

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN031219\
 Data File : VN054166.D
 Acq On : 12 Mar 2019 16:30
 Operator : JC/SP
 Sample : K1560-07
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 LOD-MDL-WATER-01-QT1-2019

Manual Integrations
 APPROVED

MMDadoda
 3/13/2019 11:48:31 AM

Quant Time: Mar 13 11:33:44 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N031219W.M
 Quant Title : SW846 8260
 QLast Update : Wed Mar 13 03:33:31 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.66	168	1479436	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	2209539	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	1899821	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	729434	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.03	65	782191	49.78	ug/l	0.00
Spiked Amount	50.000		Recovery	=	99.56%	
35) Dibromofluoromethane	7.59	113	699082	49.06	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.12%	
50) Toluene-d8	10.09	98	2558880	48.62	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.24%	
62) 4-Bromofluorobenzene	12.40	95	816764	44.35	ug/l	0.00
Spiked Amount	50.000		Recovery	=	88.70%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.85	85	7187	0.513	ug/l	96
3) Chloromethane	2.06	50	8926	0.655	ug/l #	86
4) Vinyl Chloride	2.19	62	8739	0.561	ug/l	99
5) Bromomethane	2.57	94	13897	1.289	ug/l	100
6) Chloroethane	2.71	64	6401	0.680	ug/l	96
7) Trichlorofluoromethane	3.02	101	13907	0.672	ug/l	96
8) Diethyl Ether	3.41	74	4335	0.460	ug/l	65
9) 1,1,2-Trichlorotrifluoroet	3.75	101	8947m	0.577	ug/l	
10) Methyl Iodide	3.94	142	26606	2.669	ug/l	98
11) Tert butyl alcohol	4.82	59	13549	12.579	ug/l #	70
12) 1,1-Dichloroethene	3.73	96	8080	0.526	ug/l	95
13) Acrolein	3.61	56	13633	13.357	ug/l	95
14) Allyl chloride	4.32	41	9488m	0.481	ug/l	
15) Acrylonitrile	5.00	53	10083	2.279	ug/l #	91
16) Acetone	3.82	43	15738	3.498	ug/l #	81
17) Carbon Disulfide	4.04	76	21063	0.547	ug/l	99
18) Methyl Acetate	4.32	43	4815	0.529	ug/l #	62
19) Methyl tert-butyl Ether	5.05	73	19483	0.511	ug/l	98
20) Methylene Chloride	4.55	84	9974	0.675	ug/l	92
21) trans-1,2-Dichloroethene	5.04	96	7729	0.525	ug/l	95
22) Diisopropyl ether	5.96	45	16462	0.418	ug/l #	92
23) Vinyl Acetate	5.91	43	62406	2.151	ug/l	95
24) 1,1-Dichloroethane	5.84	63	12736m	0.504	ug/l	
25) 2-Butanone	6.85	43	9347	1.770	ug/l #	82
26) 2,2-Dichloropropane	6.82	77	11279	0.508	ug/l #	66
27) cis-1,2-Dichloroethene	6.82	96	9140	0.556	ug/l	93
28) Bromochloromethane	7.19	49	4429	0.429	ug/l #	85
29) Tetrahydrofuran	7.22	42	6871m	2.024	ug/l	
30) Chloroform	7.37	83	12541	0.476	ug/l	99
31) Cyclohexane	7.66	56	34449	0.236	ug/l #	35
32) 1,1,1-Trichloroethane	7.57	97	10701	0.449	ug/l #	35
36) 1,1-Dichloropropene	7.79	75	11919	0.586	ug/l #	82
37) Ethyl Acetate	6.95	43	3941m	0.337	ug/l	
38) Carbon Tetrachloride	7.77	117	15069	0.706	ug/l #	80

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	9.08	83	13402	0.535	ug/l	93
40) Benzene	8.04	78	28173	0.484	ug/l	92
41) Methacrylonitrile	7.18	41	2680	0.401	ug/l #	74
42) 1,2-Dichloroethane	8.13	62	10212	0.519	ug/l	89
43) Isopropyl Acetate	8.17	43	9380	0.457	ug/l #	72
44) Trichloroethene	8.84	130	9406	0.520	ug/l	94
45) 1,2-Dichloropropane	9.12	63	6647	0.460	ug/l	93
46) Dibromomethane	9.21	93	5019	0.514	ug/l	96
47) Bromodichloromethane	9.41	83	8742	0.446	ug/l	86
48) Methyl methacrylate	9.20	41	4616	0.443	ug/l	94
49) 1,4-Dioxane	9.21	88	1446	9.816	ug/l #	60
51) 4-Methyl-2-Pentanone	9.99	43	25522	2.350	ug/l	99
52) Toluene	10.16	92	19128	0.518	ug/l	89
53) t-1,3-Dichloropropene	10.38	75	8833	2.365	ug/l #	59
54) cis-1,3-Dichloropropene	9.84	75	10250	0.449	ug/l	96
55) 1,1,2-Trichloroethane	10.56	97	6514	0.483	ug/l #	91
56) Ethyl methacrylate	10.43	69	7691	0.478	ug/l #	92
57) 1,3-Dichloropropane	10.71	76	9856	0.447	ug/l	95
58) 2-Chloroethyl Vinyl ether	9.70	63	12795	18.539	ug/l	99
59) 2-Hexanone	10.75	43	16727	2.315	ug/l	97
60) Dibromochloromethane	10.90	129	5851	0.386	ug/l	99
61) 1,2-Dibromoethane	11.01	107	7185	0.524	ug/l	95
64) Tetrachloroethene	10.63	164	9774	0.532	ug/l	94
65) Chlorobenzene	11.44	112	22729	0.545	ug/l	96
66) 1,1,1,2-Tetrachloroethane	11.51	131	7112	0.469	ug/l #	65
67) Ethyl Benzene	11.51	91	35128	0.508	ug/l	97
68) m/p-Xylenes	11.62	106	27852	1.031	ug/l	94
69) o-Xylene	11.94	106	14241	0.541	ug/l	100
70) Styrene	11.96	104	20945	0.507	ug/l	98
71) Bromoform	12.13	173	3638	2.651	ug/l #	89
73) Isopropylbenzene	12.25	105	36509	0.626	ug/l	99
74) N-amyl acetate	12.07	43	5156	0.398	ug/l #	84
75) 1,1,2,2-Tetrachloroethane	12.50	83	7963	0.640	ug/l	98
76) 1,2,3-Trichloropropane	12.55	75	7511m	0.700	ug/l	
77) Bromobenzene	12.53	156	9211	0.596	ug/l	95
78) n-propylbenzene	12.59	91	39294	0.621	ug/l	99
79) 2-Chlorotoluene	12.67	91	22953	0.603	ug/l	97
80) 1,3,5-Trimethylbenzene	12.73	105	25967	0.535	ug/l	93
81) trans-1,4-Dichloro-2-buten	12.30	75	1455m	0.464	ug/l	
82) 4-Chlorotoluene	12.77	91	24570	0.646	ug/l	97
83) tert-Butylbenzene	12.99	119	24753	0.554	ug/l	96
84) 1,2,4-Trimethylbenzene	13.04	105	28605	0.601	ug/l	100
85) sec-Butylbenzene	13.17	105	38654	0.667	ug/l	99
86) p-Isopropyltoluene	13.29	119	32254	0.634	ug/l	96
87) 1,3-Dichlorobenzene	13.28	146	22512	0.865	ug/l	99
88) 1,4-Dichlorobenzene	13.36	146	14533m	0.569	ug/l	
89) n-Butylbenzene	13.62	91	24534	0.635	ug/l	99
90) Hexachloroethane	13.87	117	3794m	0.451	ug/l	
91) 1,2-Dichlorobenzene	13.65	146	16176	0.636	ug/l	96
92) 1,2-Dibromo-3-Chloropropan	14.26	75	1199	0.623	ug/l	77

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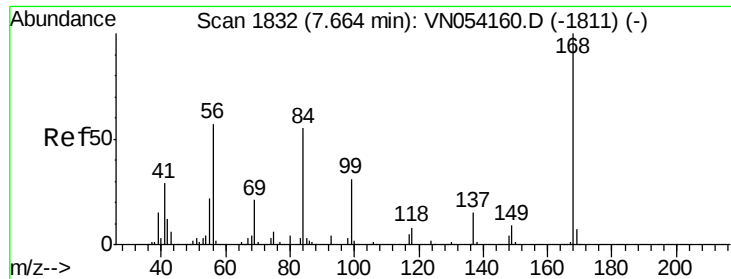
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.91	180	15671	3.486	ug/l	93
94) Hexachlorobutadiene	15.01	225	13985	1.443	ug/l	97
95) Naphthalene	15.13	128	25075	4.199	ug/l	100
96) 1,2,3-Trichlorobenzene	15.32	180	11410	0.844	ug/l	100

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. 0.00 min

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Tgt Ion:168 Resp: 1479436

Ion Ratio Lower Upper

168 100

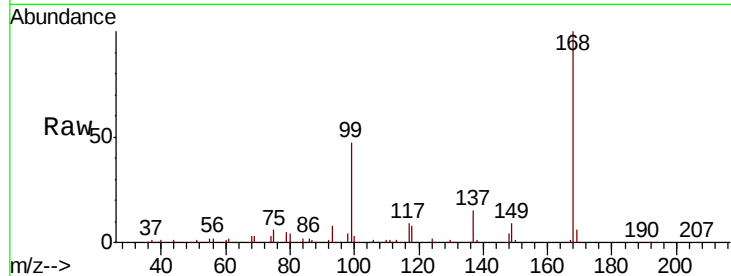
99 47.2 37.1 55.7

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Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNC

7.66

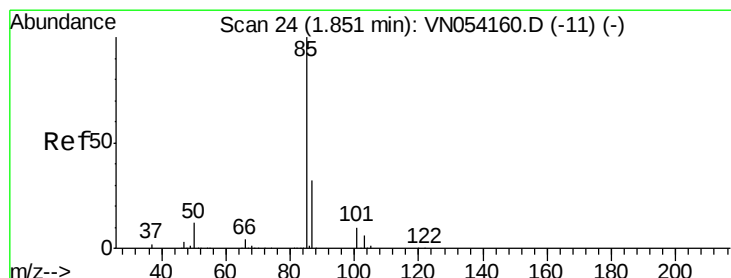
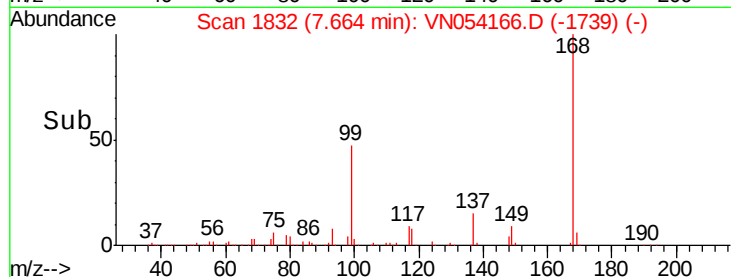
600000

400000

200000

0

Time--> 7.50 7.60 7.70 7.80



#2

Dichlorodifluoromethane

Concen: 0.513 ug/l

RT: 1.85 min Scan# 24

Delta R.T. 0.00 min

Lab File: VN054166.D

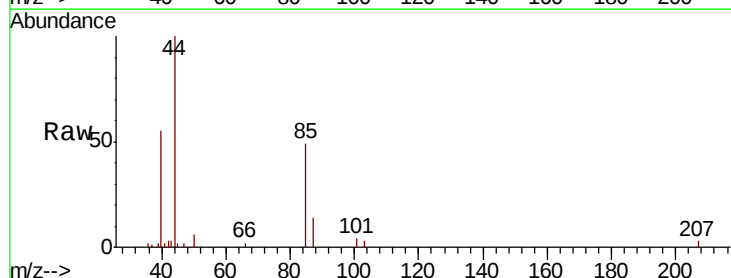
Acq: 12 Mar 2019 16:30

Tgt Ion: 85 Resp: 7187

Ion Ratio Lower Upper

85 100

87 29.5 15.9 47.7



Abundance Ion 84.90 (84.60 to 85.60): VNC

Ion 86.90 (86.60 to 87.60): VNC

1.85

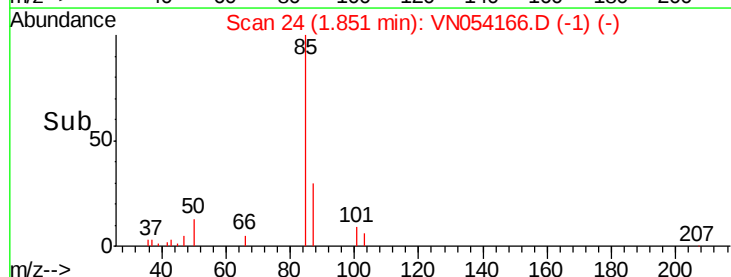
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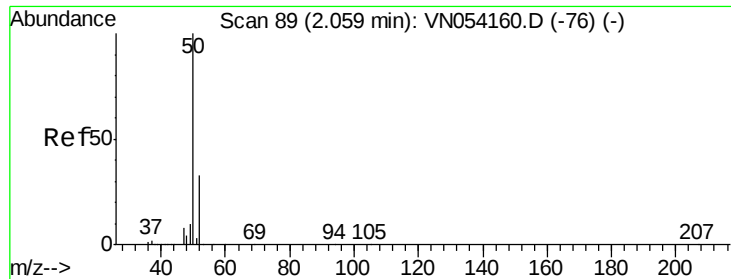
4000

2000

0

Time--> 1.80 1.85 1.90





#3

Chloromethane

Concen: 0.655 ug/l

RT: 2.06 min Scan# 88

Delta R.T. -0.00 min

Lab File: VN054166.D

Acq: 12 Mar 2019 16:30

Instrument :

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Tgt Ion: 50 Resp: 8926

Ion Ratio Lower Upper

50 100

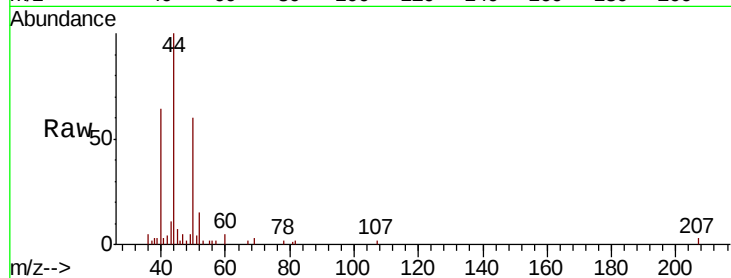
52 24.9 26.4 39.6#

Manual Integrations

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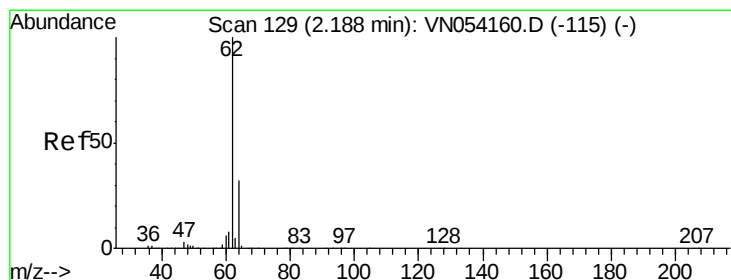
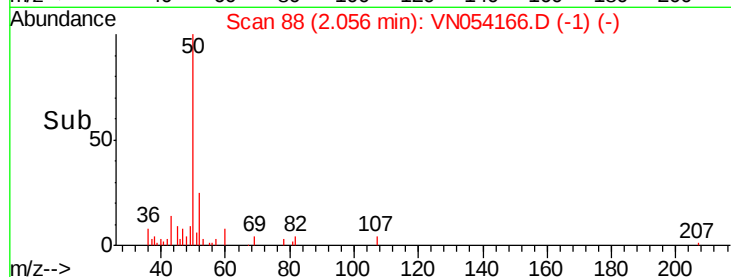
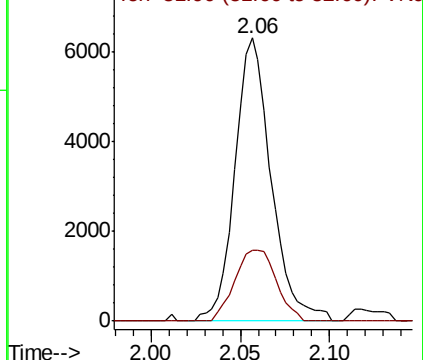
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Abundance Ion 49.90 (49.60 to 50.60): VN0

Ion 51.90 (51.60 to 52.60): VN0



#4

Vinyl Chloride

Concen: 0.561 ug/l

RT: 2.19 min Scan# 128

Delta R.T. -0.00 min

Lab File: VN054166.D

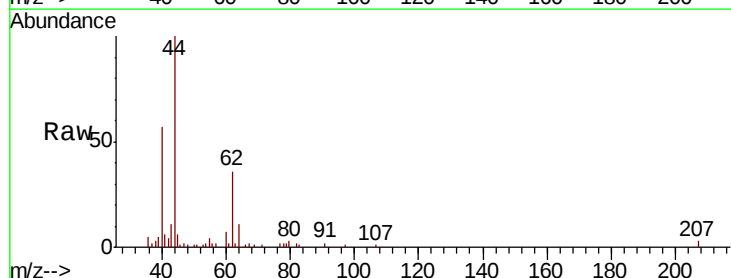
Acq: 12 Mar 2019 16:30

Tgt Ion: 62 Resp: 8739

Ion Ratio Lower Upper

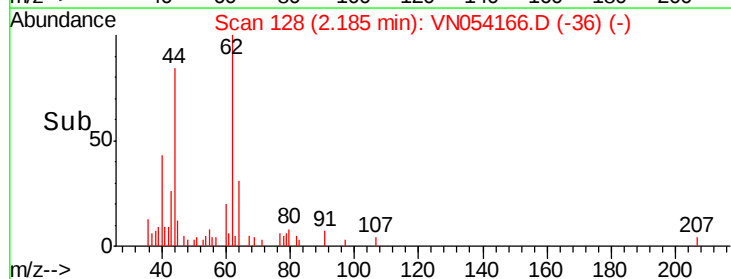
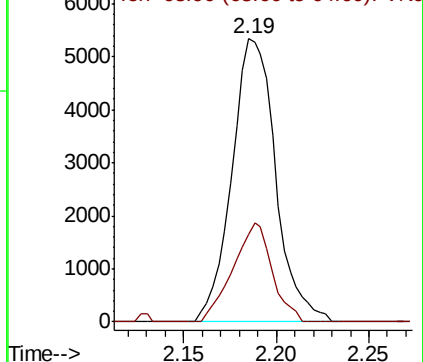
62 100

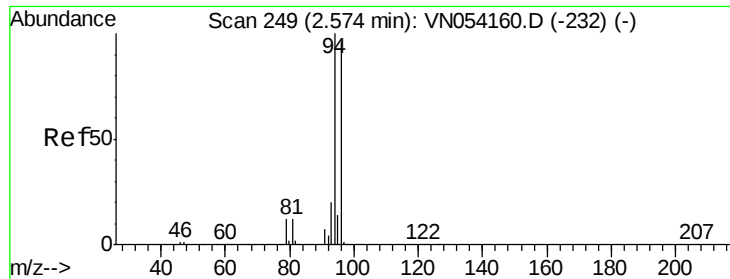
64 31.1 25.5 38.3



Abundance Ion 61.90 (61.60 to 62.60): VN0

Ion 63.90 (63.60 to 64.60): VN0





#5

Bromomethane

Concen: 1.289 ug/l

RT: 2.57 min Scan# 249

Delta R.T. 0.00 min

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Tgt Ion: 94 Resp: 13897

Ion Ratio Lower Upper

94 100

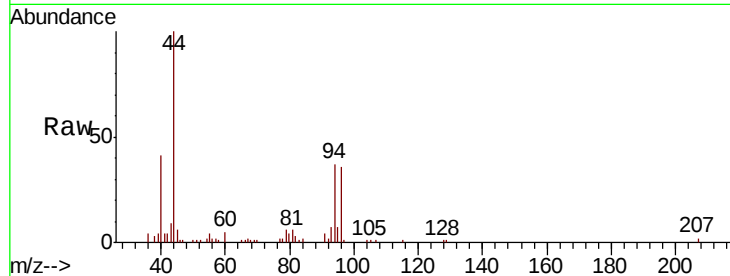
96 96.5 77.0 115.4

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Abundance Ion 93.90 (93.60 to 94.60): VN0

Ion 95.90 (95.60 to 96.60): VN0

2.57

8000

6000

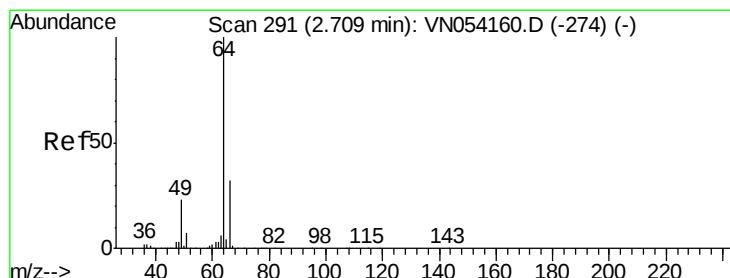
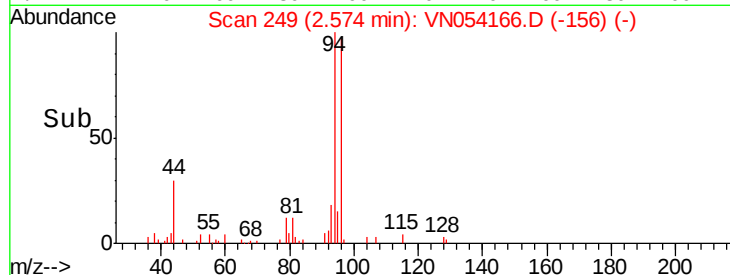
4000

2000

0

2.50 2.55 2.60 2.65

Time-->



#6

Chloroethane

Concen: 0.680 ug/l

RT: 2.71 min Scan# 291

Delta R.T. 0.00 min

Lab File: VN054166.D

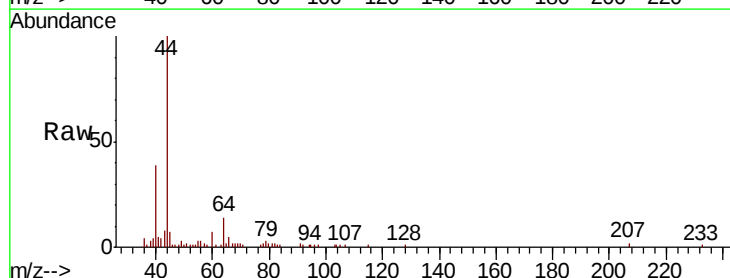
Acq: 12 Mar 2019 16:30

Tgt Ion: 64 Resp: 6401

Ion Ratio Lower Upper

64 100

66 34.6 25.7 38.5



Abundance Ion 63.90 (63.60 to 64.60): VN0

Ion 65.90 (65.60 to 66.60): VN0

2.71

3000

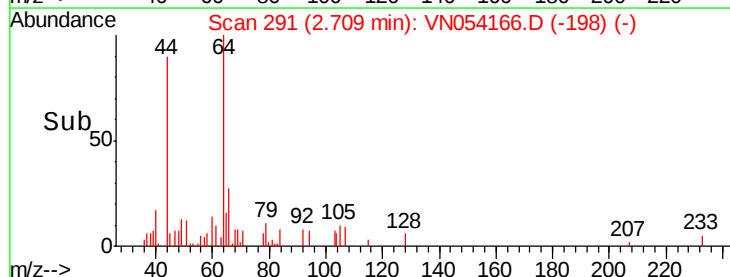
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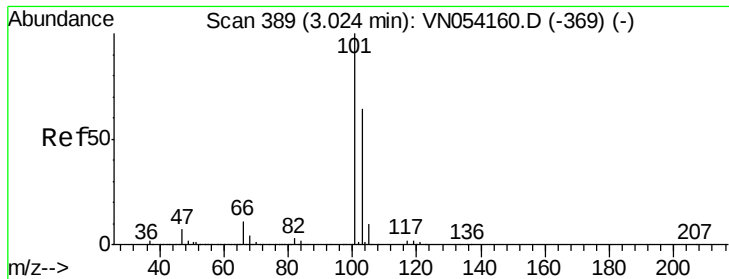
1000

0

2.65 2.70 2.75 2.80

Time-->





#7

Trichlorofluoromethane

Concen: 0.672 ug/l

RT: 3.02 min Scan# 389

Delta R.T. 0.00 min

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Tgt Ion:101 Resp: 13907

Ion Ratio Lower Upper

101 100

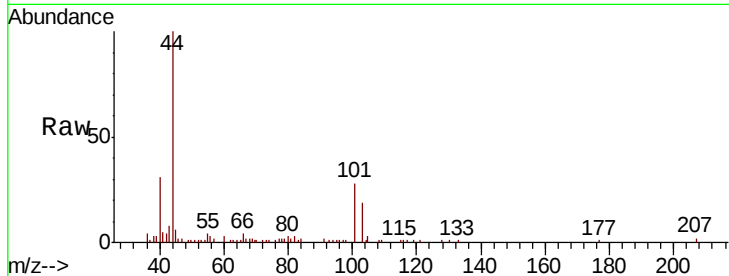
103 67.5 51.4 77.2

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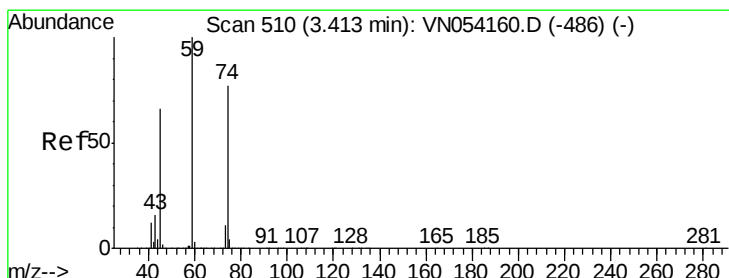
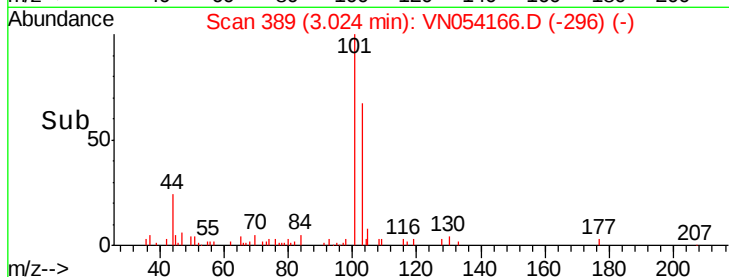
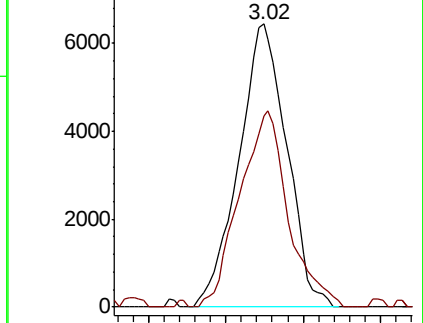
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Abundance Ion 100.90 (100.60 to 101.60): V

Ion 102.80 (102.50 to 103.50): V



#8

Diethyl Ether

Concen: 0.460 ug/l

RT: 3.41 min Scan# 510

Delta R.T. 0.00 min

Lab File: VN054166.D

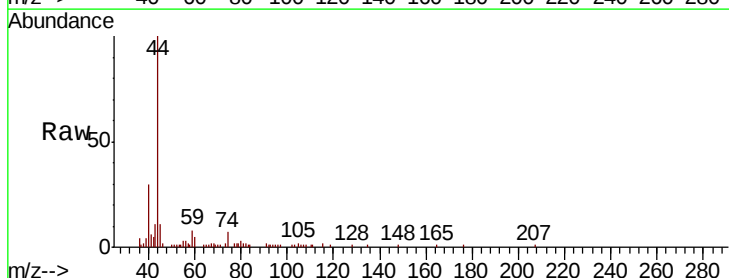
Acq: 12 Mar 2019 16:30

Tgt Ion: 74 Resp: 4335

Ion Ratio Lower Upper

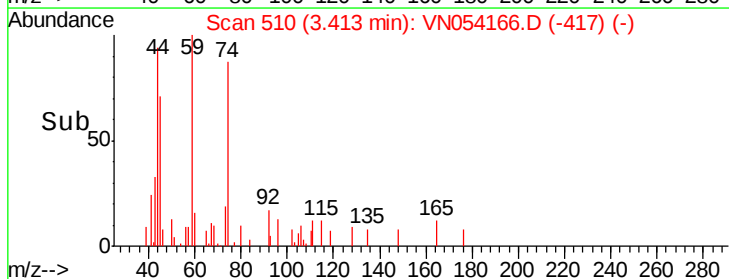
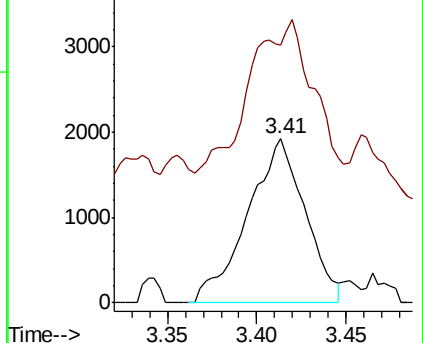
74 100

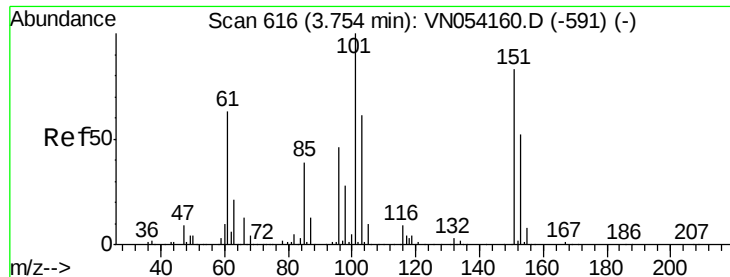
45 54.1 43.1 129.4



Abundance Ion 74.00 (73.70 to 74.70): V

Ion 45.00 (44.70 to 45.70): V





#9

1,1,2-Trichlorotrifluoroethane

Concen: 0.577 ug/l m

RT: 3.75 min Scan# 616

Delta R.T. 0.00 min

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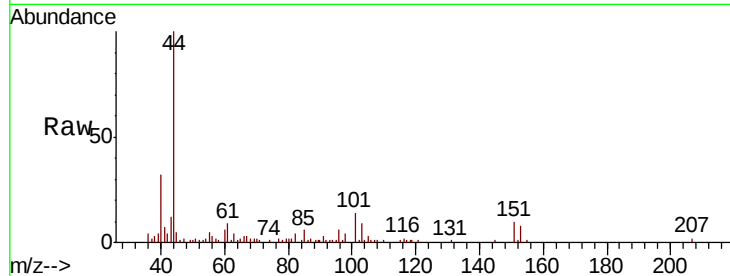
ClientSampleId :

LOD-MDL-WATER-01-QT1-2019

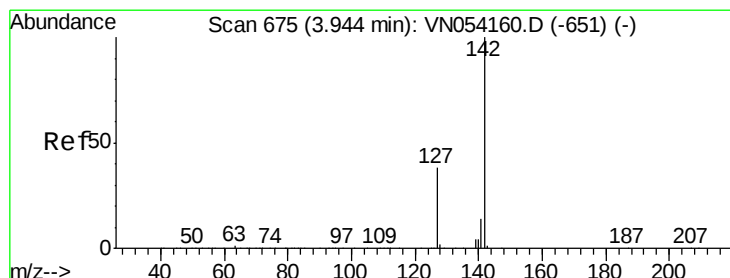
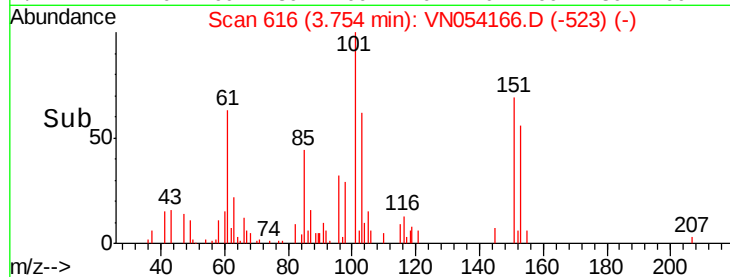
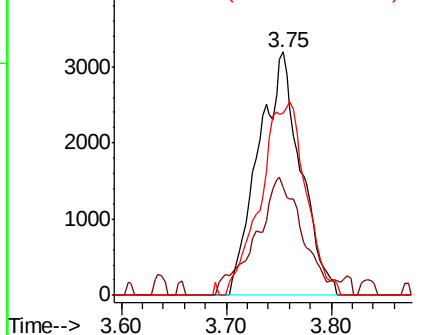
Tgt Ion:	101	Resp:	8947
Ion Ratio	Lower	Upper	
101	100		
85	52.7	32.4	48.6#
151	85.0	68.2	102.2

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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: 2.669 ug/l

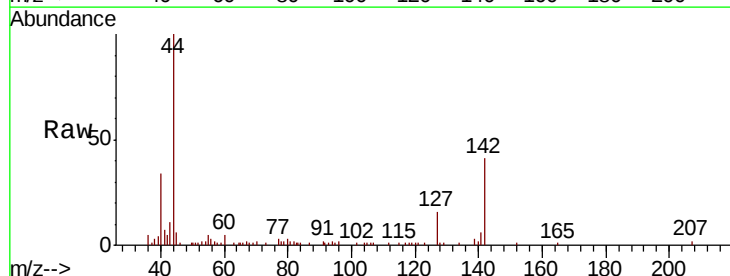
RT: 3.94 min Scan# 675

Delta R.T. 0.00 min

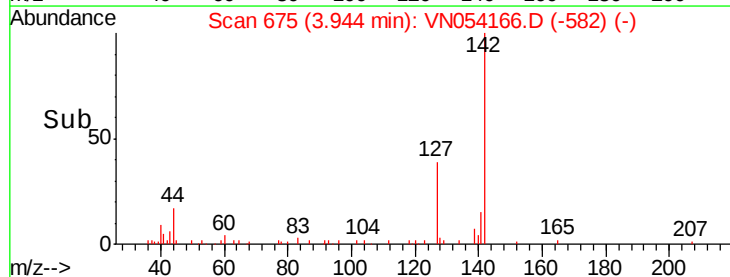
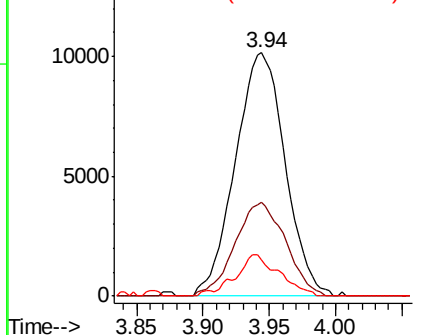
Lab File: VN054166.D

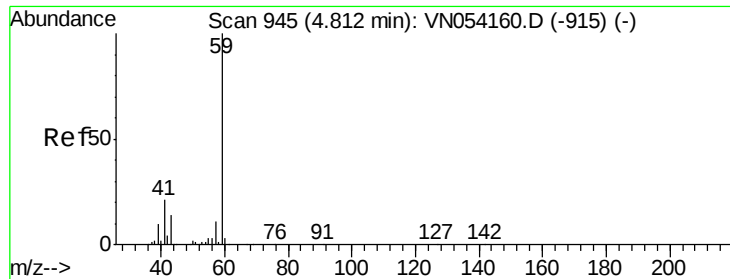
Acq: 12 Mar 2019 16:30

Tgt Ion:	142	Resp:	26606
Ion Ratio	Lower	Upper	
142	100		
127	39.1	30.3	45.5
141	15.0	11.2	16.8



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





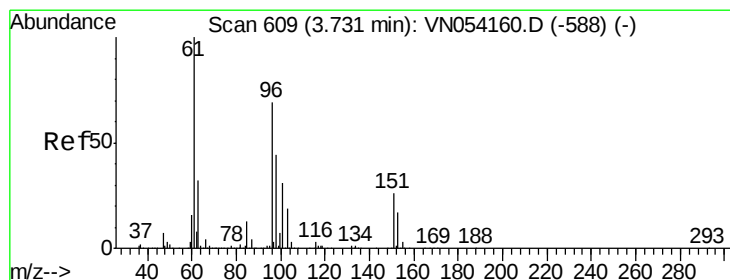
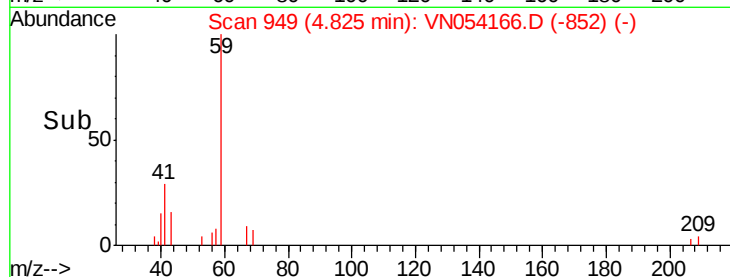
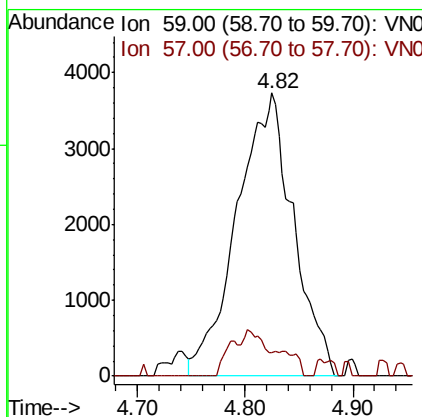
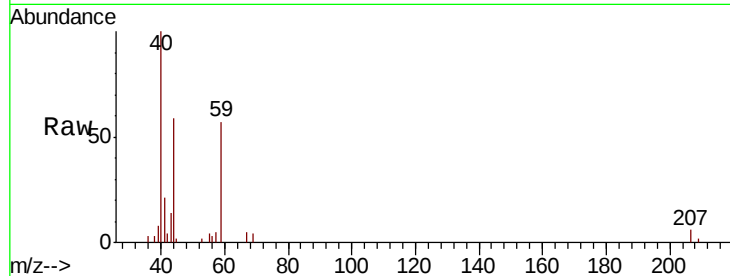
#11
Tert butyl alcohol
Concen: 12.579 ug/l
RT: 4.82 min Scan# 949
Delta R.T. 0.01 min
Lab File: VN054166.D
Acq: 12 Mar 2019 16:30

Instrument :
MSVOA_N
ClientSampleId :
LOD-MDL-WATER-01-QT1-2019

Tgt Ion: 59 Resp: 13549
Ion Ratio Lower Upper
59 100
57 0.0 9.0 13.6#

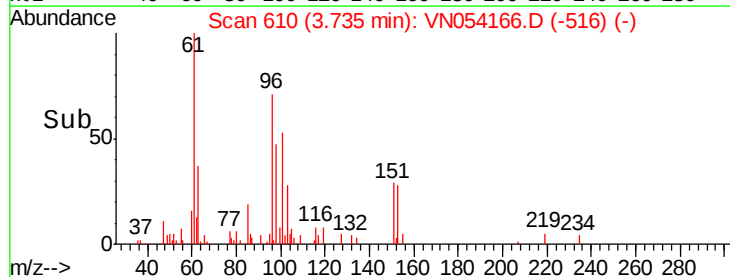
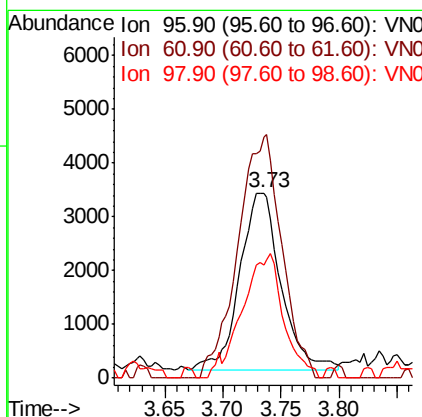
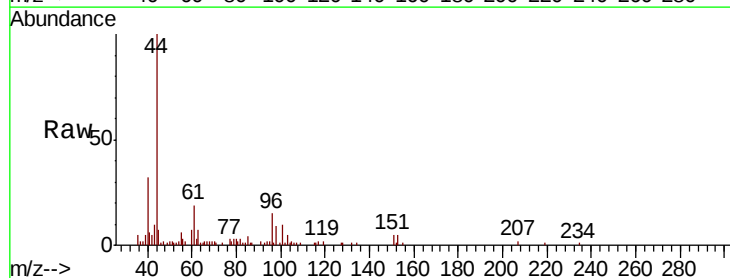
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#12
1,1-Dichloroethene
Concen: 0.526 ug/l
RT: 3.73 min Scan# 610
Delta R.T. 0.00 min
Lab File: VN054166.D
Acq: 12 Mar 2019 16:30

Tgt Ion: 96 Resp: 8080
Ion Ratio Lower Upper
96 100
61 136.7 116.5 174.7
98 63.8 51.0 76.4





#13

Acrolein

Concen: 13.357 ug/l

RT: 3.61 min Scan# 570

Delta R.T. 0.00 min

Lab File: VN054166.D

Acq: 12 Mar 2019 16:30

Instrument :

MSVOA_N

ClientSampleId :

LOD-MDL-WATER-01-QT1-2019

Tgt Ion: 56 Resp: 13633

Ion Ratio Lower Upper

56 100

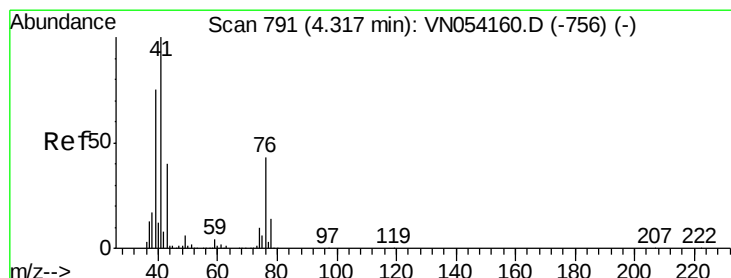
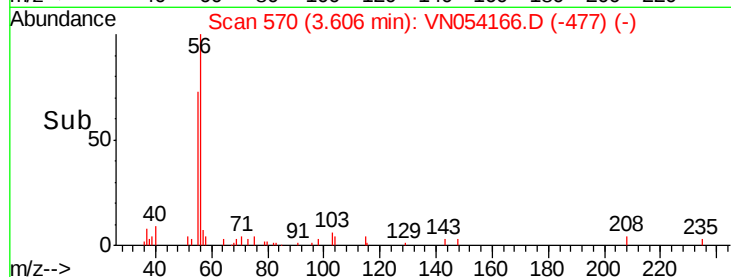
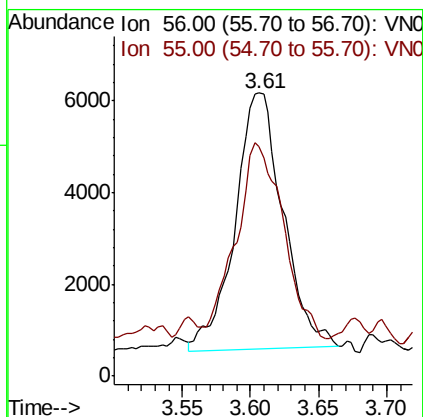
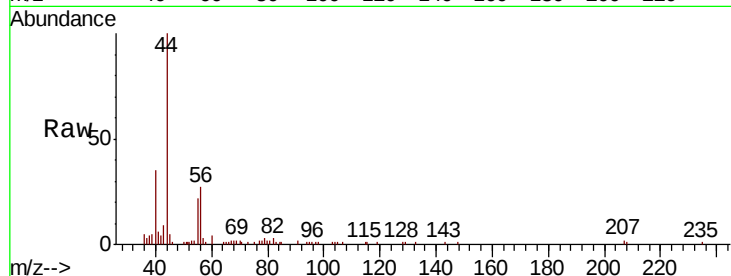
55 75.2 56.7 85.1

Manual Integrations

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#14

Allyl chloride

Concen: 0.481 ug/l m

RT: 4.32 min Scan# 793

Delta R.T. 0.01 min

Lab File: VN054166.D

Acq: 12 Mar 2019 16:30

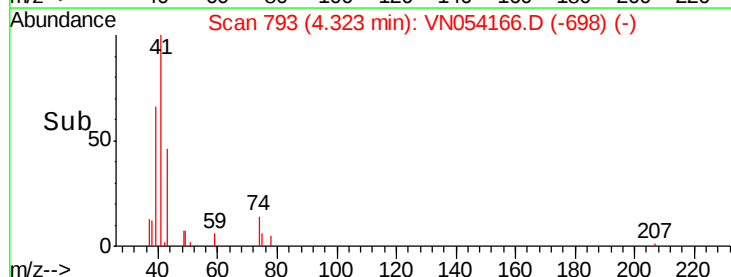
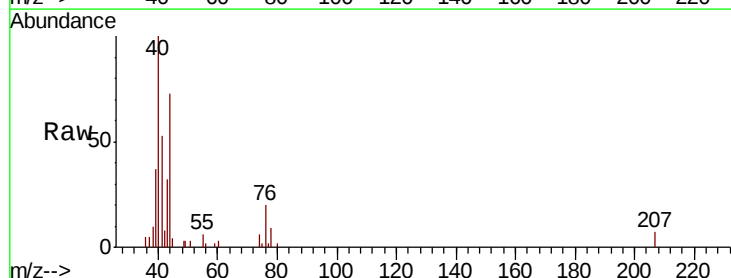
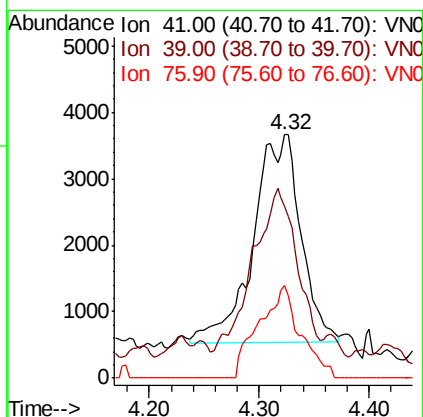
Tgt Ion: 41 Resp: 9488

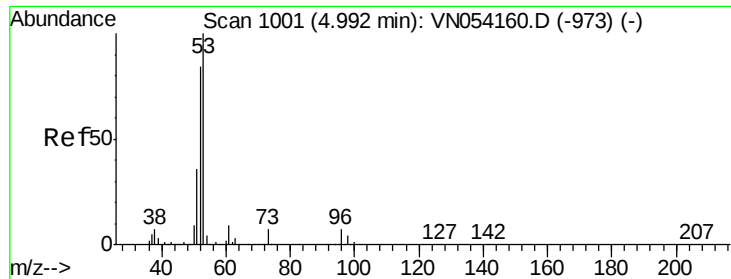
Ion Ratio Lower Upper

41 100

39 71.5 58.2 87.4

76 38.4 31.7 47.5





#15

Acrylonitrile

Concen: 2.279 ug/l

RT: 5.00 min Scan# 1004

Delta R.T. 0.01 min

Lab File: VN054166.D

Acq: 12 Mar 2019 16:30

Instrument :

MSVOA_N

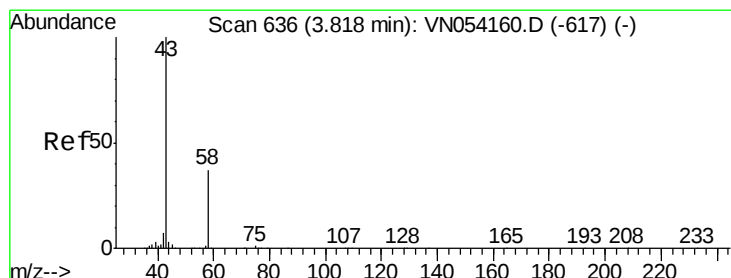
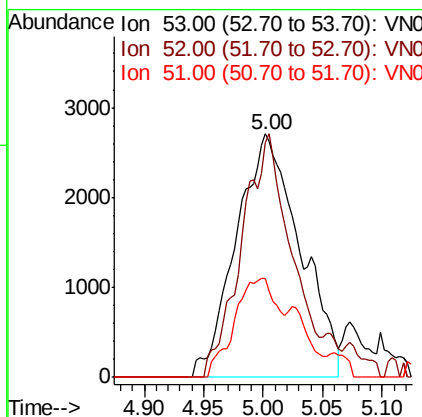
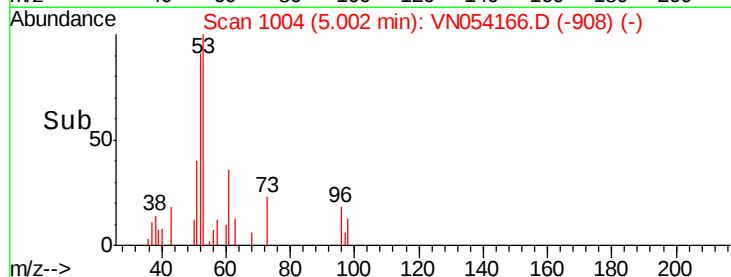
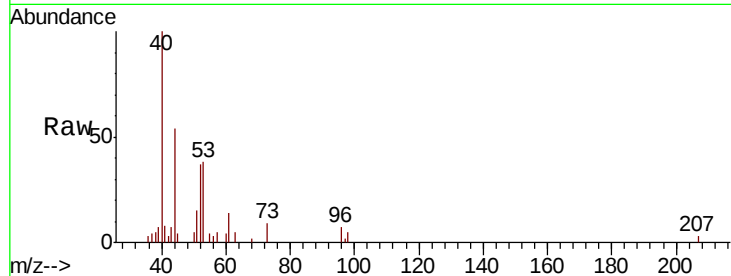
ClientSampleId :

LOD-MDL-WATER-01-QT1-2019

Tgt Ion:	53	Resp:	10083
Ion Ratio	Lower	Upper	
53	100		
52	77.4	66.4	99.6
51	27.7	29.6	44.4#

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#16

Acetone

Concen: 3.498 ug/l

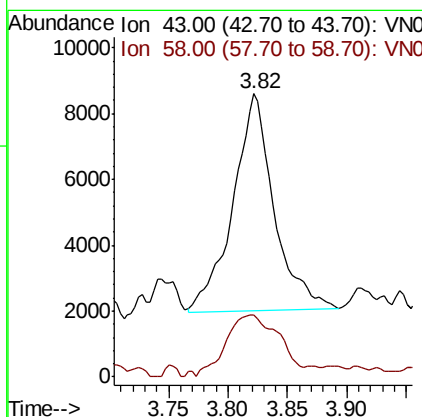
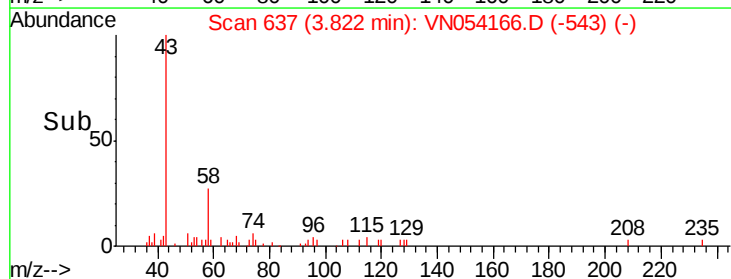
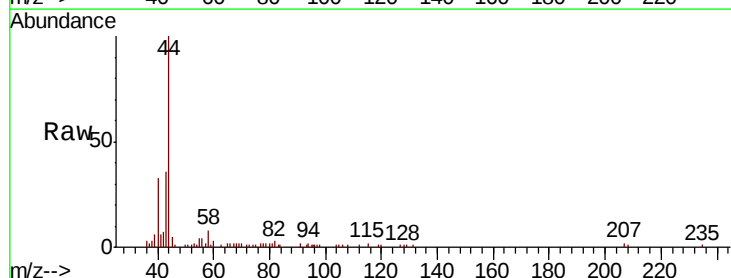
RT: 3.82 min Scan# 637

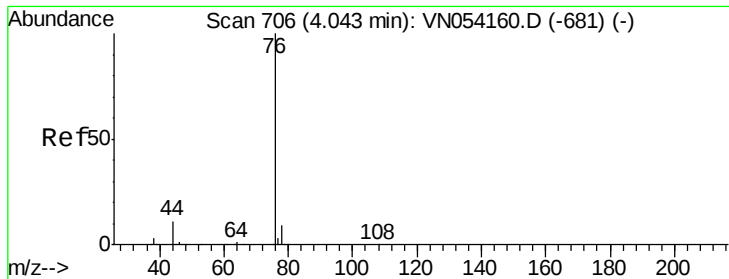
Delta R.T. 0.00 min

Lab File: VN054166.D

Acq: 12 Mar 2019 16:30

Tgt Ion:	43	Resp:	15738
Ion Ratio	Lower	Upper	
43	100		
58	26.1	29.9	44.9#





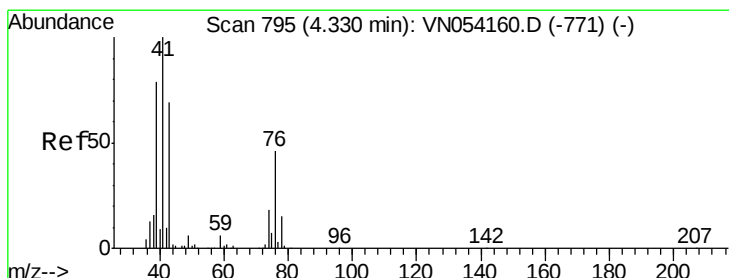
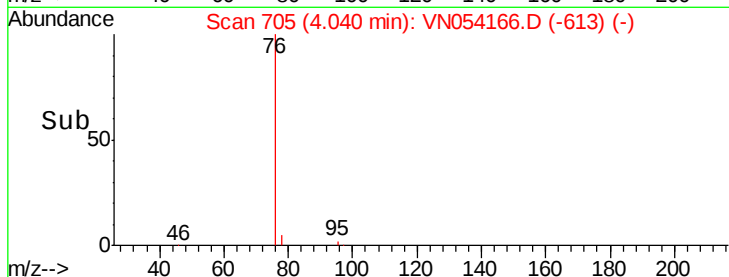
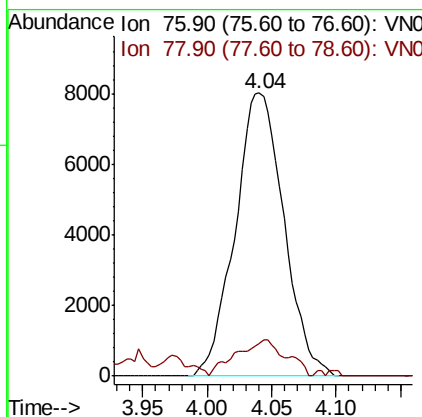
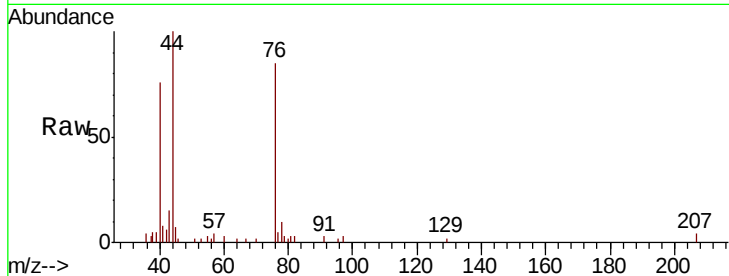
#17
Carbon Disulfide
Concen: 0.547 ug/l
RT: 4.04 min Scan# 705
Delta R.T. -0.00 min
Lab File: VN054166.D
Acq: 12 Mar 2019 16:30

Instrument :
MSVOA_N
ClientSampleId :
LOD-MDL-WATER-01-QT1-2019

Tgt Ion: 76 Resp: 21063
Ion Ratio Lower Upper
76 100
78 9.6 7.5 11.3

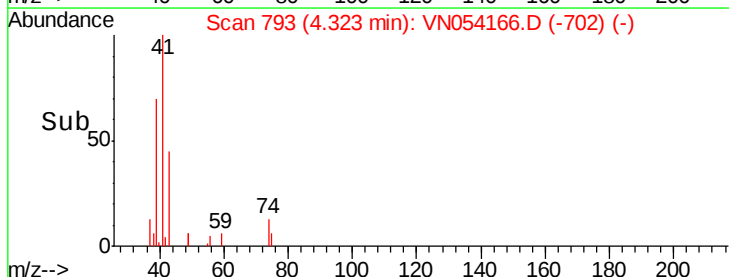
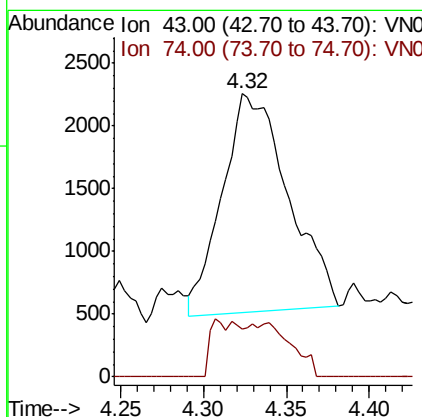
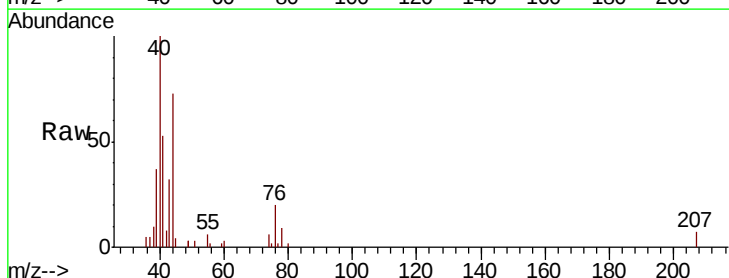
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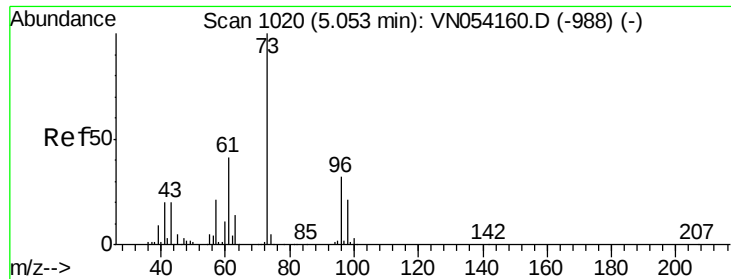
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#18
Methyl Acetate
Concen: 0.529 ug/l
RT: 4.32 min Scan# 793
Delta R.T. -0.01 min
Lab File: VN054166.D
Acq: 12 Mar 2019 16:30

Tgt Ion: 43 Resp: 4815
Ion Ratio Lower Upper
43 100
74 6.5 20.8 31.2#





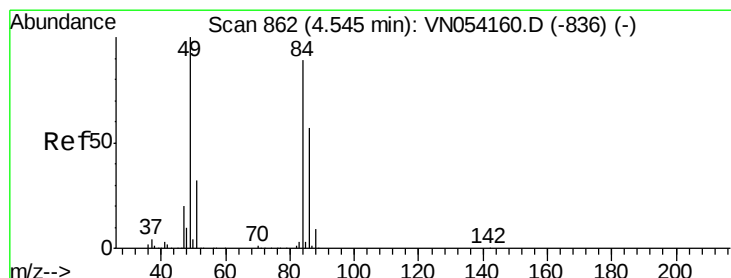
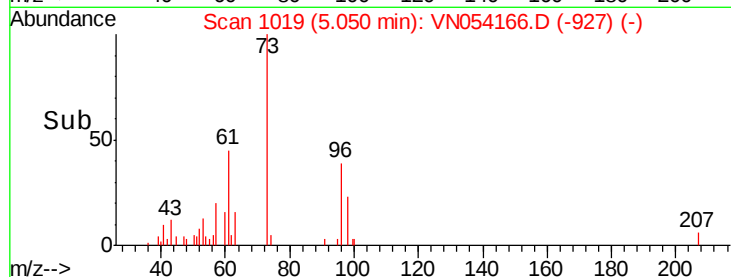
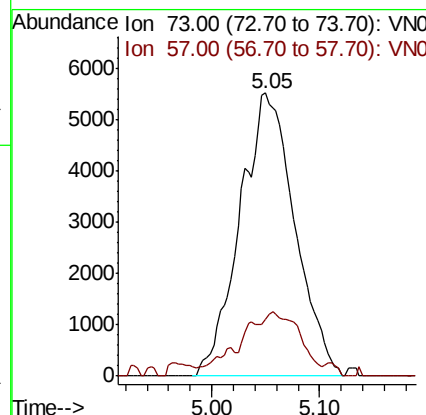
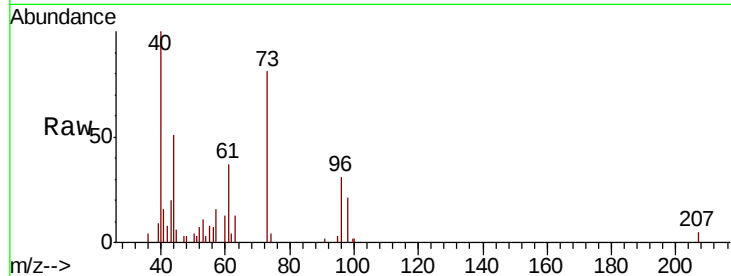
#19
Methyl tert-butyl Ether
Concen: 0.511 ug/l
RT: 5.05 min Scan# 1019
Delta R.T. -0.00 min
Lab File: VN054166.D
Acq: 12 Mar 2019 16:30

Instrument :
MSVOA_N
ClientSampleId :
LOD-MDL-WATER-01-QT1-2019

Tgt Ion: 73 Resp: 19483
Ion Ratio Lower Upper
73 100
57 20.1 16.8 25.2

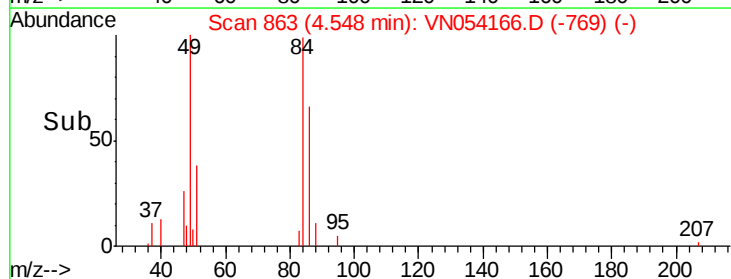
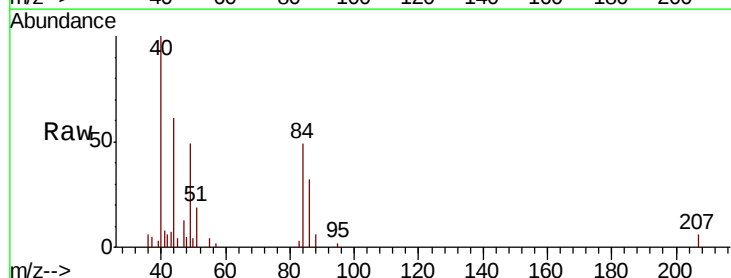
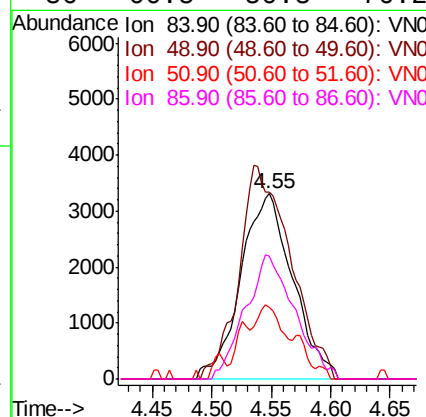
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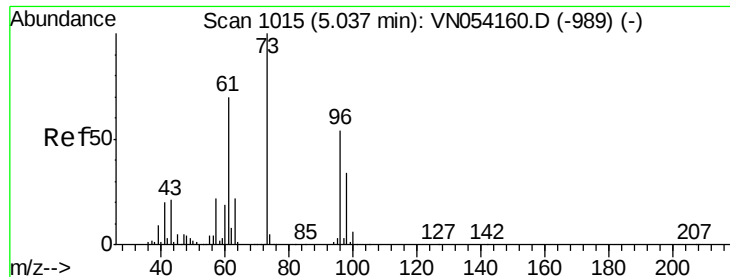
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#20
Methylene Chloride
Concen: 0.675 ug/l
RT: 4.55 min Scan# 863
Delta R.T. 0.00 min
Lab File: VN054166.D
Acq: 12 Mar 2019 16:30

Tgt Ion: 84 Resp: 9974
Ion Ratio Lower Upper
84 100
49 101.1 89.7 134.5
51 38.8 28.2 42.4
86 66.5 50.8 76.2





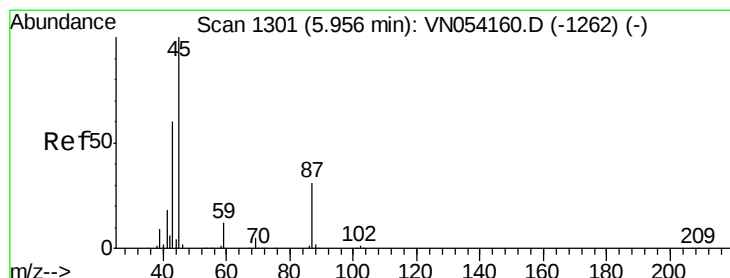
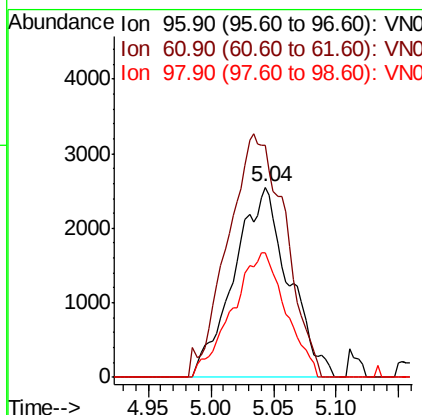
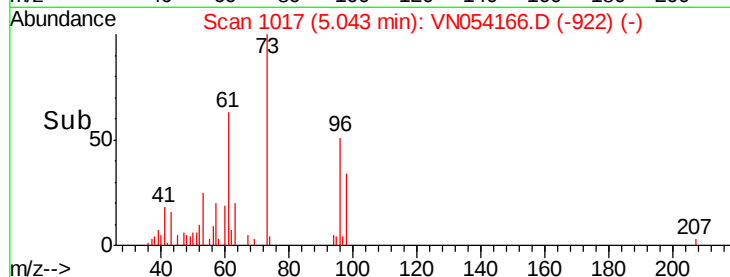
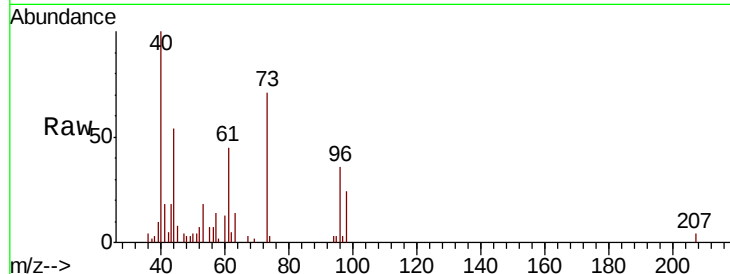
#21
trans-1,2-Dichloroethene
Concen: 0.525 ug/l
RT: 5.04 min Scan# 1017
Delta R.T. 0.01 min
Lab File: VN054166.D
Acq: 12 Mar 2019 16:30

Instrument :
MSVOA_N
ClientSampleId :
LOD-MDL-WATER-01-QT1-2019

Tgt Ion	Ratio	Lower	Upper
96	100		
61	122.4	102.8	154.2
98	65.9	50.0	75.0

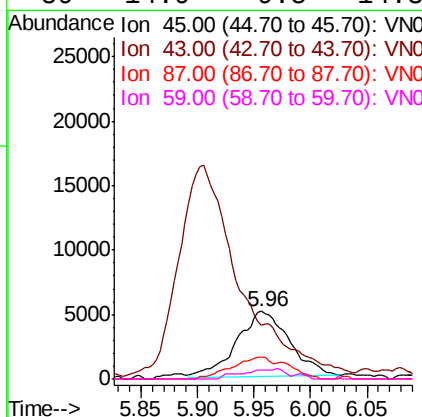
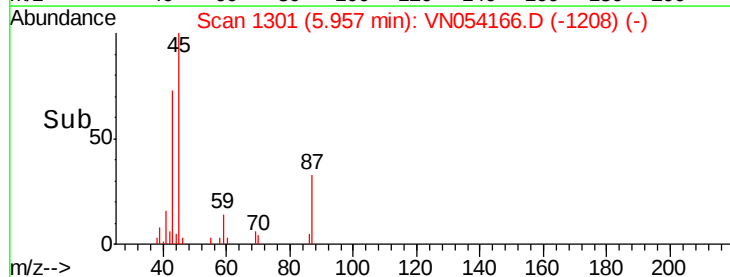
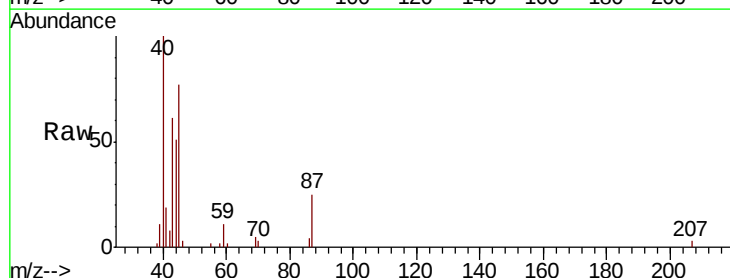
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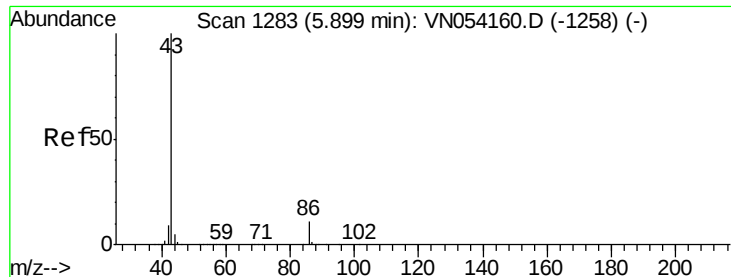
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#22
Diisopropyl ether
Concen: 0.418 ug/l
RT: 5.96 min Scan# 1301
Delta R.T. 0.00 min
Lab File: VN054166.D
Acq: 12 Mar 2019 16:30

Tgt Ion	Ratio	Lower	Upper
45	100		
43	66.9	48.2	72.2
87	35.1	24.9	37.3
59	14.9	9.5	14.3#





#23

Vinyl Acetate

Concen: 2.151 ug/l

RT: 5.91 min Scan# 1285

Delta R.T. 0.01 min

Lab File: VN054166.D

Acq: 12 Mar 2019 16:30

Instrument :

MSVOA_N

ClientSampleId :

LOD-MDL-WATER-01-QT1-2019

Tgt Ion: 43 Resp: 62406

Ion Ratio Lower Upper

43 100

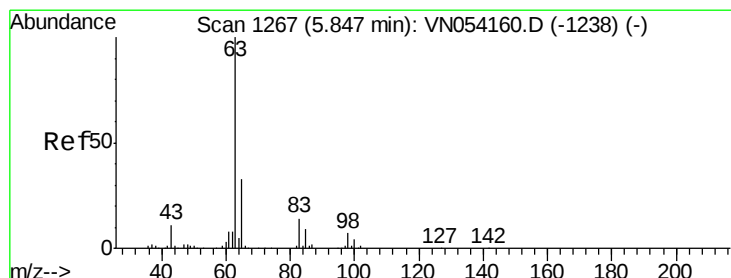
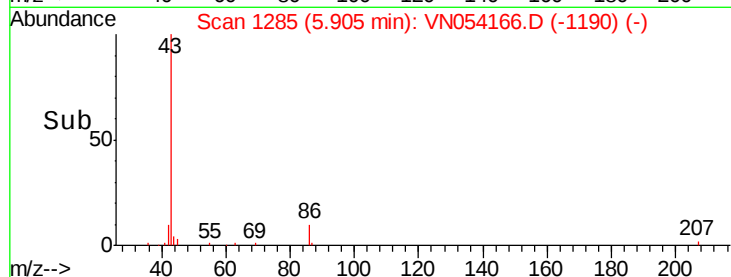
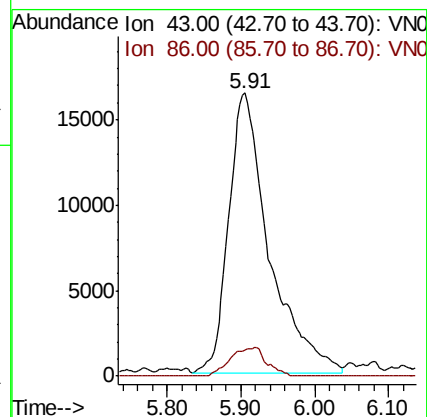
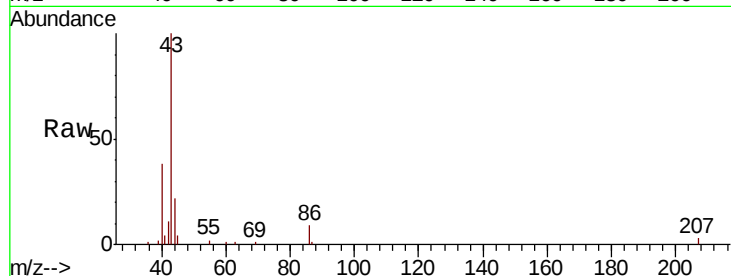
86 9.5 9.1 13.7

Manual Integrations

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#24

1,1-Dichloroethane

Concen: 0.504 ug/l m

RT: 5.84 min Scan# 1266

Delta R.T. -0.00 min

Lab File: VN054166.D

Acq: 12 Mar 2019 16:30

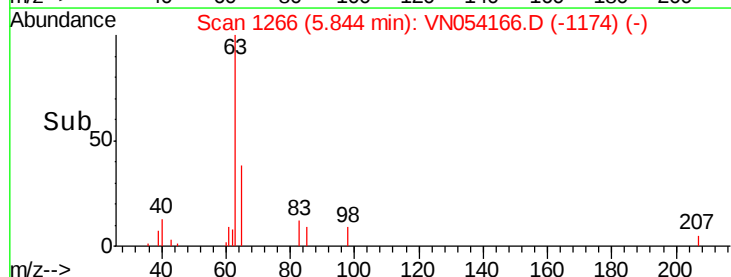
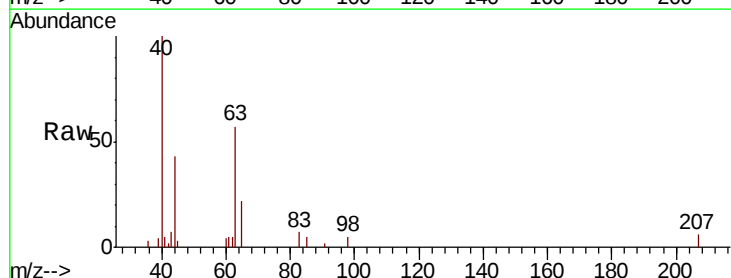
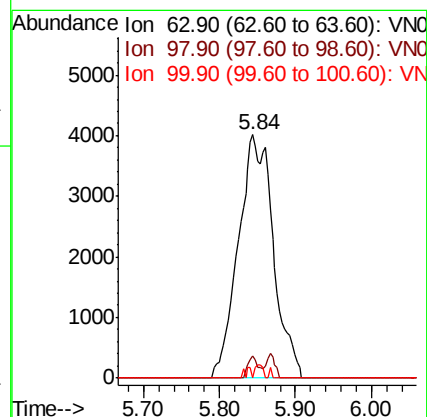
Tgt Ion: 63 Resp: 12736

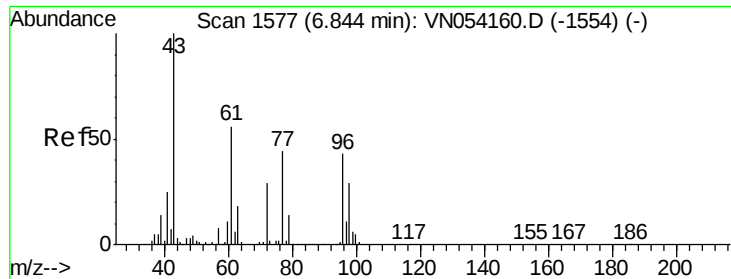
Ion Ratio Lower Upper

63 100

98 9.0 3.5 10.5

100 0.0 2.0 6.0#





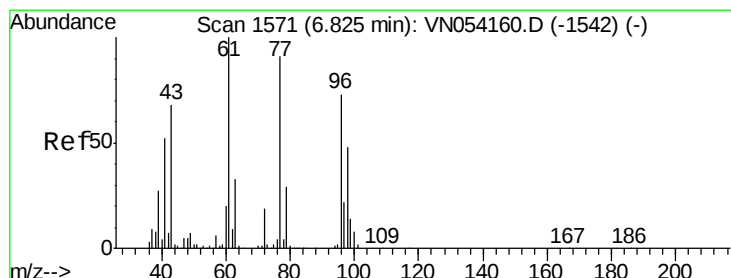
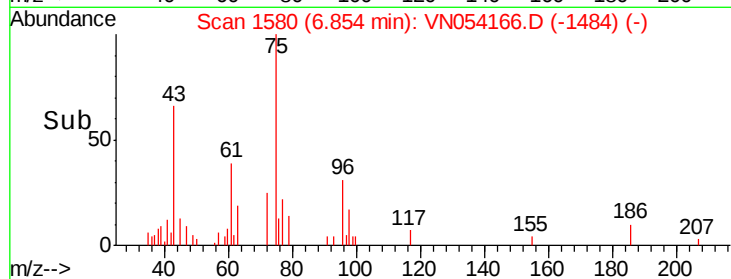
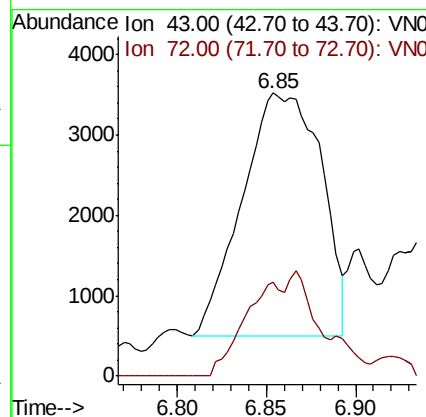
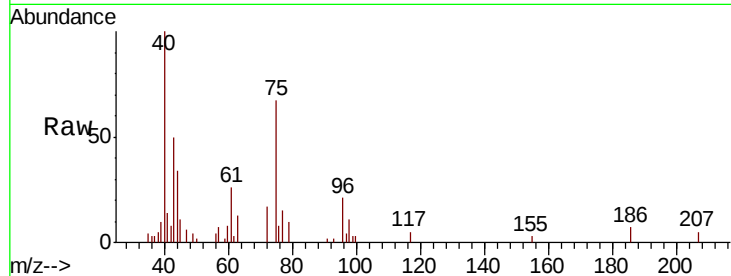
#25
2-Butanone
Concen: 1.770 ug/l
RT: 6.85 min Scan# 1580
Delta R.T. 0.01 min
Lab File: VN054166.D
Acq: 12 Mar 2019 16:30

Instrument :
MSVOA_N
ClientSampleId :
LOD-MDL-WATER-01-QT1-2019

Tgt Ion: 43 Resp: 9347
Ion Ratio Lower Upper
43 100
72 38.5 23.0 34.6#

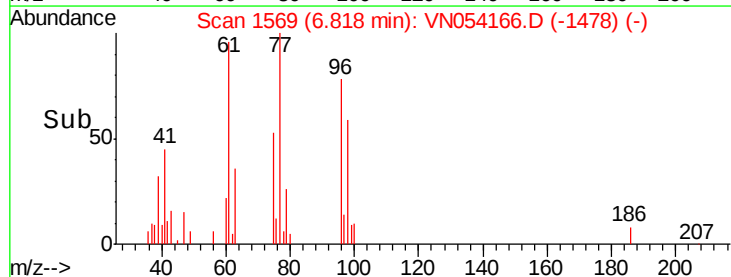
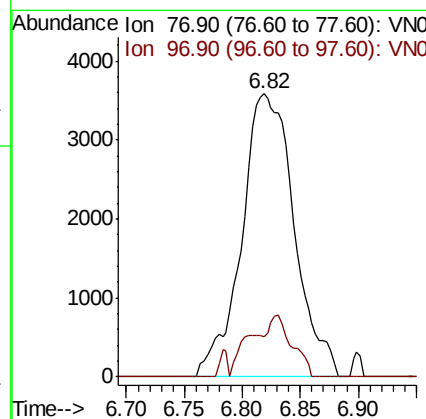
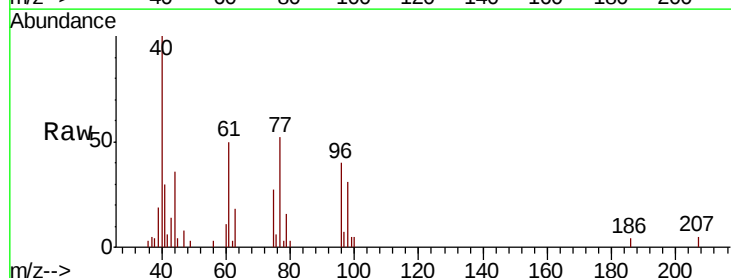
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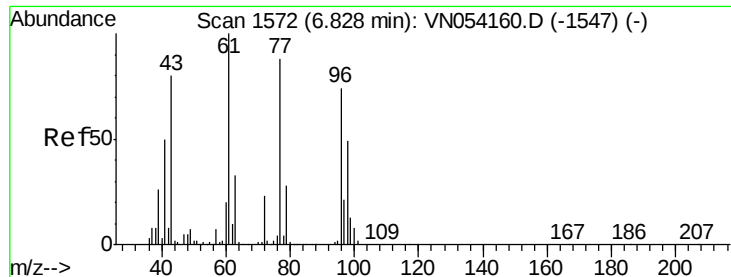
MMDadoda
3/13/2019 11:48:31 AM



#26
2,2-Dichloropropane
Concen: 0.508 ug/l
RT: 6.82 min Scan# 1569
Delta R.T. -0.01 min
Lab File: VN054166.D
Acq: 12 Mar 2019 16:30

Tgt Ion: 77 Resp: 11279
Ion Ratio Lower Upper
77 100
97 6.9 11.9 35.9#





#27

cis-1,2-Dichloroethene

Concen: 0.556 ug/l

RT: 6.82 min Scan# 1571

Delta R.T. -0.00 min

Lab File: VN054166.D

Acq: 12 Mar 2019 16:30

Instrument :

MSVOA_N

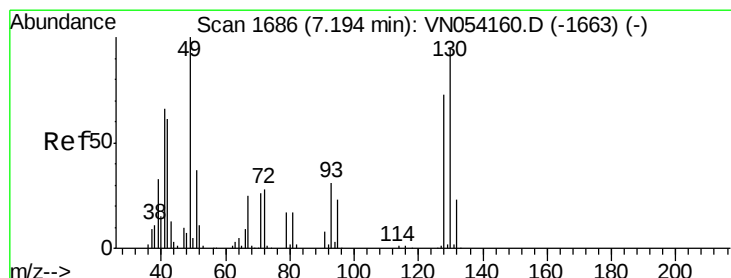
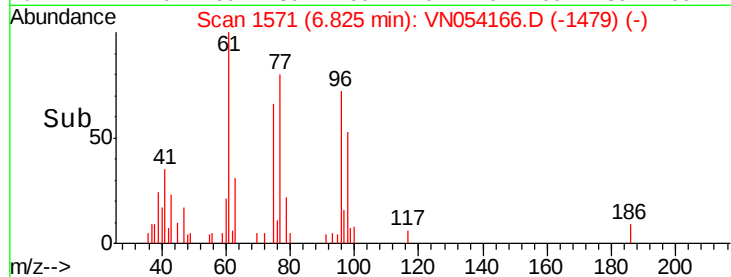
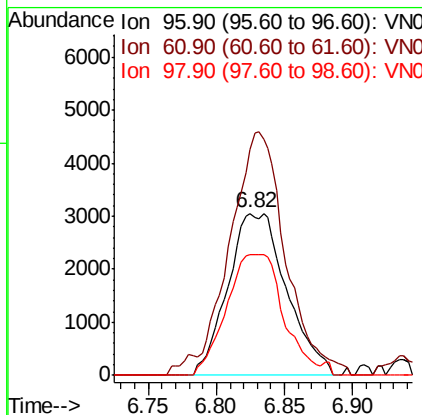
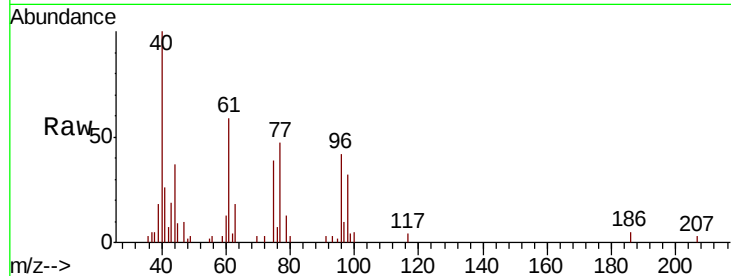
ClientSampleId :

LOD-MDL-WATER-01-QT1-2019

Tgt Ion:	96	Resp:	9140
Ion	Ratio	Lower	Upper
96	100		
61	144.1	0.0	273.0
98	72.0	0.0	130.6

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3/13/2019 11:48:31 AM



#28

Bromochloromethane

Concen: 0.429 ug/l

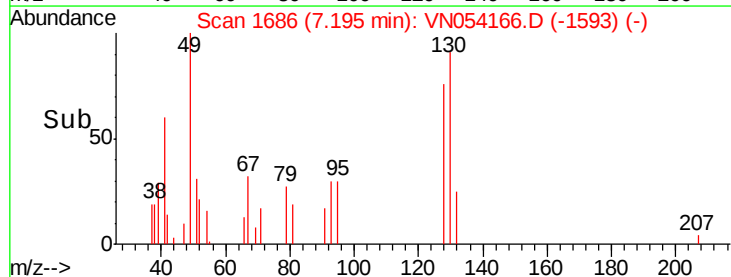
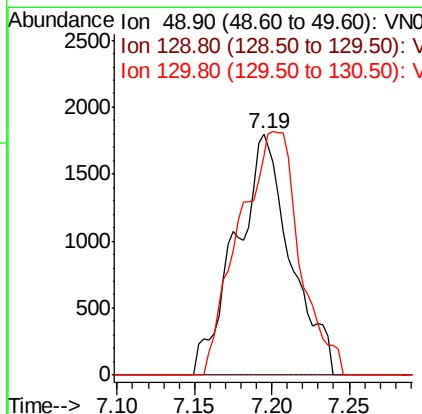
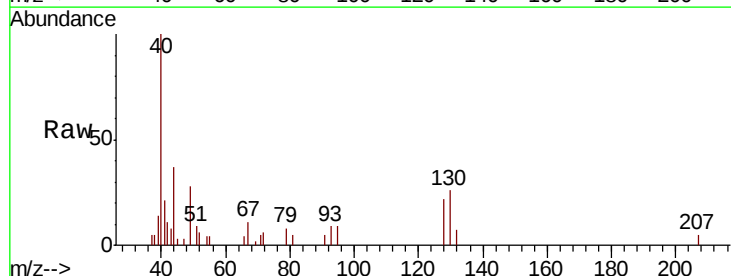
RT: 7.19 min Scan# 1686

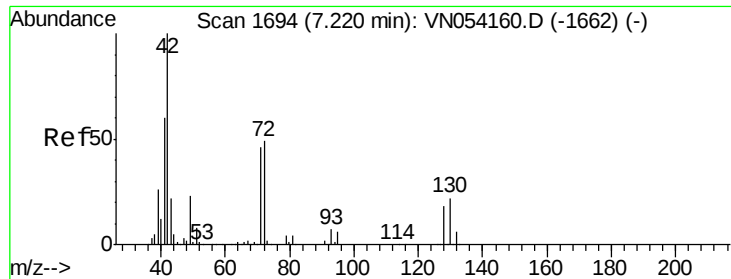
Delta R.T. 0.00 min

Lab File: VN054166.D

Acq: 12 Mar 2019 16:30

Tgt Ion:	49	Resp:	4429
Ion	Ratio	Lower	Upper
49	100		
129	0.0	0.0	4.6
130	111.2	76.7	115.1





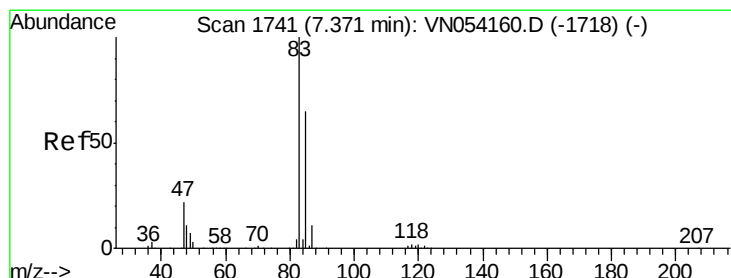
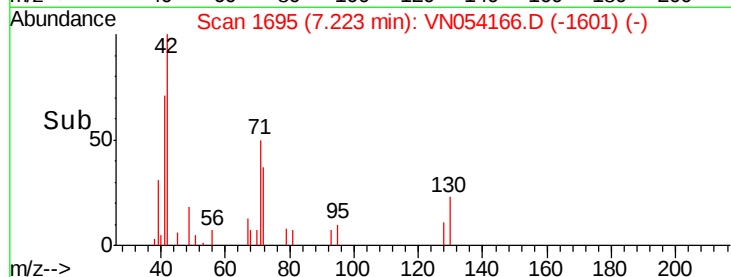
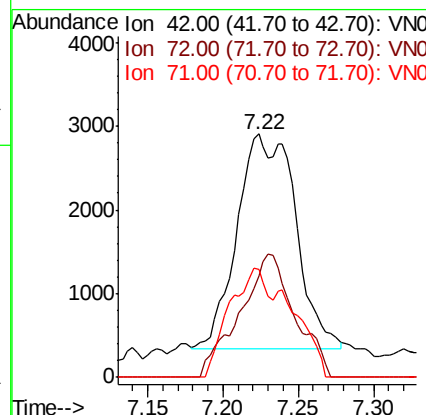
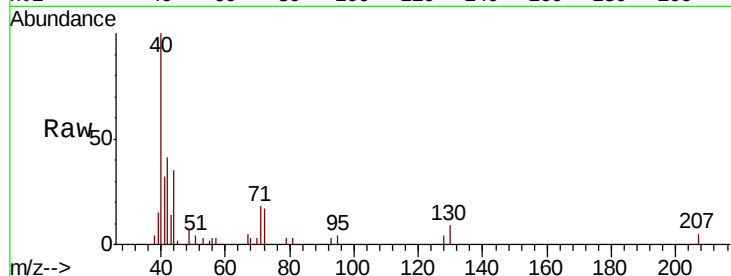
#29
Tetrahydrofuran
Concen: 2.024 ug/l m
RT: 7.22 min Scan# 1695
Delta R.T. 0.00 min
Lab File: VN054166.D
Acq: 12 Mar 2019 16:30

Instrument :
MSVOA_N
ClientSampleId :
LOD-MDL-WATER-01-QT1-2019

Tgt Ion	Ratio	Lower	Upper
42	100		
72	54.1	37.8	56.6
71	34.8	36.2	54.2#

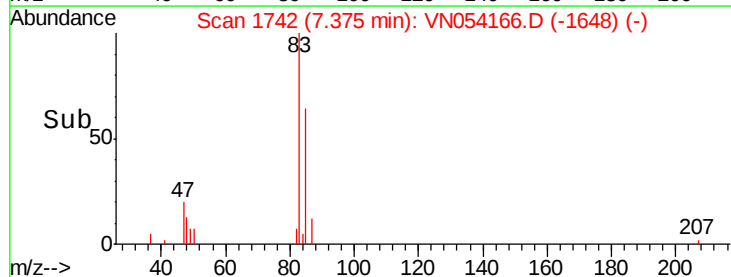
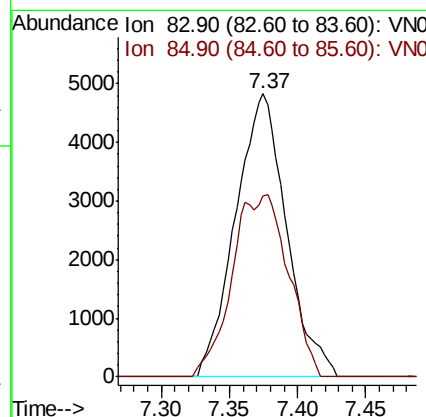
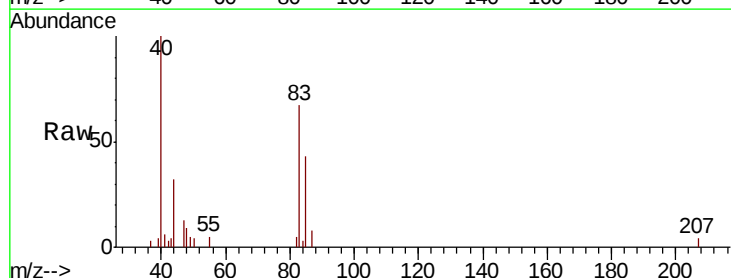
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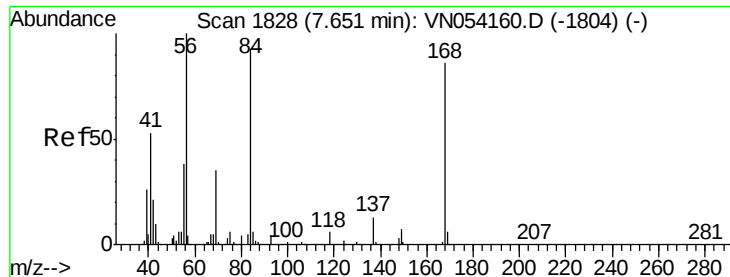
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3/13/2019 11:48:31 AM



#30
Chloroform
Concen: 0.476 ug/l
RT: 7.37 min Scan# 1742
Delta R.T. 0.00 min
Lab File: VN054166.D
Acq: 12 Mar 2019 16:30

Tgt Ion	Ratio	Lower	Upper
83	100		
85	64.1	52.2	78.4





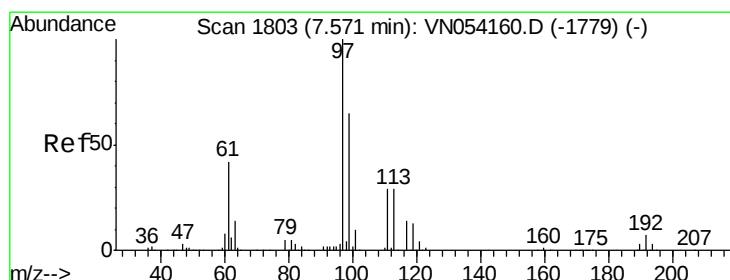
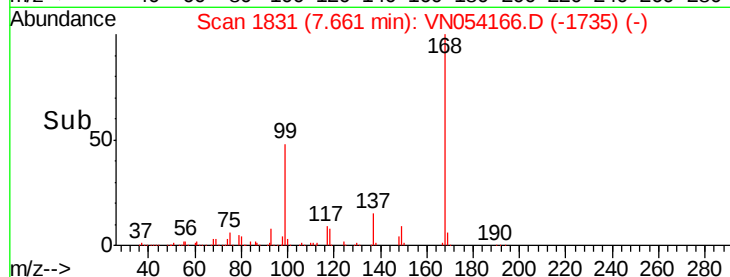
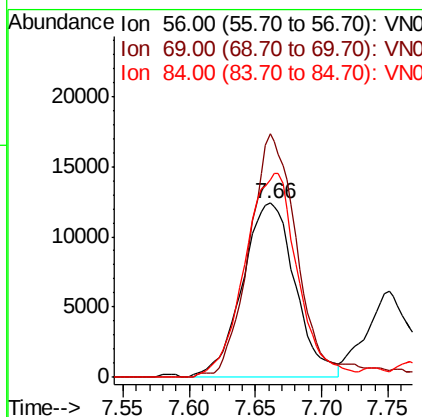
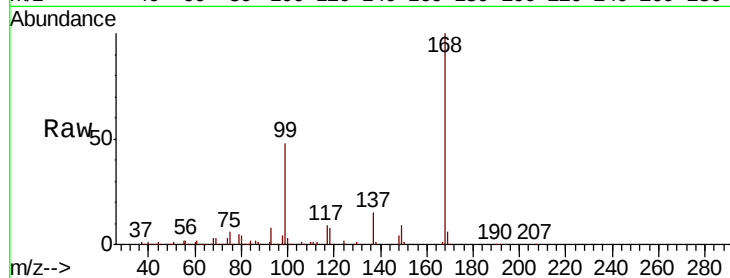
#31
Cyclohexane
Concen: 0.236 ug/l
RT: 7.66 min Scan# 1831
Delta R.T. 0.01 min
Lab File: VN054166.D
Acq: 12 Mar 2019 16:30

Instrument :
MSVOA_N
ClientSampleId :
LOD-MDL-WATER-01-QT1-2019

Tgt Ion	Ratio	Lower	Upper
56	100		
69	140.0	27.8	41.6#
84	113.7	74.6	111.8#

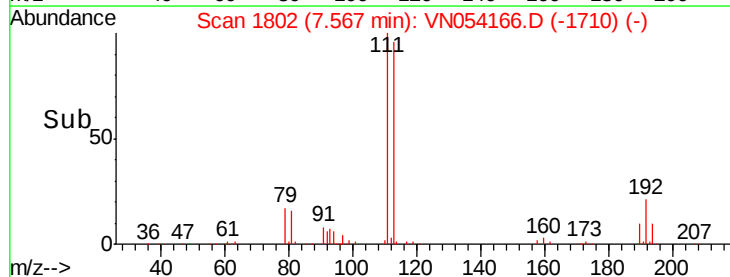
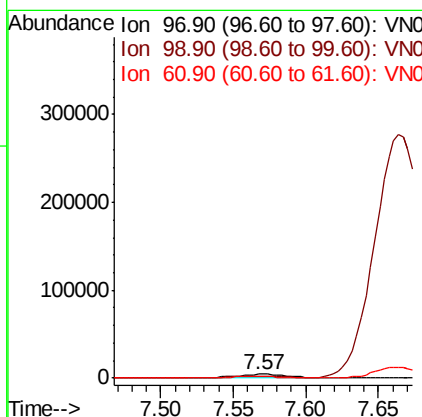
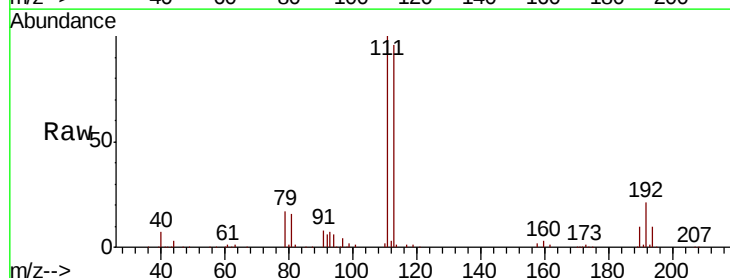
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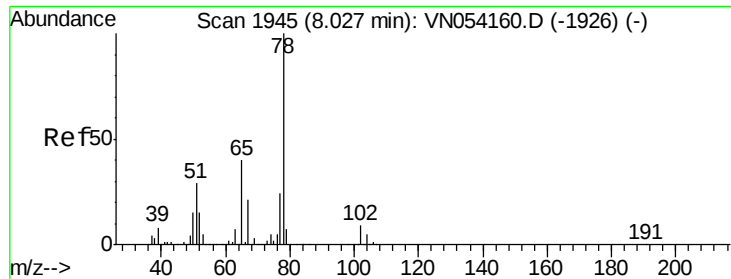
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#32
1,1,1-Trichloroethane
Concen: 0.449 ug/l
RT: 7.57 min Scan# 1802
Delta R.T. -0.00 min
Lab File: VN054166.D
Acq: 12 Mar 2019 16:30

Tgt Ion	Ratio	Lower	Upper
97	100		
99	0.0	51.5	77.3#
61	17.8	33.6	50.4#





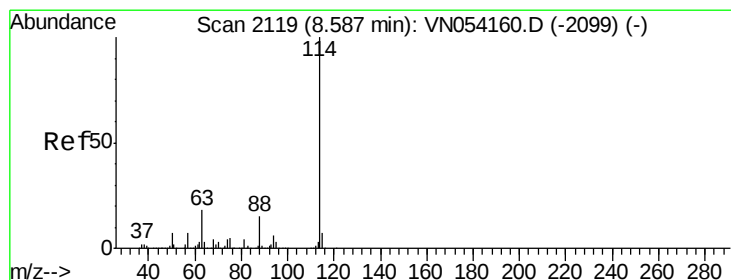
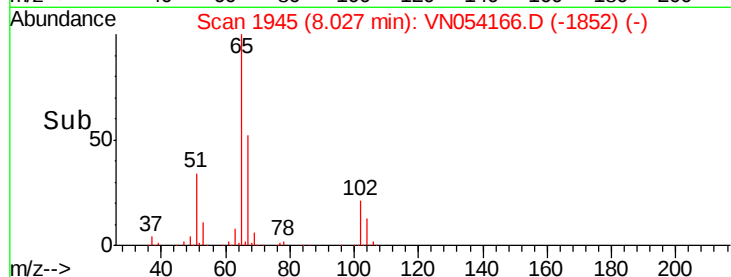
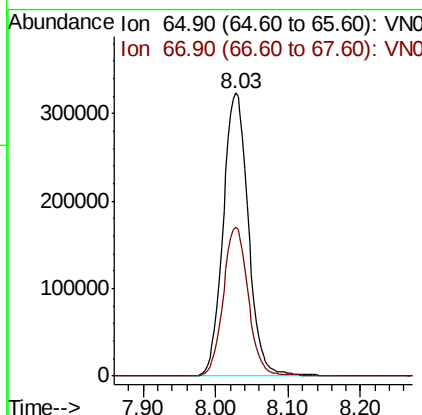
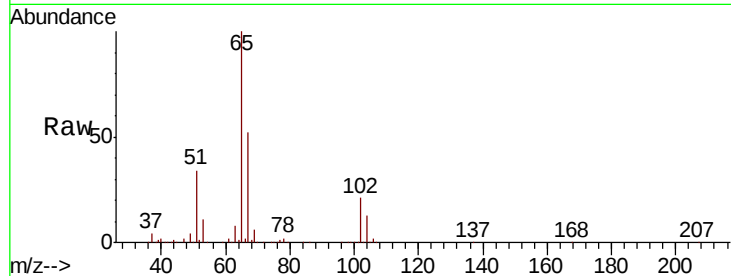
#33
 1,2-Dichloroethane-d4
 Concen: 49.784 ug/l
 RT: 8.03 min Scan# 1945
 Delta R.T. 0.00 min
 Lab File: VN054166.D
 Acq: 12 Mar 2019 16:30

Instrument :
 MSVOA_N
 ClientSampleId :
 LOD-MDL-WATER-01-QT1-2019

Tgt Ion: 65 Resp: 782191
 Ion Ratio Lower Upper
 65 100
 67 52.3 0.0 104.6

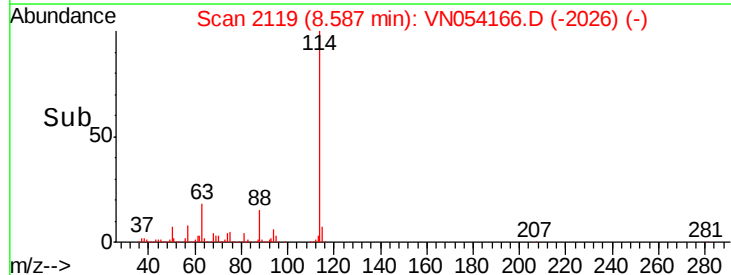
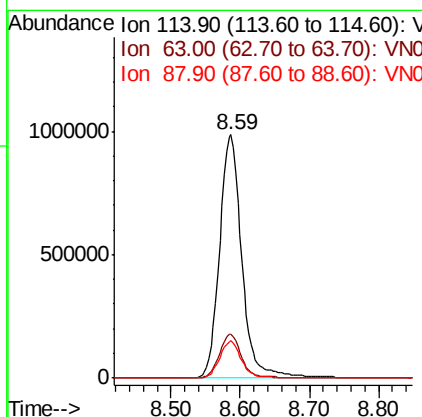
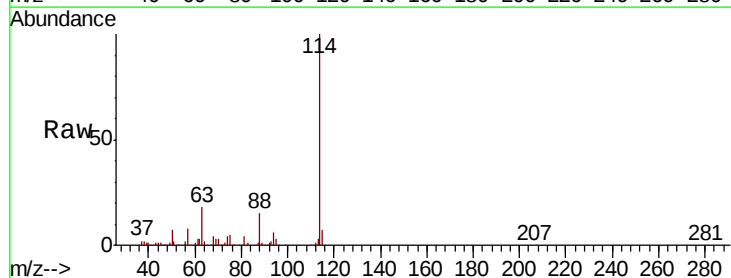
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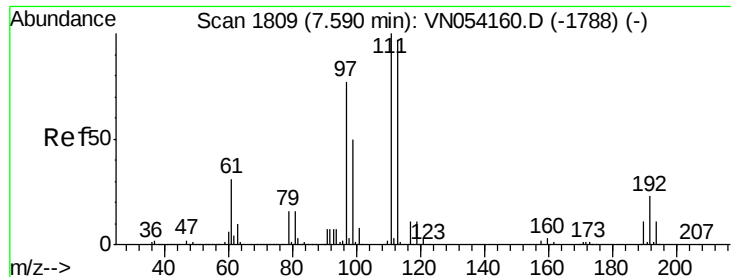
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#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. 0.00 min
 Lab File: VN054166.D
 Acq: 12 Mar 2019 16:30

Tgt Ion: 114 Resp: 2209539
 Ion Ratio Lower Upper
 114 100
 63 18.1 0.0 35.2
 88 15.2 0.0 30.2





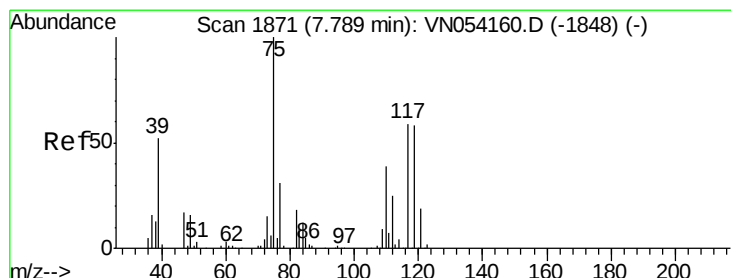
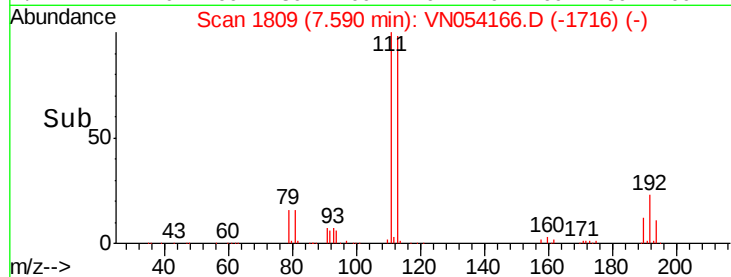
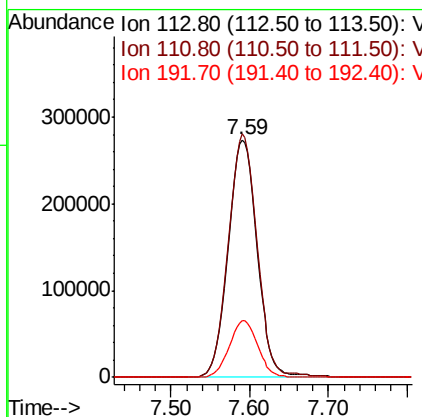
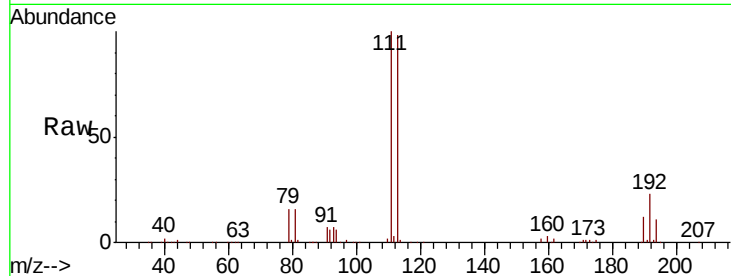
#35
 Dibromofluoromethane
 Concen: 49.056 ug/l
 RT: 7.59 min Scan# 1809
 Delta R.T. 0.00 min
 Lab File: VN054166.D
 Acq: 12 Mar 2019 16:30

Instrument :
 MSVOA_N
 ClientSampleId :
 LOD-MDL-WATER-01-QT1-2019

Tgt Ion	Ratio	Resp	Lower	Upper
113	100	699082		
111	102.0	82.2	123.4	
192	23.5	19.2	28.8	

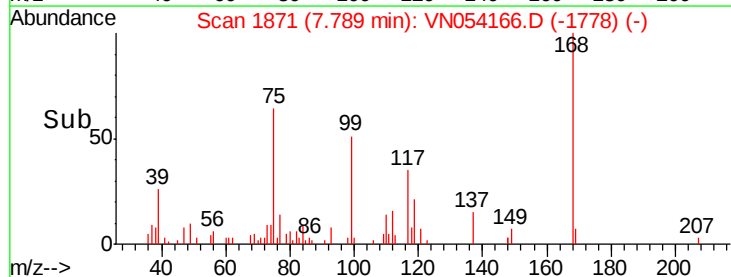
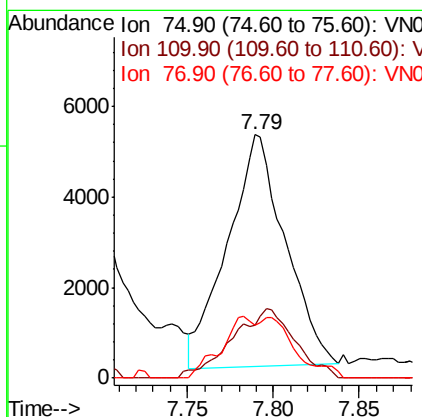
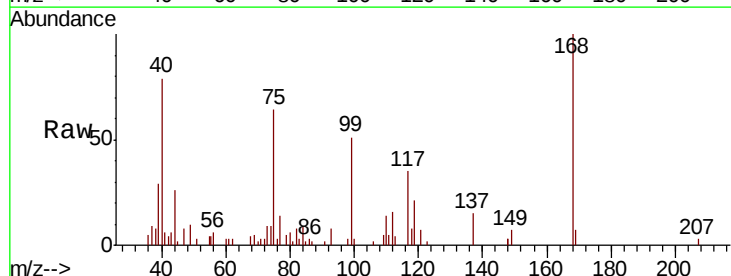
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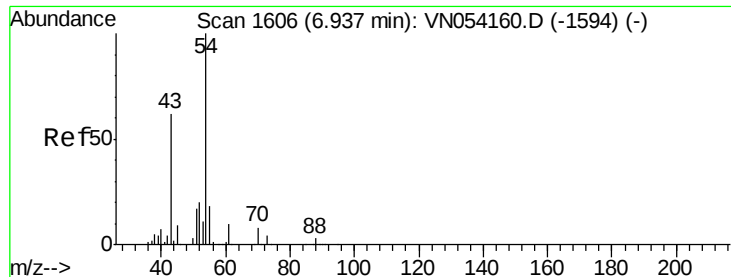
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#36
 1,1-Dichloropropene
 Concen: 0.586 ug/l
 RT: 7.79 min Scan# 1871
 Delta R.T. 0.00 min
 Lab File: VN054166.D
 Acq: 12 Mar 2019 16:30

Tgt Ion	Ratio	Resp	Lower	Upper
75	100	11919		
110	32.7	19.1	57.5	
77	15.5	25.0	37.4#	





#37

Ethyl Acetate

Concen: 0.337 ug/l m

RT: 6.95 min Scan# 1611

Delta R.T. 0.02 min

Lab File: VN054166.D

Acq: 12 Mar 2019 16:30

Instrument :

MSVOA_N

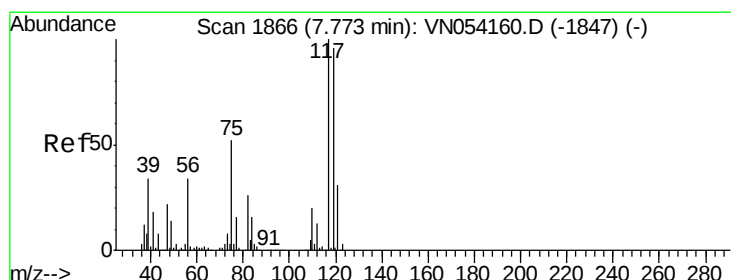
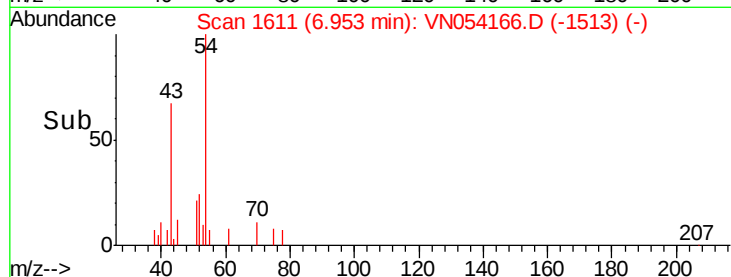
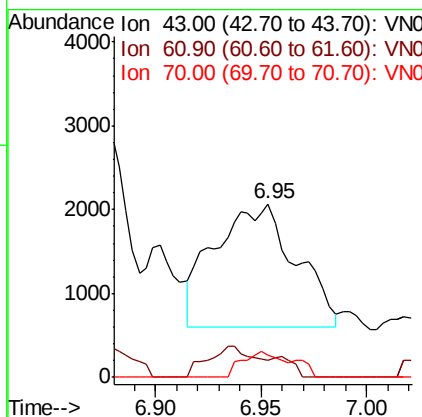
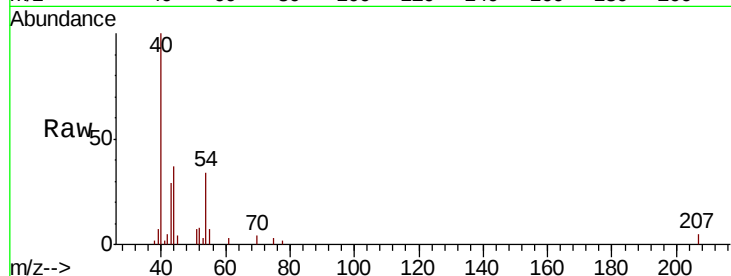
ClientSampleId :

LOD-MDL-WATER-01-QT1-2019

Tgt Ion:	43	Resp:	3941
Ion	Ratio	Lower	Upper
43	100		
61	14.8	11.8	17.6
70	10.0	8.4	12.6

Manual Integrations
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#38

Carbon Tetrachloride

Concen: 0.706 ug/l

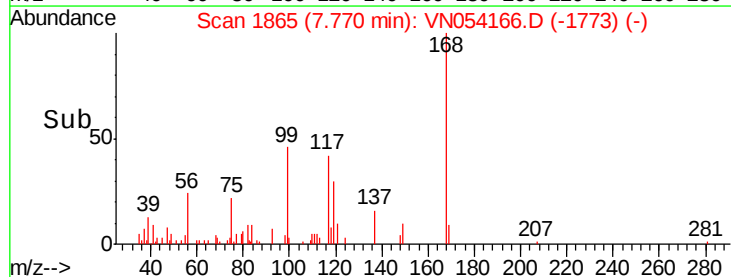
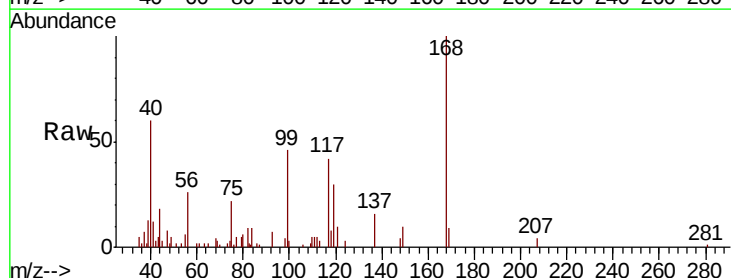
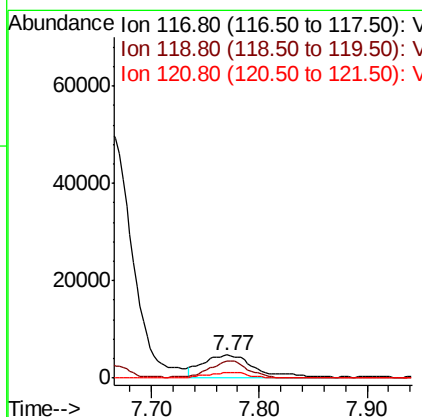
RT: 7.77 min Scan# 1865

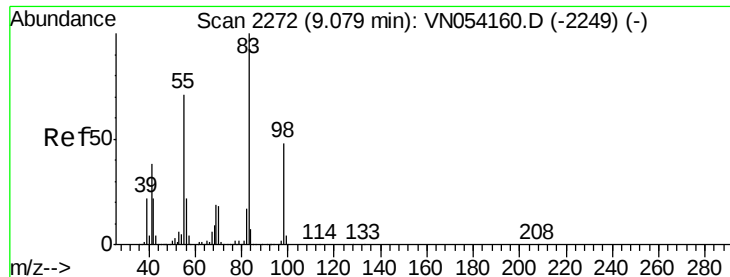
Delta R.T. -0.00 min

Lab File: VN054166.D

Acq: 12 Mar 2019 16:30

Tgt Ion:	117	Resp:	15069
Ion	Ratio	Lower	Upper
117	100		
119	73.9	76.3	114.5#
121	24.4	24.6	36.8#





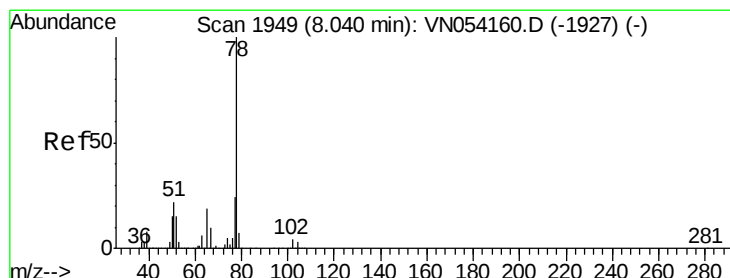
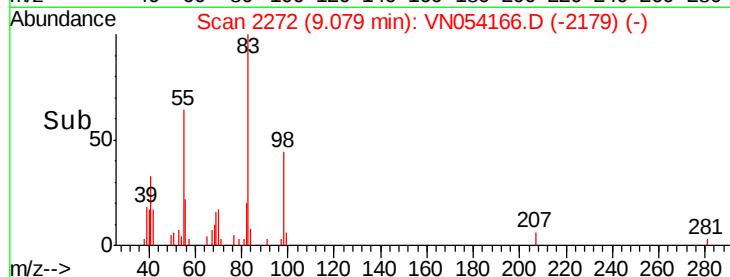
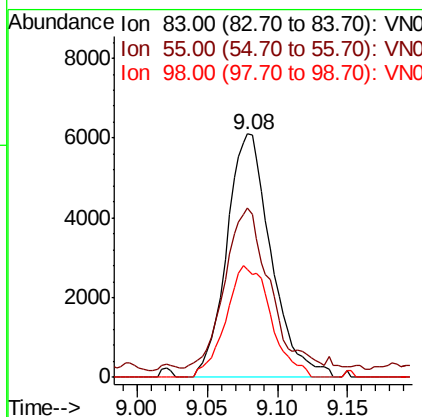
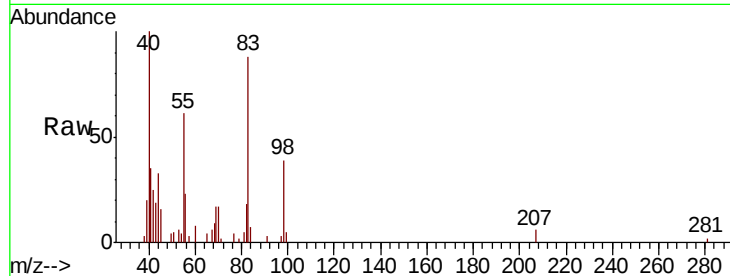
#39
Methylcyclohexane
Concen: 0.535 ug/l
RT: 9.08 min Scan# 2272
Delta R.T. 0.00 min
Lab File: VN054166.D
Acq: 12 Mar 2019 16:30

Instrument :
MSVOA_N
ClientSampleId :
LOD-MDL-WATER-01-QT1-2019

Tgt Ion	Ratio	Resp	Lower	Upper
83	100	13402		
55	64.6		56.6	84.8
98	44.3		38.4	57.6

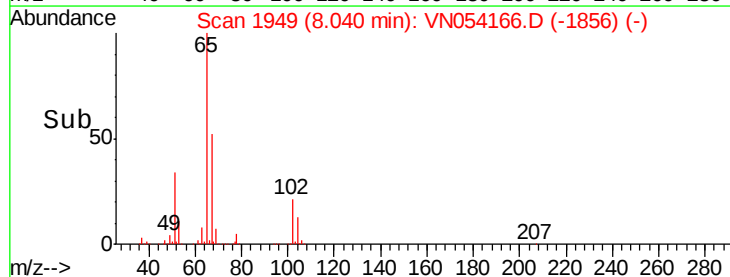
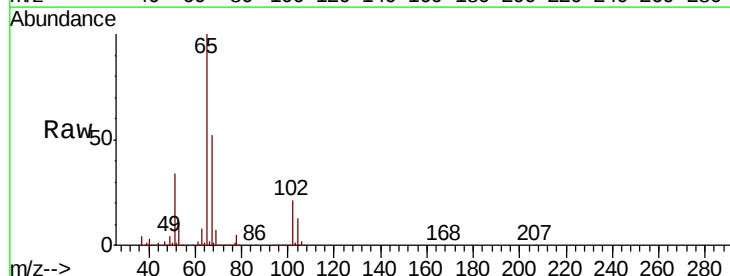
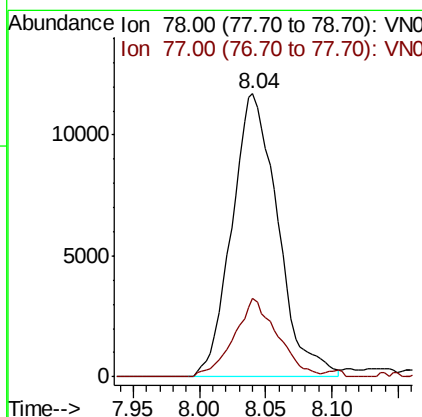
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#40
Benzene
Concen: 0.484 ug/l
RT: 8.04 min Scan# 1949
Delta R.T. 0.00 min
Lab File: VN054166.D
Acq: 12 Mar 2019 16:30

Tgt Ion	Ratio	Resp	Lower	Upper
78	100	28173		
77	27.9		19.1	28.7





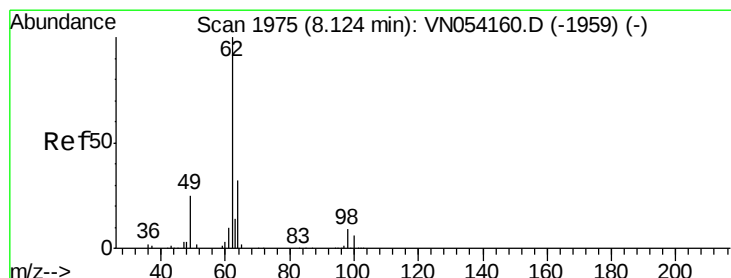
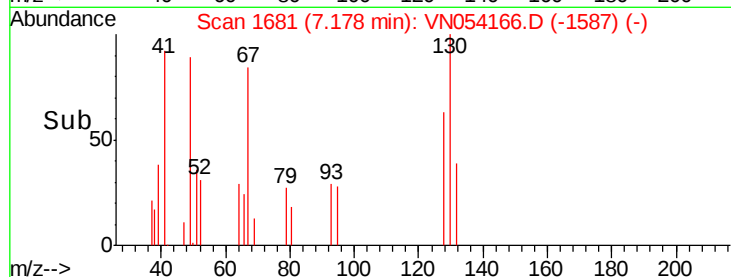
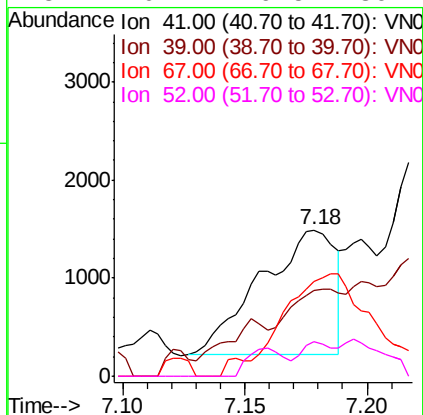
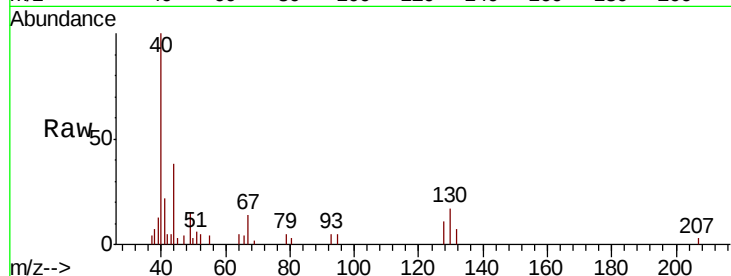
#41
Methacrylonitrile
Concen: 0.401 ug/l
RT: 7.18 min Scan# 1681
Delta R.T. 0.00 min
Lab File: VN054166.D
Acq: 12 Mar 2019 16:30

Instrument :
MSVOA_N
ClientSampleId :
LOD-MDL-WATER-01-QT1-2019

Tgt Ion: 41 Resp: 2680
Ion Ratio Lower Upper
41 100
39 22.3 46.8 70.2#
67 78.8 67.0 100.4
52 10.7 26.5 39.7#

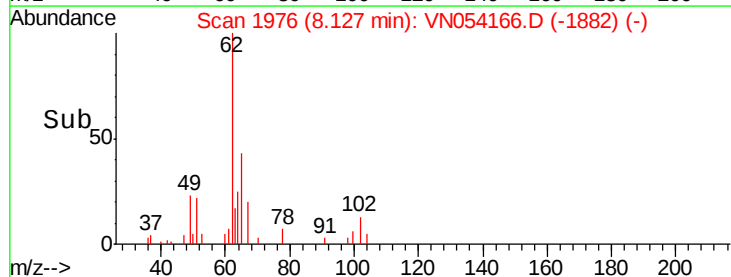
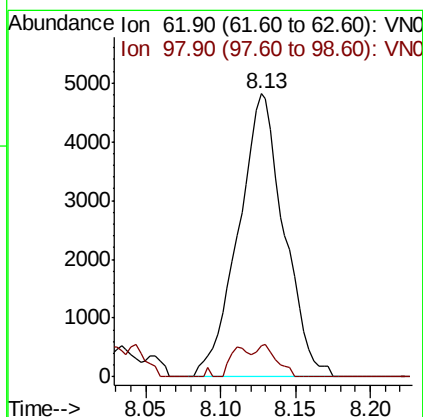
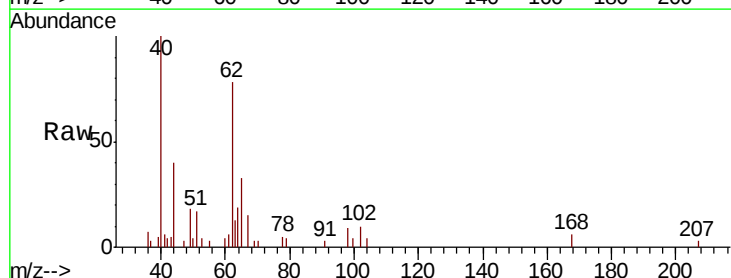
Manual Integrations
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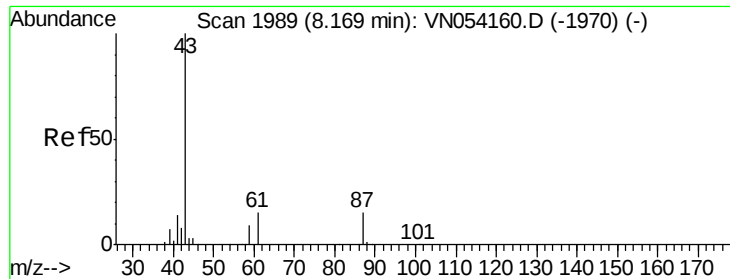
MMDadoda
3/13/2019 11:48:31 AM



#42
1,2-Dichloroethane
Concen: 0.519 ug/l
RT: 8.13 min Scan# 1976
Delta R.T. 0.00 min
Lab File: VN054166.D
Acq: 12 Mar 2019 16:30

Tgt Ion: 62 Resp: 10212
Ion Ratio Lower Upper
62 100
98 5.2 0.0 18.4





#43

Isopropyl Acetate

Concen: 0.457 ug/l

RT: 8.17 min Scan# 1989

Delta R.T. 0.00 min

Lab File: VN054166.D

Acq: 12 Mar 2019 16:30

Instrument :

MSVOA_N

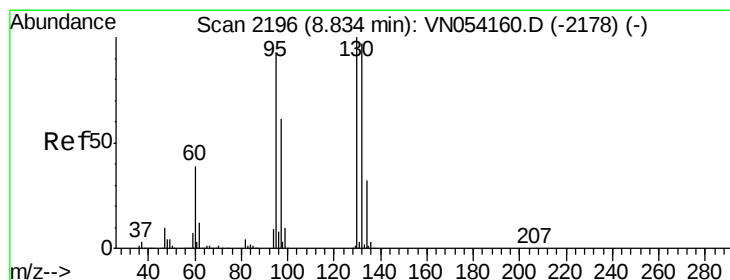
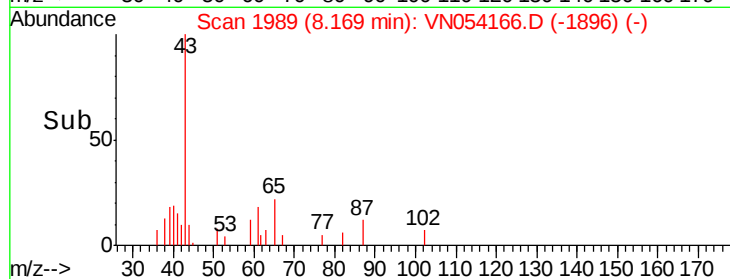
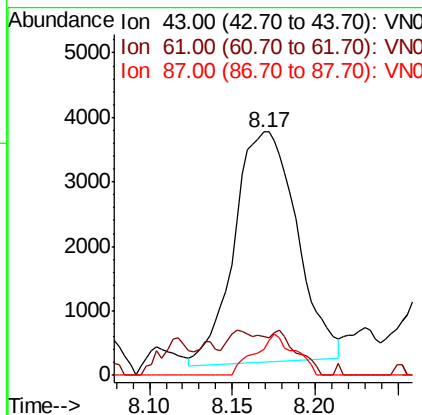
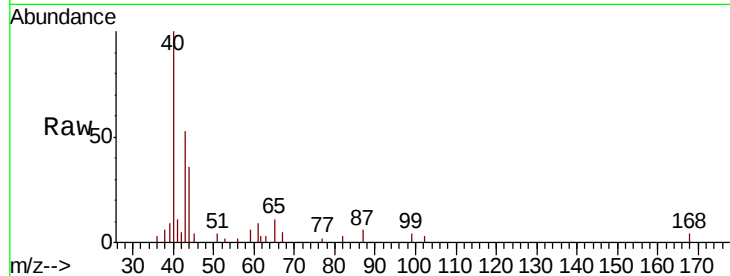
ClientSampleId :

LOD-MDL-WATER-01-QT1-2019

Tgt Ion:	43	Resp:	9380
Ion Ratio	Lower	Upper	
43	100		
61	0.0	15.8	23.8#
87	11.5	12.0	18.0#

Manual Integrations
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#44

Trichloroethene

Concen: 0.520 ug/l

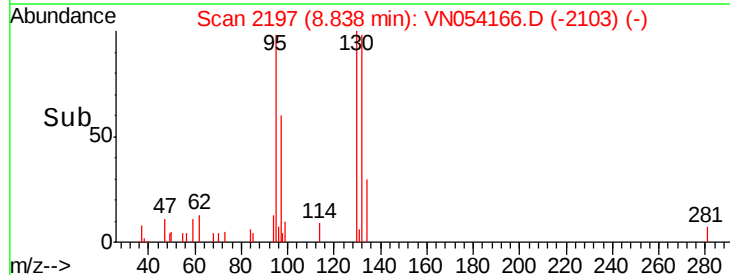
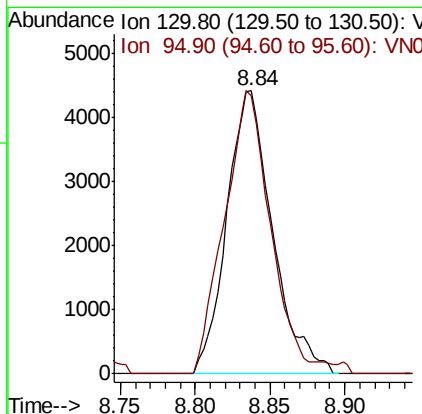
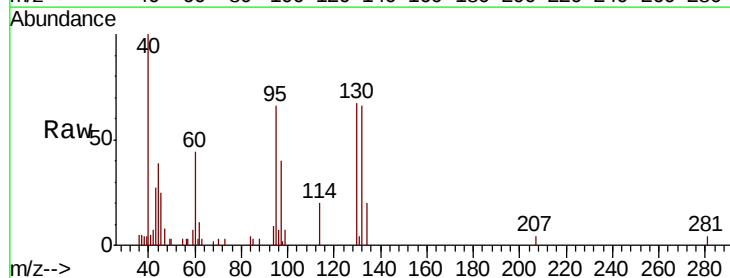
RT: 8.84 min Scan# 2197

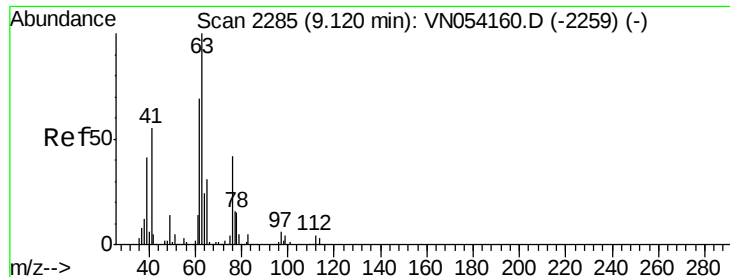
Delta R.T. 0.00 min

Lab File: VN054166.D

Acq: 12 Mar 2019 16:30

Tgt Ion:	130	Resp:	9406
Ion Ratio	Lower	Upper	
130	100		
95	98.3	0.0	185.2





#45

1,2-Dichloropropane

Concen: 0.460 ug/l

RT: 9.12 min Scan# 2285

Delta R.T. 0.00 min

Lab File: VN054166.D

Acq: 12 Mar 2019 16:30

Instrument :

MSVOA_N

ClientSampleId :

LOD-MDL-WATER-01-QT1-2019

Tgt Ion: 63 Resp: 6647

Ion Ratio Lower Upper

63 100

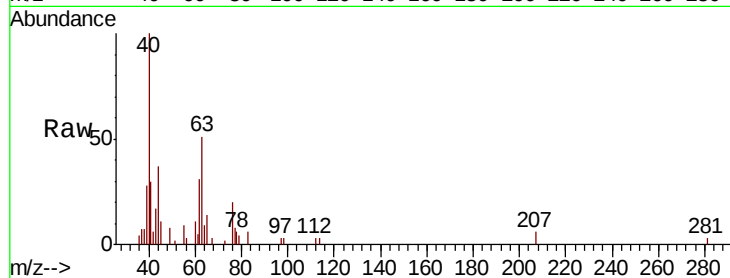
65 27.6 25.0 37.6

Manual Integrations

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Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 64.90 (64.60 to 65.60): VN0

9.12

4000

3000

2000

1000

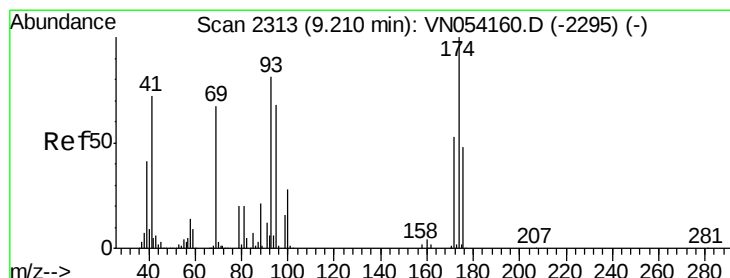
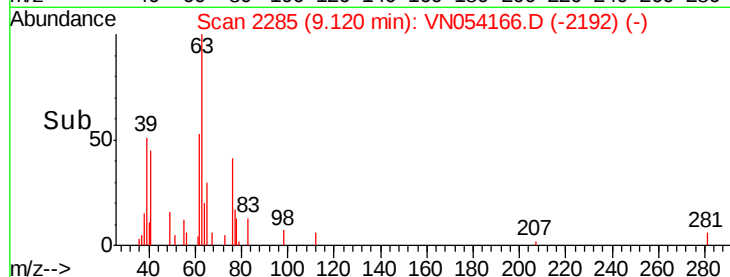
0

9.05

9.10

9.15

Time-->



#46

Dibromomethane

Concen: 0.514 ug/l

RT: 9.21 min Scan# 2312

Delta R.T. -0.00 min

Lab File: VN054166.D

Acq: 12 Mar 2019 16:30

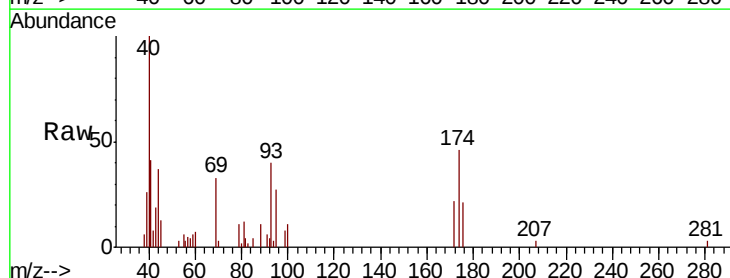
Tgt Ion: 93 Resp: 5019

Ion Ratio Lower Upper

93 100

95 86.2 66.7 100.1

174 127.4 98.5 147.7



Abundance Ion 92.80 (92.50 to 93.50): VN0

Ion 94.80 (94.50 to 95.50): VN0

Ion 173.70 (173.40 to 174.40): V

9.21

4000

3000

2000

1000

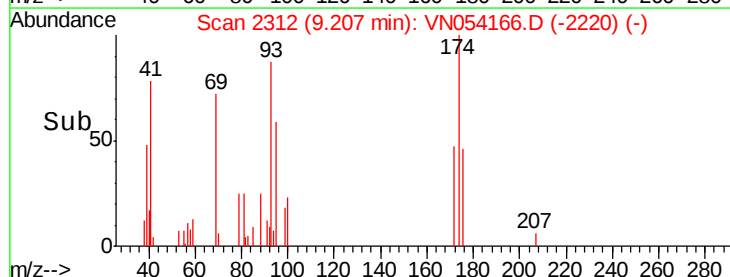
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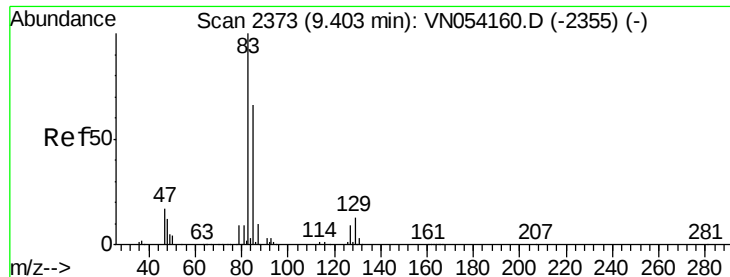
9.15

9.20

9.25

Time-->





#47

Bromodichloromethane

Concen: 0.446 ug/l

RT: 9.41 min Scan# 2374

Delta R.T. 0.00 min

Lab File: VN054166.D

Acq: 12 Mar 2019 16:30

Instrument :

MSVOA_N

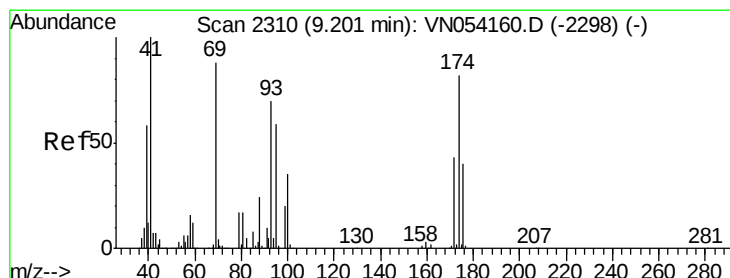
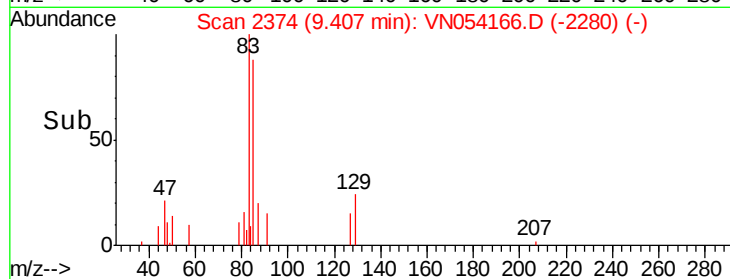
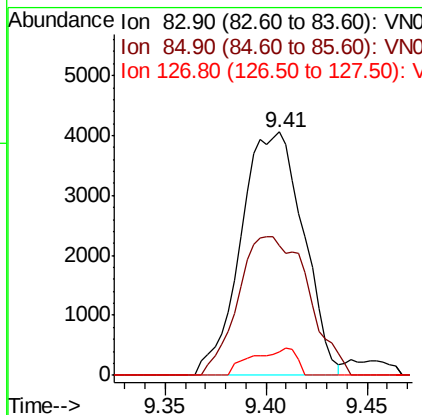
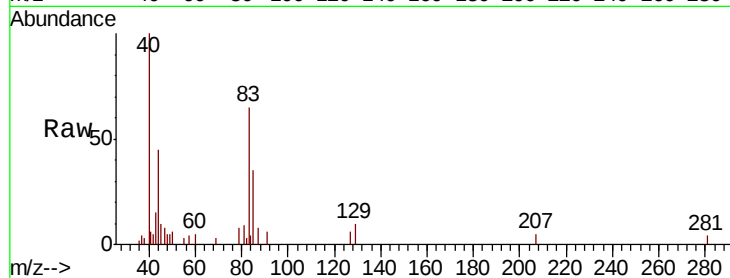
ClientSampleId :

LOD-MDL-WATER-01-QT1-2019

Tgt Ion:	83	Resp:	8742
Ion	Ratio	Lower	Upper
83	100		
85	53.5	52.8	79.2
127	9.5	7.4	11.2

Manual Integrations
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#48

Methyl methacrylate

Concen: 0.443 ug/l

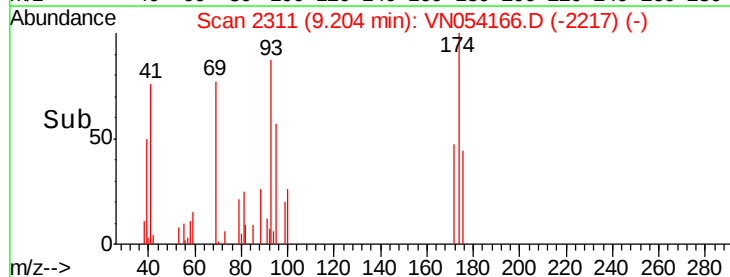
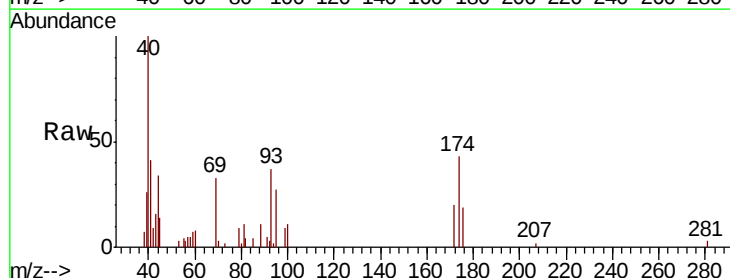
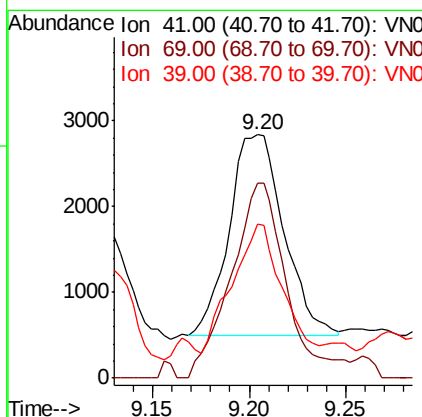
RT: 9.20 min Scan# 2311

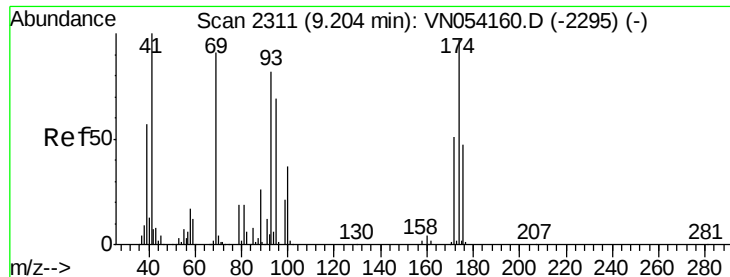
Delta R.T. 0.00 min

Lab File: VN054166.D

Acq: 12 Mar 2019 16:30

Tgt Ion:	41	Resp:	4616
Ion	Ratio	Lower	Upper
41	100		
69	98.4	72.6	108.8
39	56.7	47.5	71.3





#49

1,4-Dioxane

Concen: 9.816 ug/l

RT: 9.21 min Scan# 2312

Delta R.T. 0.00 min

Lab File: VN054166.D

Acq: 12 Mar 2019 16:30

Instrument :

MSVOA_N

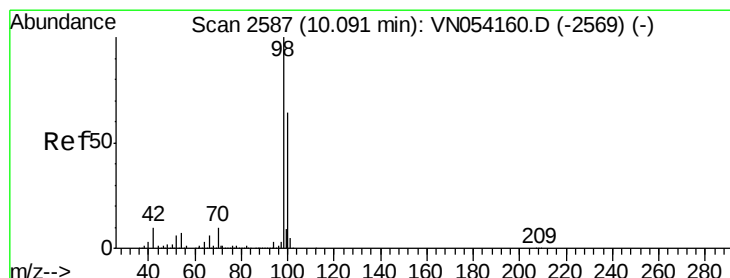
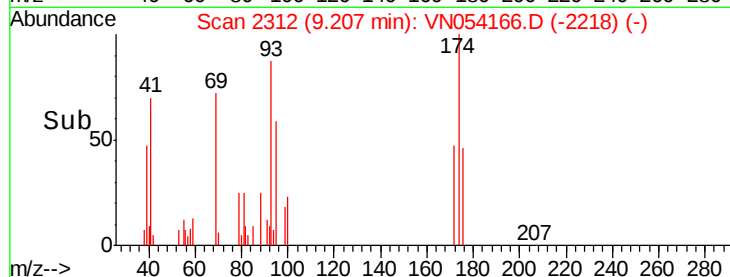
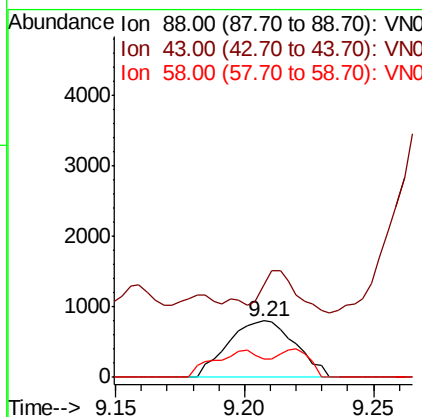
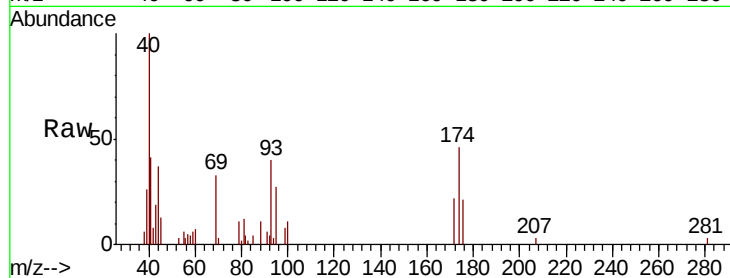
ClientSampleId :

LOD-MDL-WATER-01-QT1-2019

Tgt Ion:	88	Resp:	1446
Ion	Ratio	Lower	Upper
88	100		
43	36.4	24.1	36.1#
58	22.1	50.8	76.2#

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#50

Toluene-d8

Concen: 48.621 ug/l

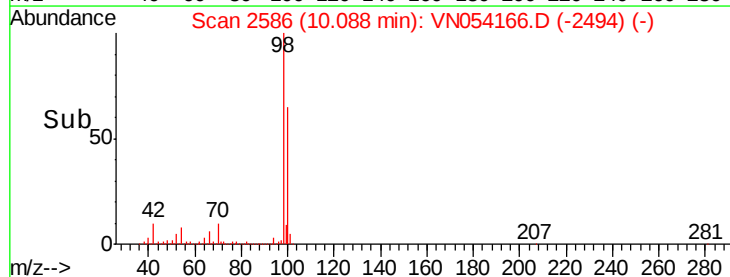
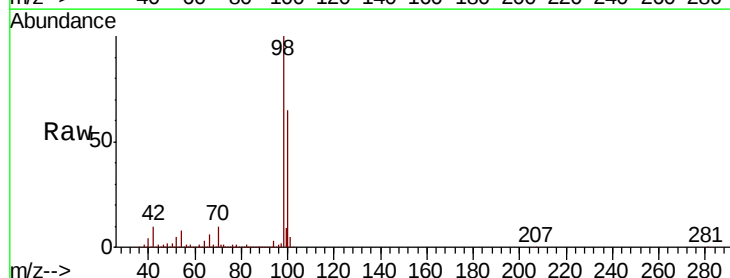
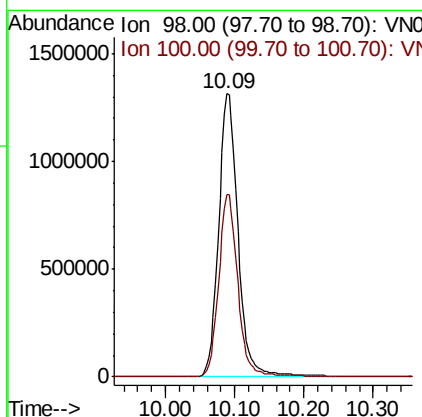
RT: 10.09 min Scan# 2586

Delta R.T. -0.00 min

Lab File: VN054166.D

Acq: 12 Mar 2019 16:30

Tgt Ion:	98	Resp:	2558880
Ion	Ratio	Lower	Upper
98	100		
100	63.7	51.2	76.8





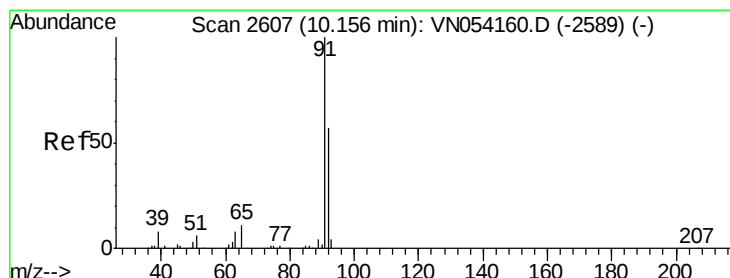
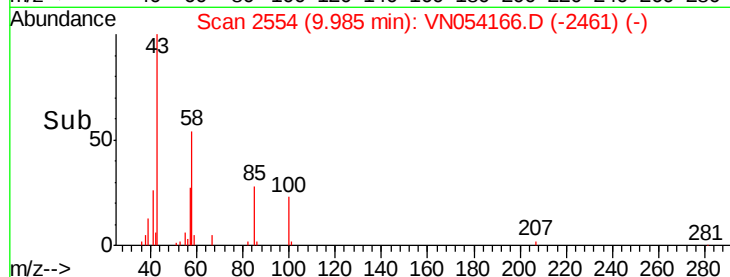
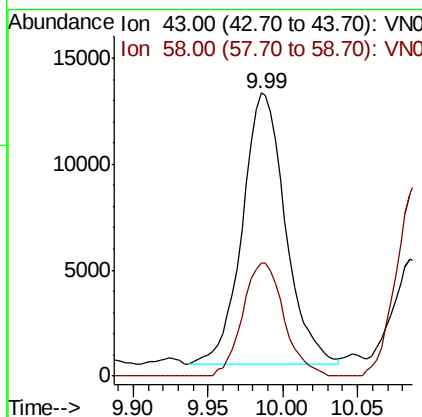
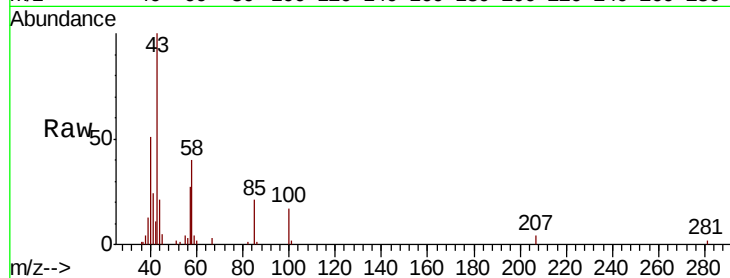
#51
4-Methyl-2-Pentanone
Concen: 2.350 ug/l
RT: 9.99 min Scan# 2554
Delta R.T. 0.00 min
Lab File: VN054166.D
Acq: 12 Mar 2019 16:30

Instrument :
MSVOA_N
ClientSampleId :
LOD-MDL-WATER-01-QT1-2019

Tgt Ion: 43 Resp: 25522
Ion Ratio Lower Upper
43 100
58 40.2 31.8 47.6

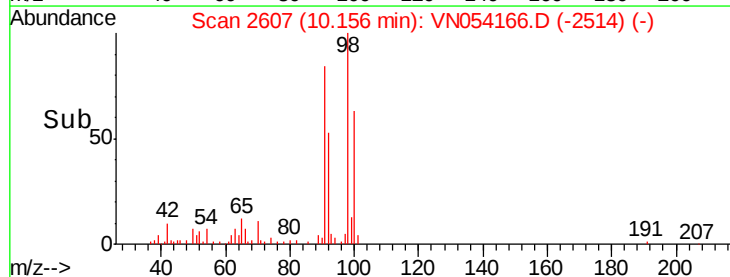
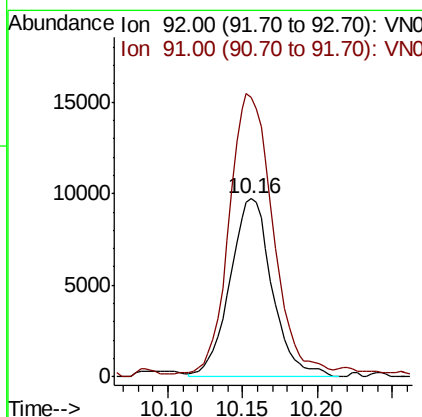
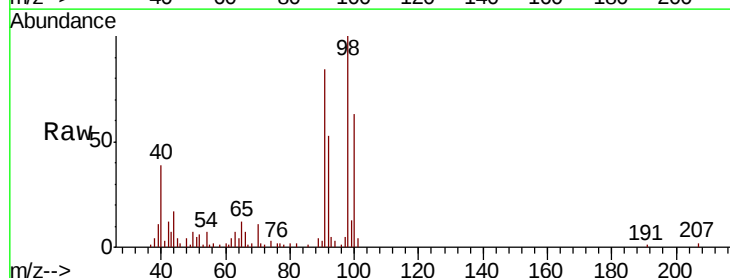
Manual Integrations
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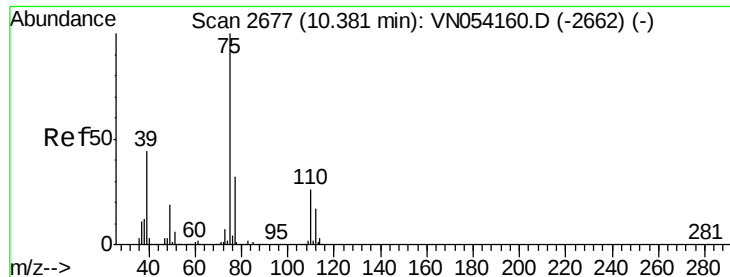
MMDadoda
3/13/2019 11:48:31 AM



#52
Toluene
Concen: 0.518 ug/l
RT: 10.16 min Scan# 2607
Delta R.T. 0.00 min
Lab File: VN054166.D
Acq: 12 Mar 2019 16:30

Tgt Ion: 92 Resp: 19128
Ion Ratio Lower Upper
92 100
91 160.4 140.7 211.1





#53

t-1,3-Dichloropropene

Concen: 2.365 ug/l

RT: 10.38 min Scan# 2677

Delta R.T. 0.00 min

Lab File: VN054166.D

Acq: 12 Mar 2019 16:30

Instrument :

MSVOA_N

ClientSampleId :

LOD-MDL-WATER-01-QT1-2019

Tgt Ion: 75 Resp: 8833

Ion Ratio Lower Upper

75 100

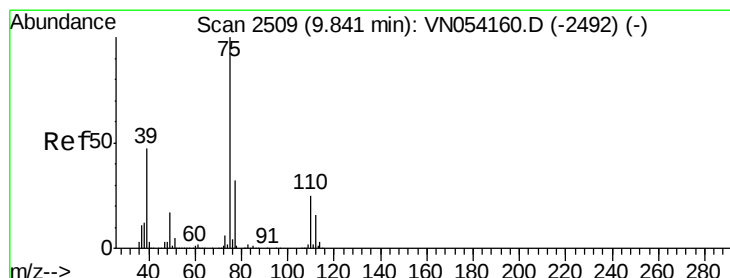
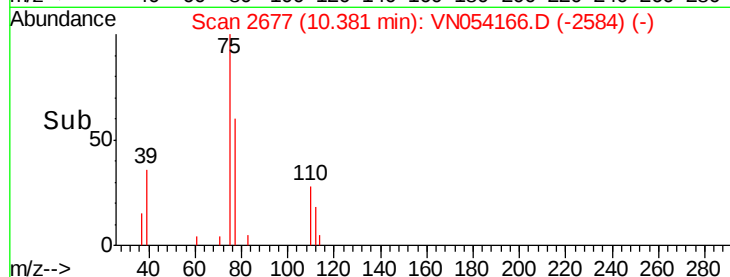
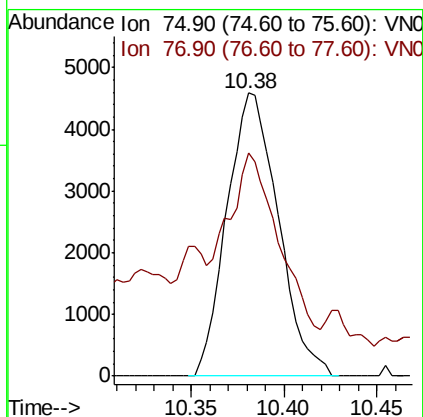
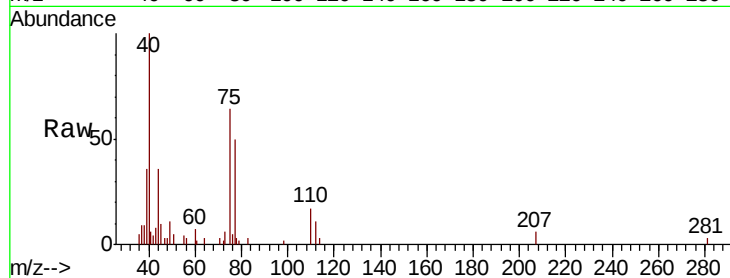
77 55.4 25.8 38.8#

Manual Integrations

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#54

cis-1,3-Dichloropropene

Concen: 0.449 ug/l

RT: 9.84 min Scan# 2509

Delta R.T. 0.00 min

Lab File: VN054166.D

Acq: 12 Mar 2019 16:30

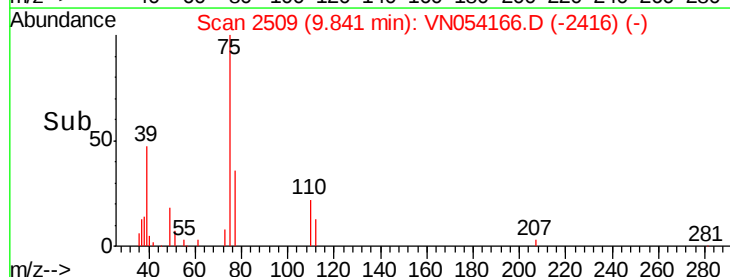
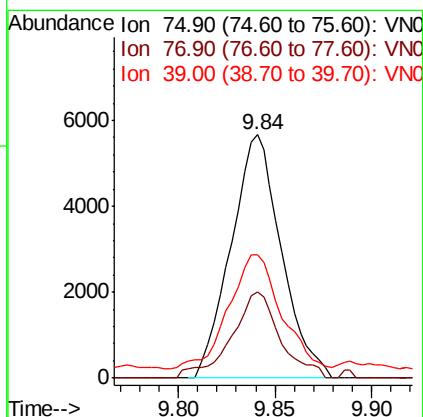
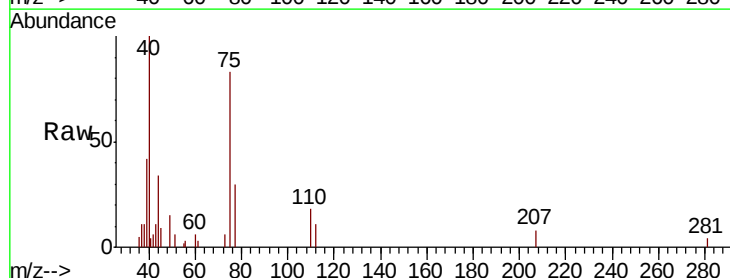
Tgt Ion: 75 Resp: 10250

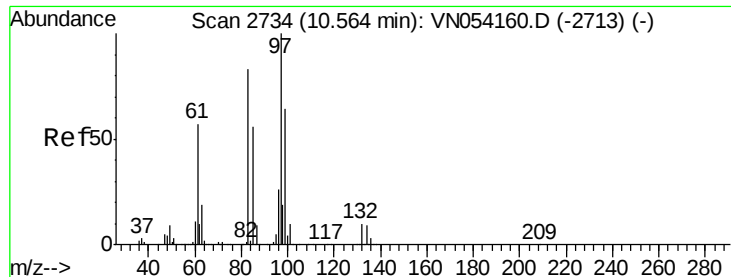
Ion Ratio Lower Upper

75 100

77 35.5 25.4 38.0

39 45.4 37.2 55.8





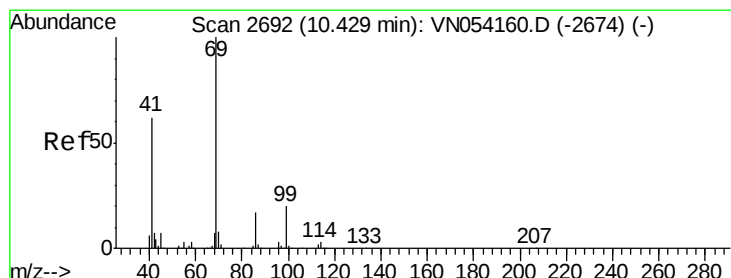
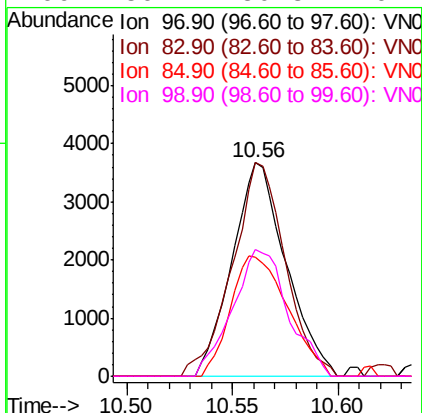
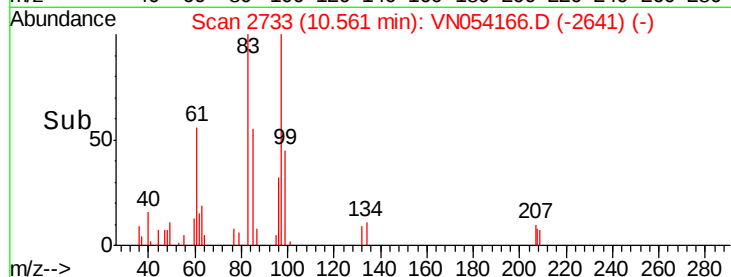
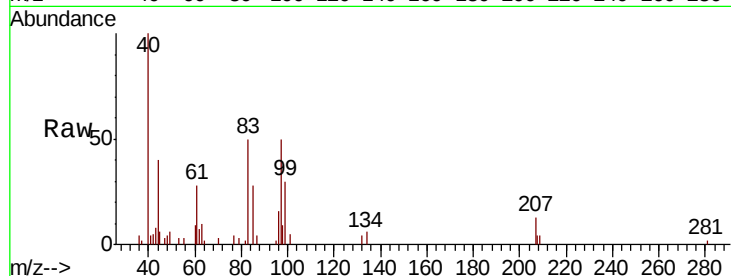
#55
 1,1,2-Trichloroethane
 Concen: 0.483 ug/l
 RT: 10.56 min Scan# 2733
 Delta R.T. -0.00 min
 Lab File: VN054166.D
 Acq: 12 Mar 2019 16:30

Instrument :
 MSVOA_N
 ClientSampleId :
 LOD-MDL-WATER-01-QT1-2019

Tgt Ion:	97	Resp:	6514
Ion	Ratio	Lower	Upper
97	100		
83	100.0	66.6	100.0#
85	55.5	44.4	66.6
99	59.2	50.8	76.2

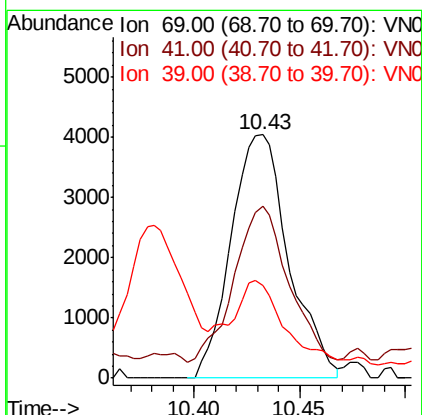
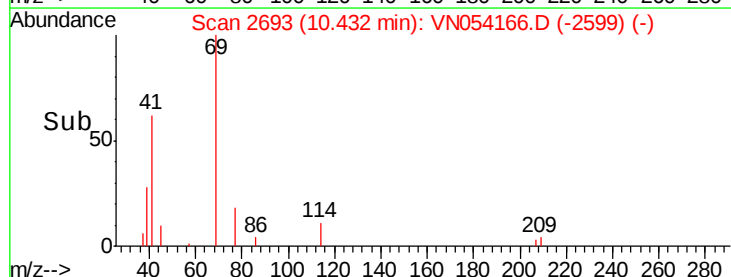
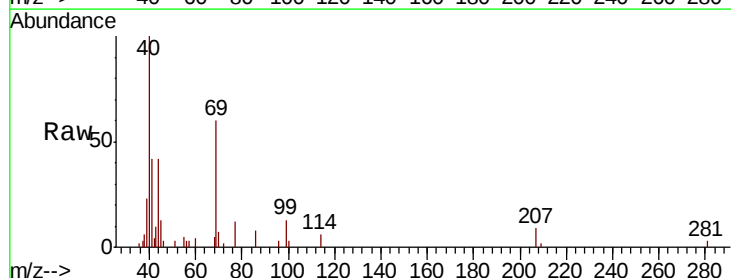
Manual Integrations
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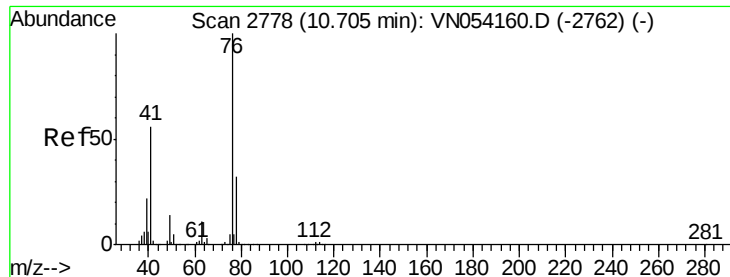
MMDadoda
 3/13/2019 11:48:31 AM



#56
 Ethyl methacrylate
 Concen: 0.478 ug/l
 RT: 10.43 min Scan# 2693
 Delta R.T. 0.00 min
 Lab File: VN054166.D
 Acq: 12 Mar 2019 16:30

Tgt Ion:	69	Resp:	7691
Ion	Ratio	Lower	Upper
69	100		
41	60.9	49.4	74.2
39	24.2	28.3	42.5#





#57

1,3-Dichloropropane

Concen: 0.447 ug/l

RT: 10.71 min Scan# 2778

Delta R.T. 0.00 min

Lab File: VN054166.D

Acq: 12 Mar 2019 16:30

Instrument :

MSVOA_N

ClientSampleId :

LOD-MDL-WATER-01-QT1-2019

Tgt Ion: 76 Resp: 9856

Ion Ratio Lower Upper

76 100

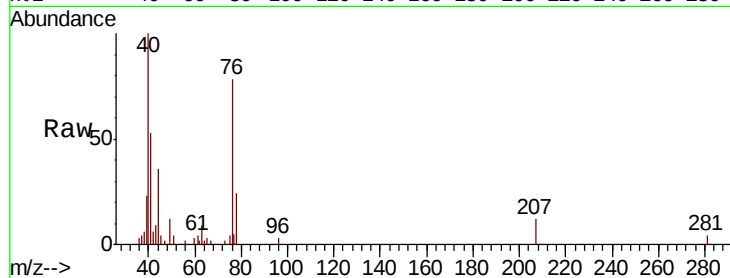
78 35.2 25.7 38.5

Manual Integrations

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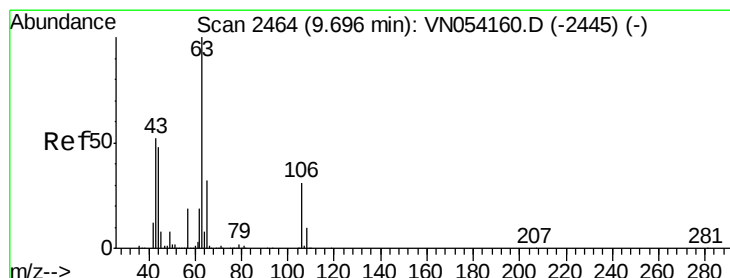
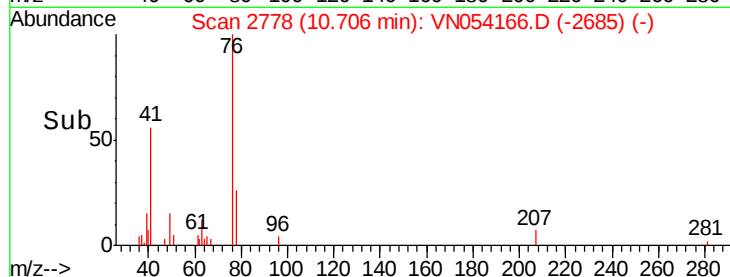
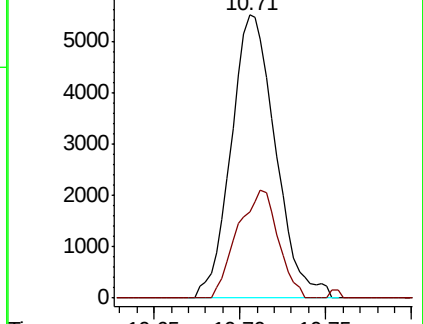
MMDadoda

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Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0



#58

2-Chloroethyl Vinyl ether

Concen: 18.539 ug/l

RT: 9.70 min Scan# 2464

Delta R.T. 0.00 min

Lab File: VN054166.D

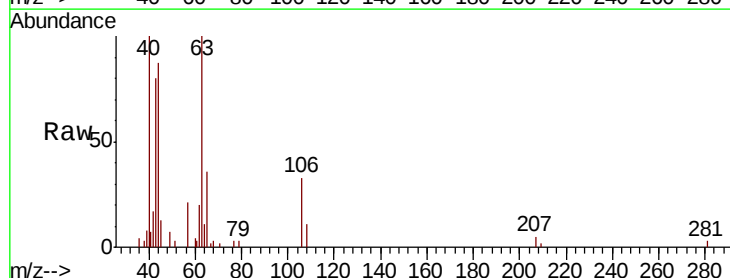
Acq: 12 Mar 2019 16:30

Tgt Ion: 63 Resp: 12795

Ion Ratio Lower Upper

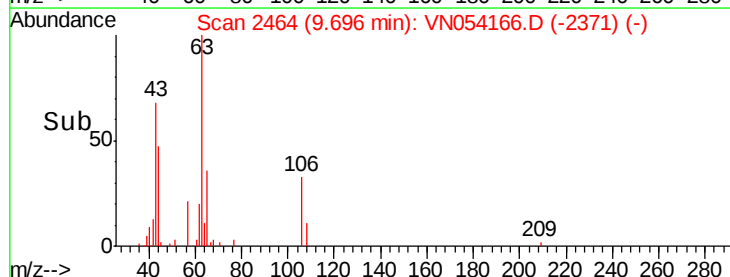
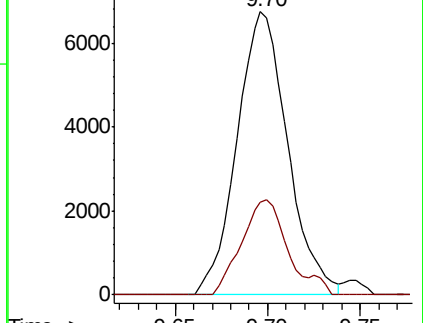
63 100

106 30.9 24.4 36.6



Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 105.90 (105.60 to 106.60): V





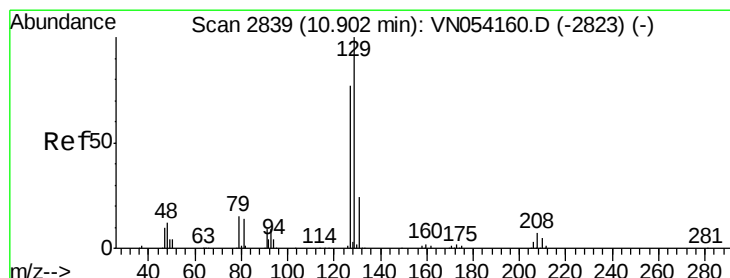
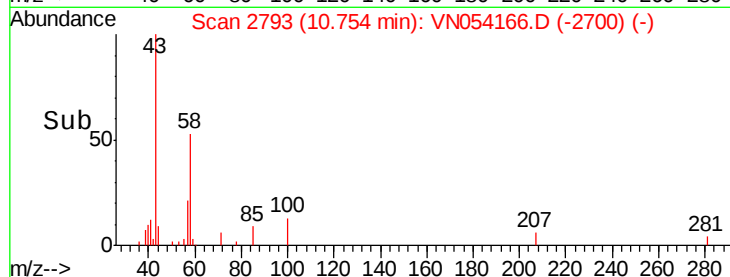
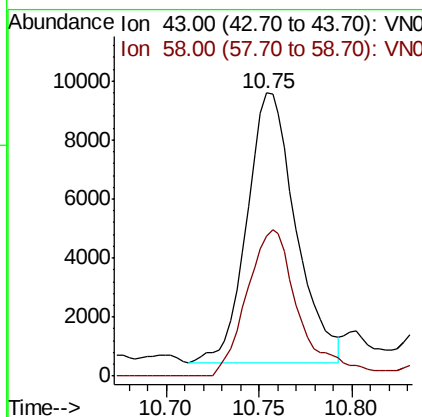
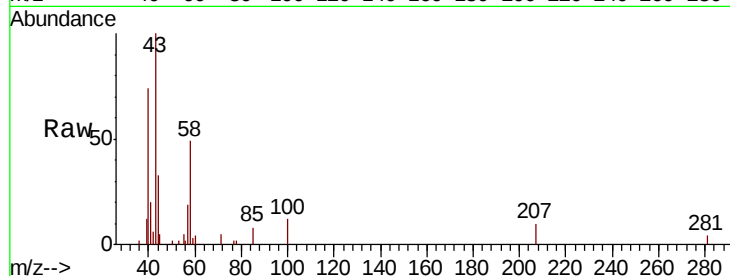
#59
2-Hexanone
Concen: 2.315 ug/l
RT: 10.75 min Scan# 2793
Delta R.T. 0.00 min
Lab File: VN054166.D
Acq: 12 Mar 2019 16:30

Instrument :
MSVOA_N
ClientSampleId :
LOD-MDL-WATER-01-QT1-2019

Tgt Ion: 43 Resp: 16727
Ion Ratio Lower Upper
43 100
58 57.9 28.0 83.9

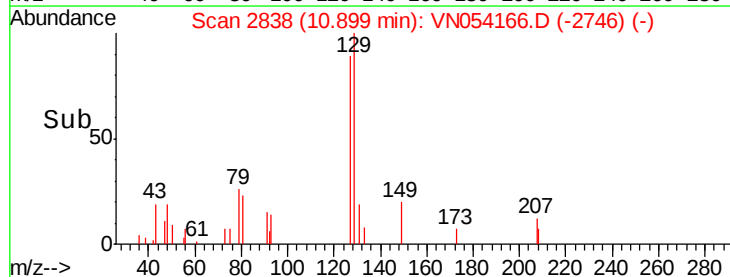
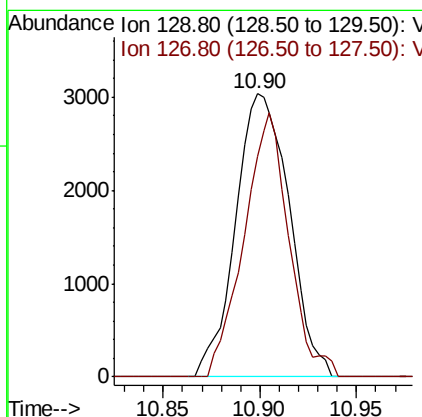
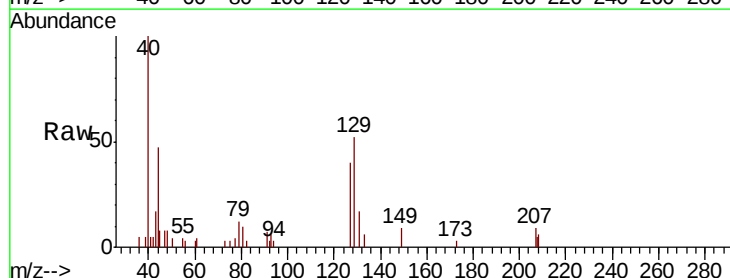
Manual Integrations
APPROVED

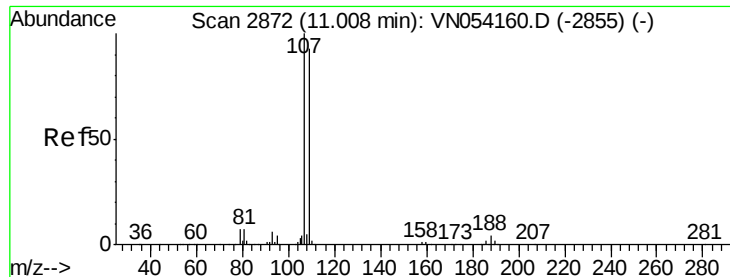
MMDadoda
3/13/2019 11:48:31 AM



#60
Dibromochloromethane
Concen: 0.386 ug/l
RT: 10.90 min Scan# 2838
Delta R.T. -0.00 min
Lab File: VN054166.D
Acq: 12 Mar 2019 16:30

Tgt Ion: 129 Resp: 5851
Ion Ratio Lower Upper
129 100
127 78.3 38.6 115.8





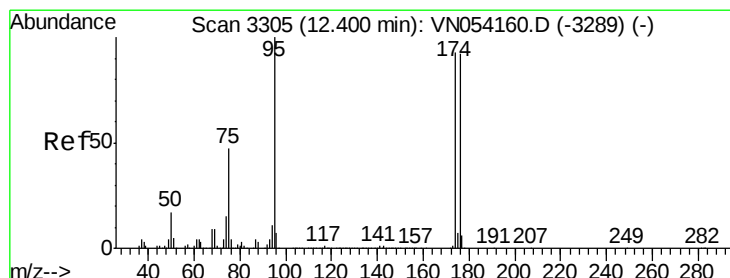
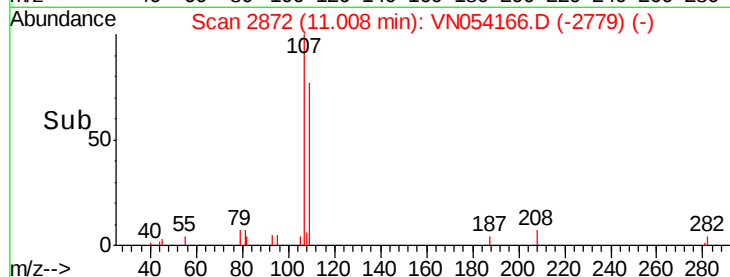
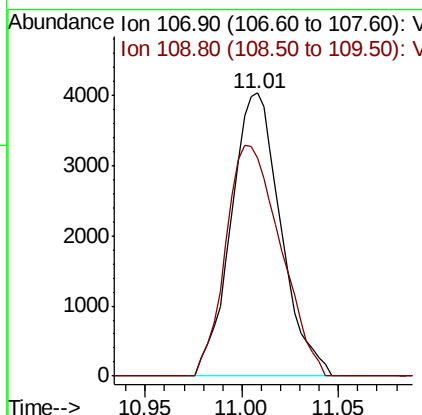
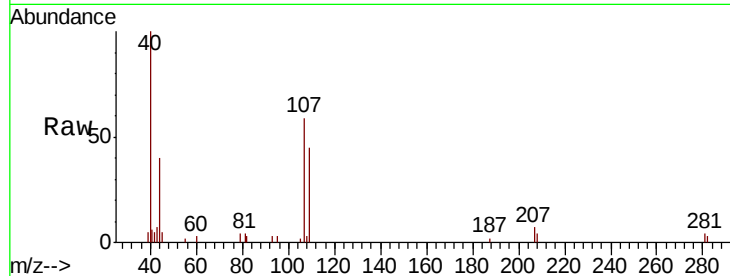
#61
 1,2-Dibromoethane
 Concen: 0.524 ug/l
 RT: 11.01 min Scan# 2872
 Delta R.T. 0.00 min
 Lab File: VN054166.D
 Acq: 12 Mar 2019 16:30

Instrument :
 MSVOA_N
 ClientSampleId :
 LOD-MDL-WATER-01-QT1-2019

Tgt Ion	Ratio	Lower	Upper
107	100		
109	90.1	75.9	113.9

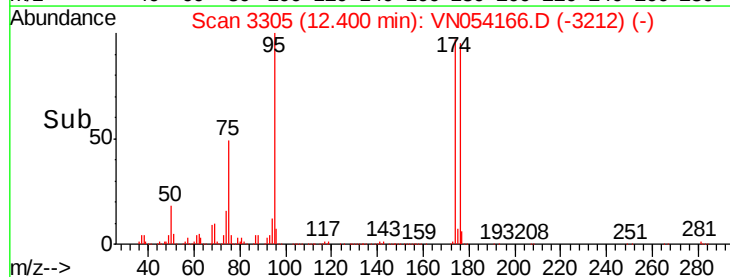
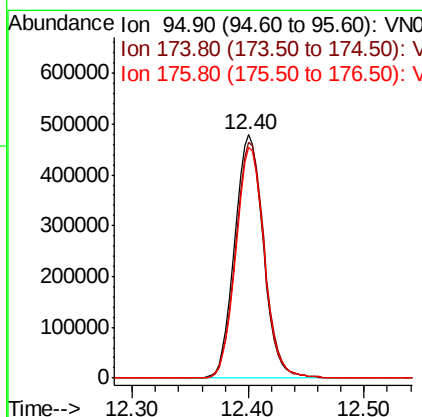
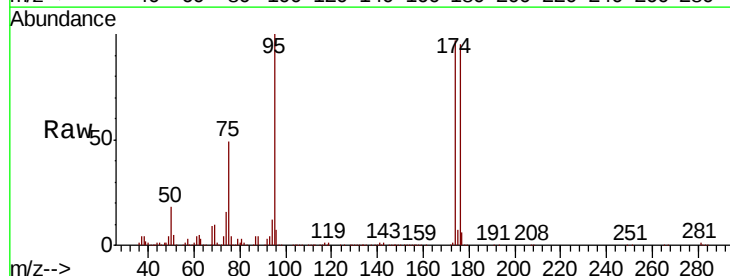
Manual Integrations
 APPROVED

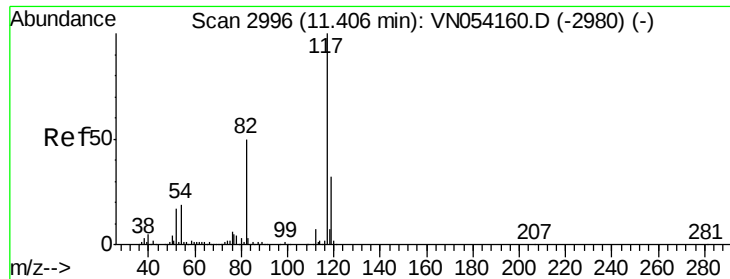
MMDadoda
 3/13/2019 11:48:31 AM



#62
 4-Bromofluorobenzene
 Concen: 44.353 ug/l
 RT: 12.40 min Scan# 3305
 Delta R.T. 0.00 min
 Lab File: VN054166.D
 Acq: 12 Mar 2019 16:30

Tgt Ion	Ratio	Lower	Upper
95	100		
174	97.4	0.0	191.0
176	94.3	0.0	187.4





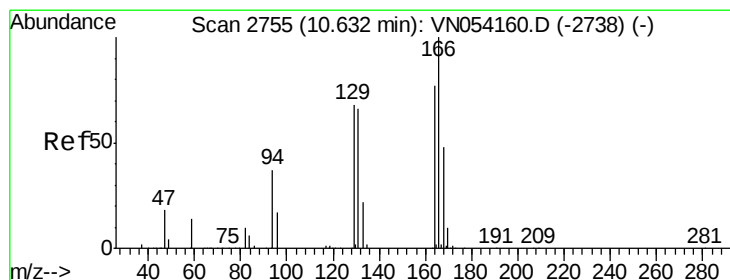
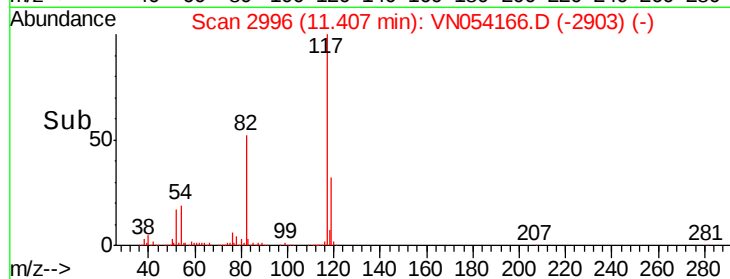
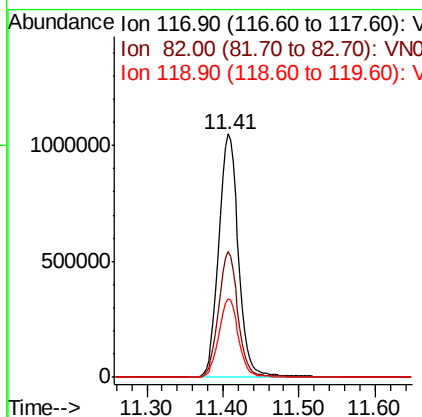
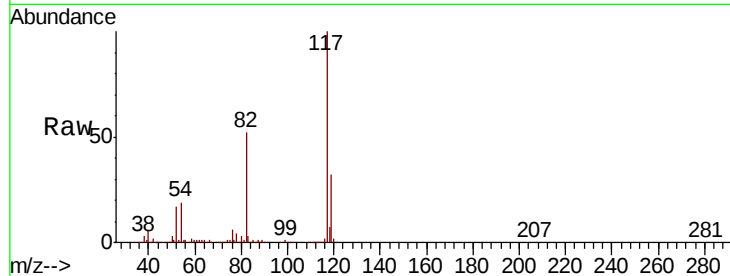
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN054166.D
Acq: 12 Mar 2019 16:30

Instrument :
MSVOA_N
ClientSampleId :
LOD-MDL-WATER-01-QT1-2019

Tgt Ion	Ratio	Lower	Upper
117	100		
82	51.5	40.0	60.0
119	32.3	25.8	38.6

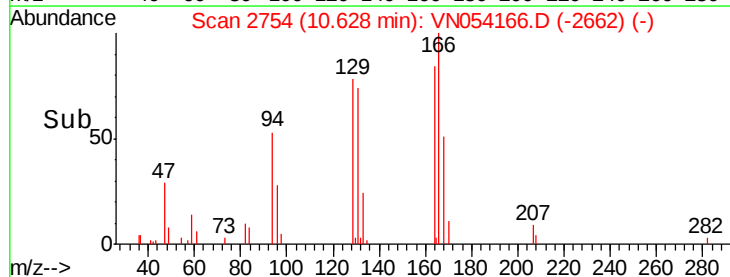
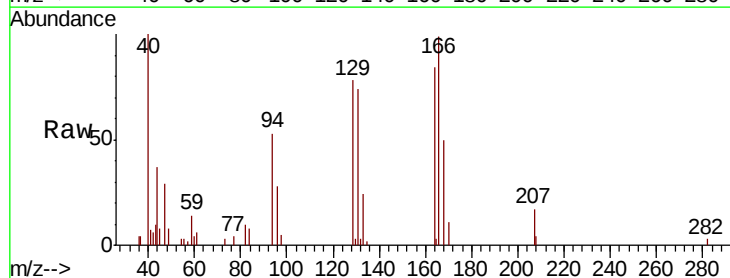
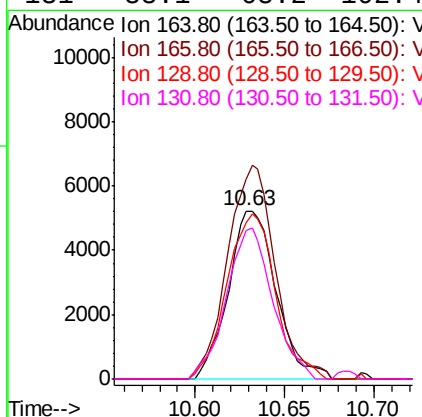
Manual Integrations
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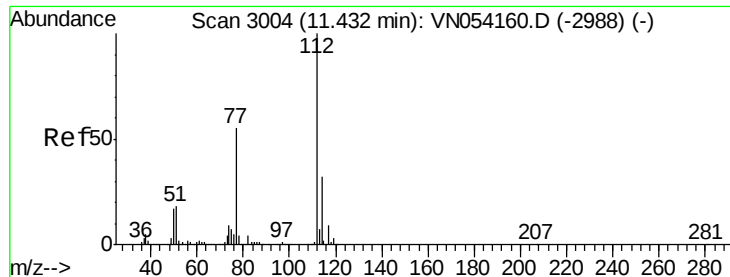
MMDadoda
3/13/2019 11:48:31 AM



#64
Tetrachloroethene
Concen: 0.532 ug/l
RT: 10.63 min Scan# 2754
Delta R.T. -0.00 min
Lab File: VN054166.D
Acq: 12 Mar 2019 16:30

Tgt Ion	Ratio	Lower	Upper
164	100		
166	118.8	103.9	155.9
129	93.1	71.1	106.7
131	88.1	68.2	102.4





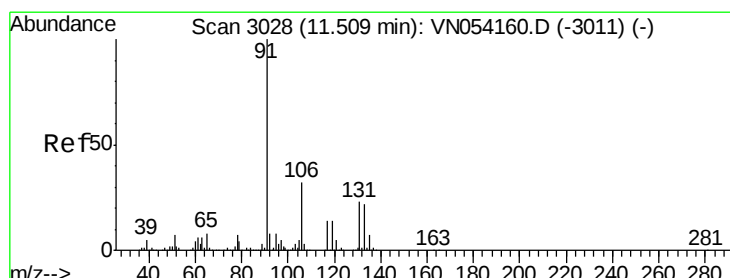
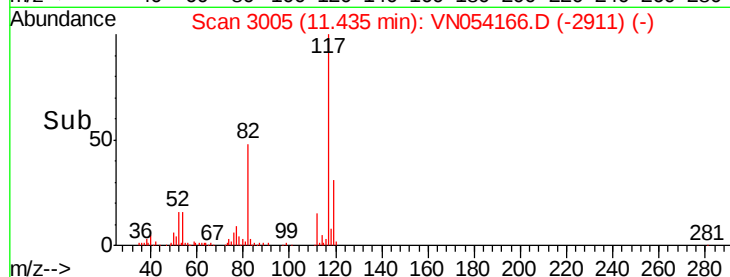
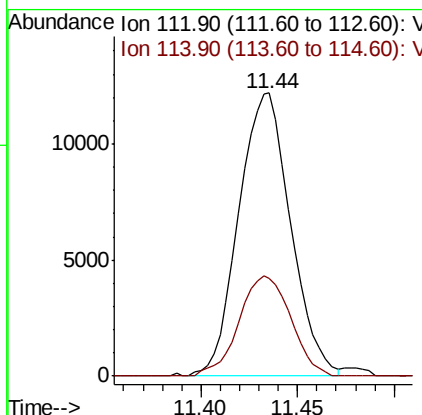
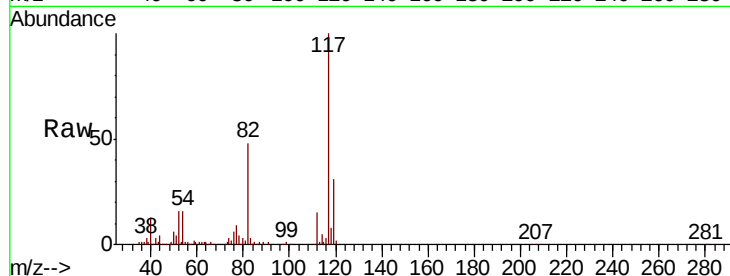
#65
Chlorobenzene
Concen: 0.545 ug/l
RT: 11.44 min Scan# 3005
Delta R.T. 0.00 min
Lab File: VN054166.D
Acq: 12 Mar 2019 16:30

Instrument :
MSVOA_N
ClientSampleId :
LOD-MDL-WATER-01-QT1-2019

Tgt Ion:112 Resp: 22729
Ion Ratio Lower Upper
112 100
114 34.7 25.9 38.9

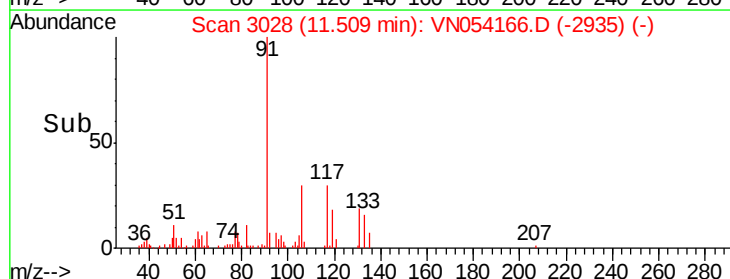
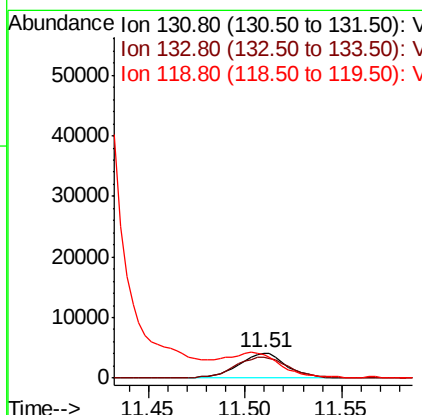
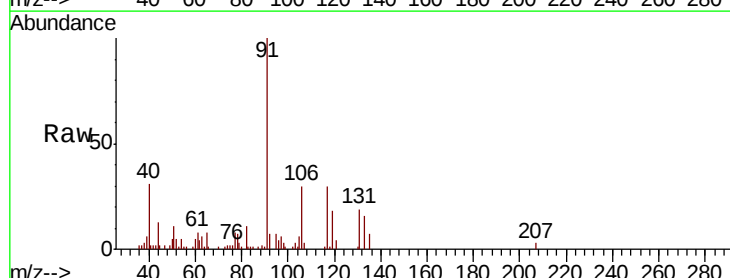
Manual Integrations
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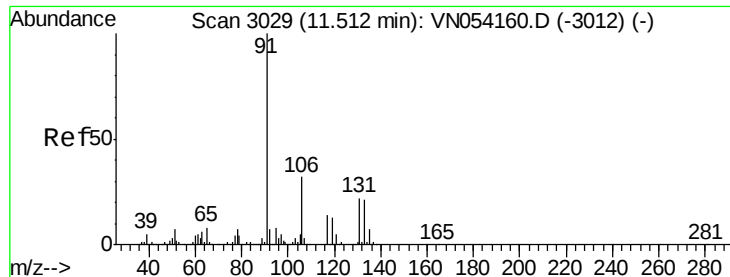
MMDadoda
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#66
1,1,1,2-Tetrachloroethane
Concen: 0.469 ug/l
RT: 11.51 min Scan# 3028
Delta R.T. 0.00 min
Lab File: VN054166.D
Acq: 12 Mar 2019 16:30

Tgt Ion:131 Resp: 7112
Ion Ratio Lower Upper
131 100
133 92.7 47.6 142.9
119 0.0 32.4 97.0#





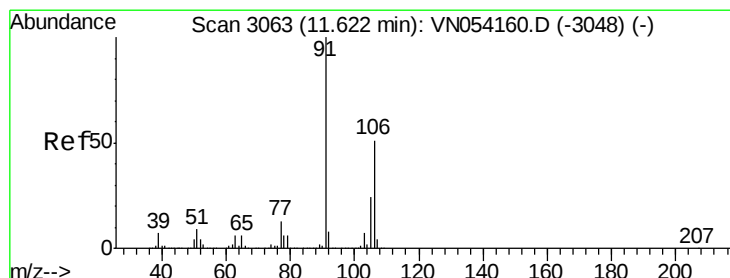
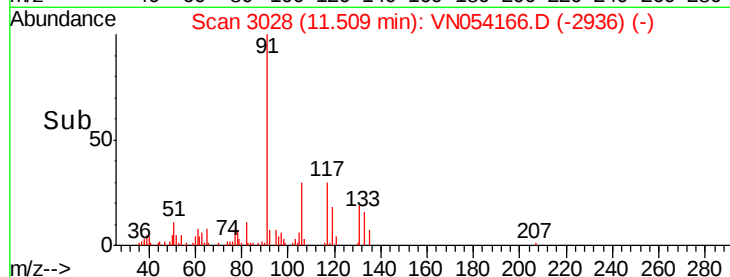
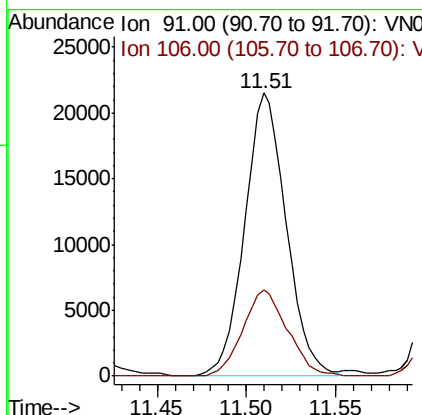
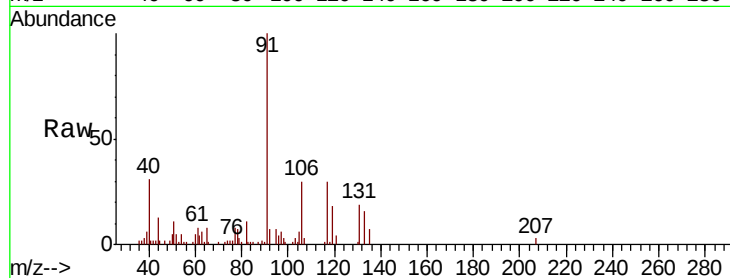
#67
Ethyl Benzene
Concen: 0.508 ug/l
RT: 11.51 min Scan# 3028
Delta R.T. -0.00 min
Lab File: VN054166.D
Acq: 12 Mar 2019 16:30

Instrument :
MSVOA_N
ClientSampleId :
LOD-MDL-WATER-01-QT1-2019

Tgt Ion: 91 Resp: 35128
Ion Ratio Lower Upper
91 100
106 30.5 25.5 38.3

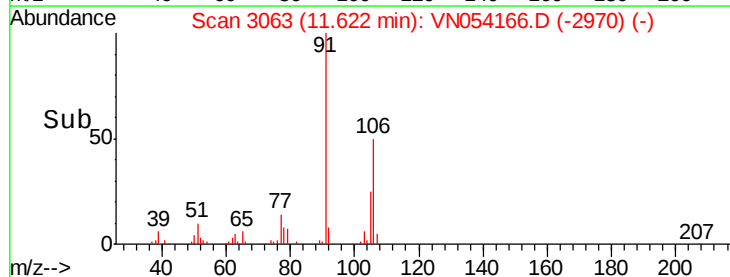
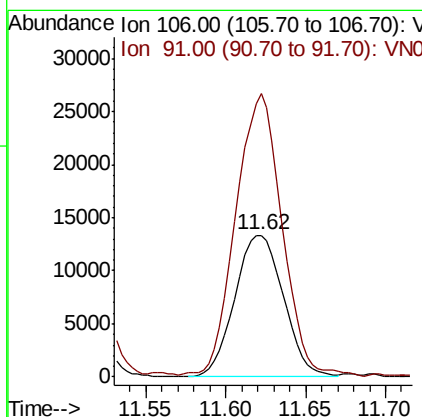
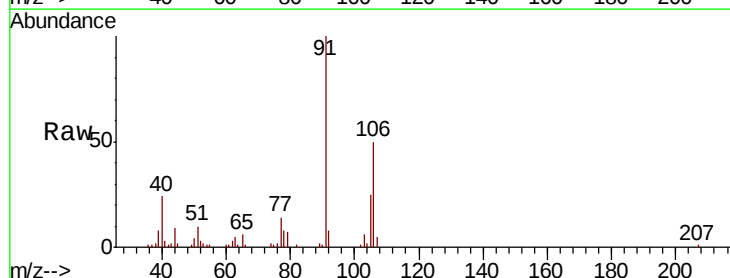
Manual Integrations
APPROVED

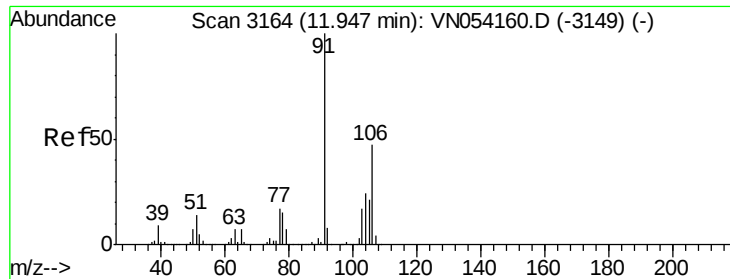
MMDadoda
3/13/2019 11:48:31 AM



#68
m/p-Xylenes
Concen: 1.031 ug/l
RT: 11.62 min Scan# 3063
Delta R.T. 0.00 min
Lab File: VN054166.D
Acq: 12 Mar 2019 16:30

Tgt Ion: 106 Resp: 27852
Ion Ratio Lower Upper
106 100
91 190.7 159.4 239.2





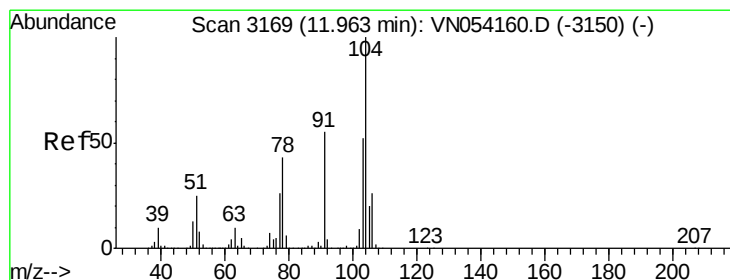
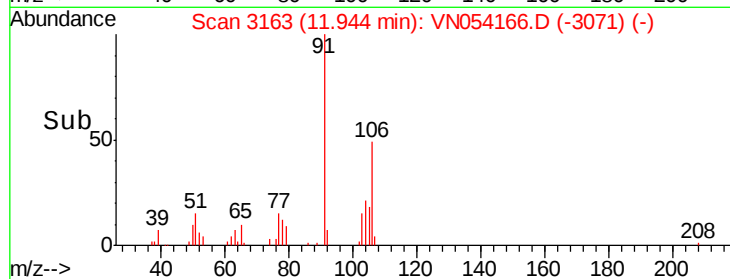
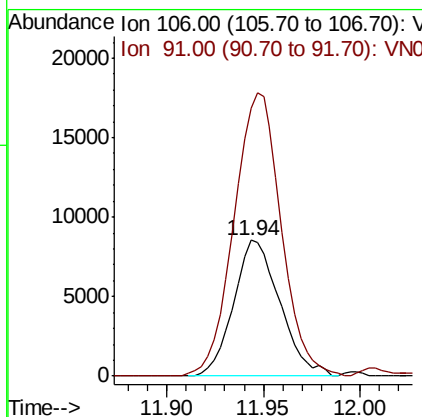
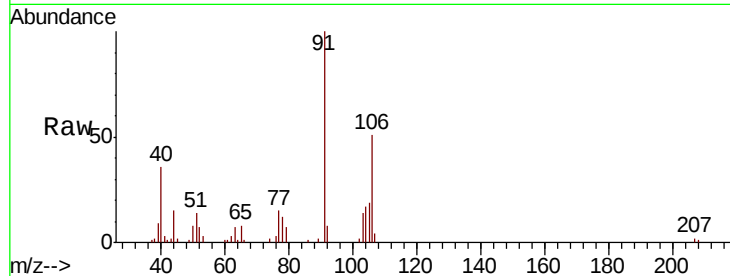
#69
o-Xylene
Concen: 0.541 ug/l
RT: 11.94 min Scan# 3163
Delta R.T. -0.00 min
Lab File: VN054166.D
Acq: 12 Mar 2019 16:30

Instrument :
MSVOA_N
ClientSampleId :
LOD-MDL-WATER-01-QT1-2019

Tgt Ion:106 Resp: 14241
Ion Ratio Lower Upper
106 100
91 211.9 105.7 317.1

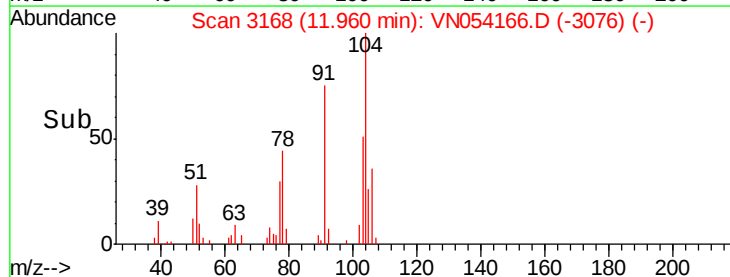
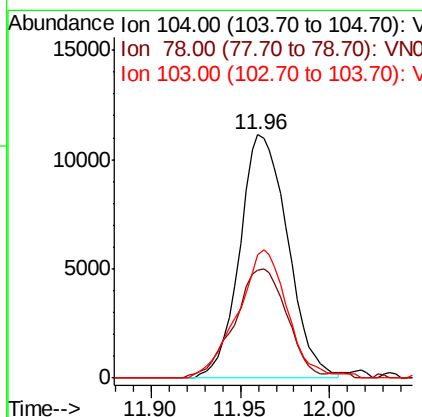
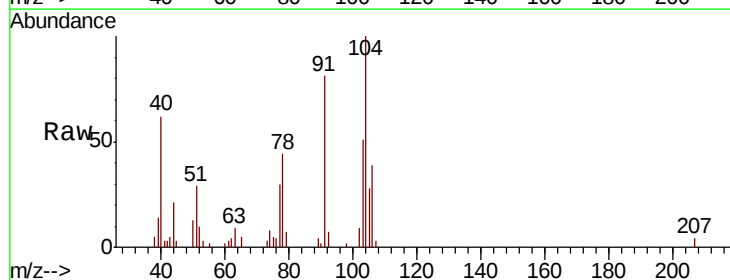
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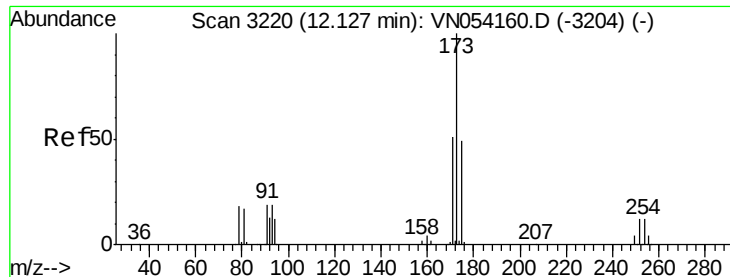
MMDadoda
3/13/2019 11:48:31 AM



#70
Styrene
Concen: 0.507 ug/l
RT: 11.96 min Scan# 3168
Delta R.T. -0.00 min
Lab File: VN054166.D
Acq: 12 Mar 2019 16:30

Tgt Ion:104 Resp: 20945
Ion Ratio Lower Upper
104 100
78 49.1 38.2 57.2
103 54.3 44.4 66.6





#71

Bromoform

Concen: 2.651 ug/l

RT: 12.13 min Scan# 3220

Delta R.T. 0.00 min

Lab File: VN054166.D

Acq: 12 Mar 2019 16:30

Instrument :

MSVOA_N

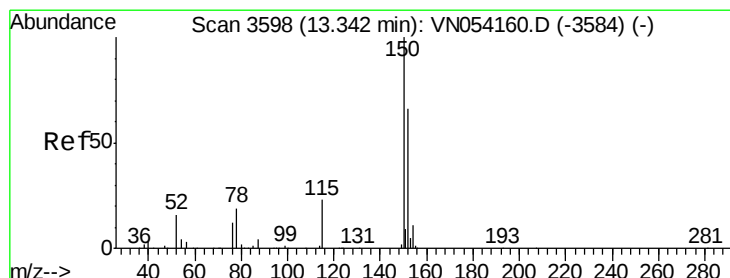
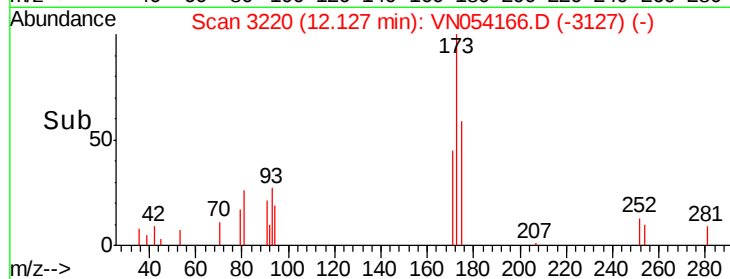
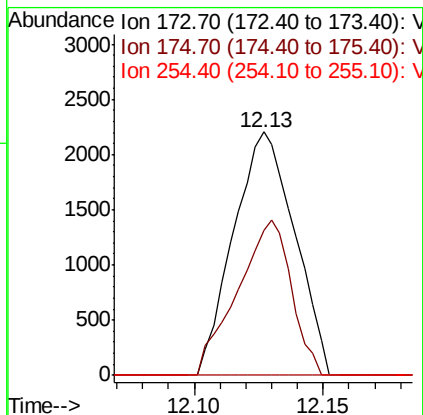
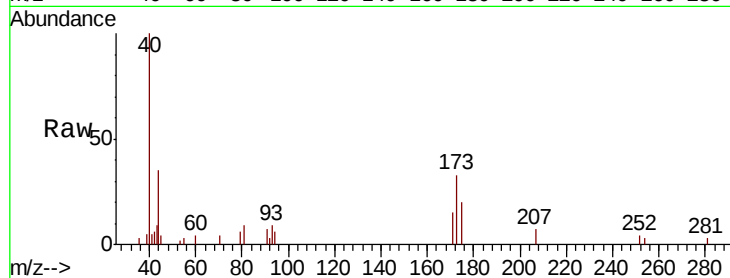
ClientSampleId :

LOD-MDL-WATER-01-QT1-2019

Tgt Ion	Ratio	Lower	Upper
173	100		
175	56.3	24.4	73.2
254	0.0	0.1	0.1#

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3/13/2019 11:48:31 AM



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

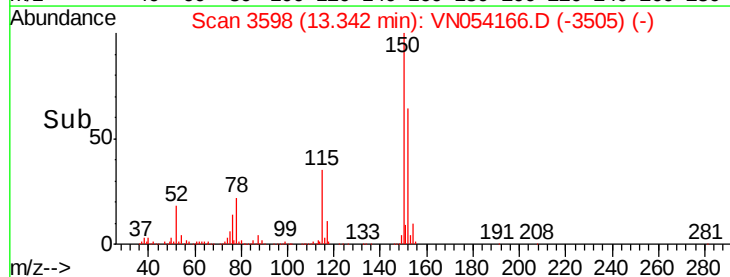
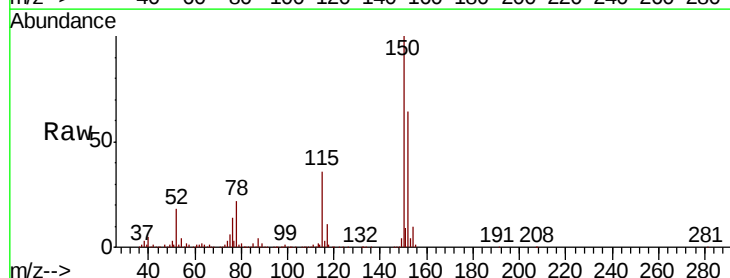
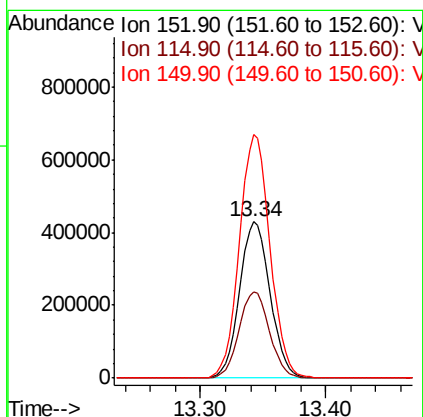
RT: 13.34 min Scan# 3598

Delta R.T. 0.00 min

Lab File: VN054166.D

Acq: 12 Mar 2019 16:30

Tgt Ion	Ratio	Lower	Upper
152	100		
115	54.7	27.2	81.6
150	155.4	0.0	349.2





#73

Isopropylbenzene

Concen: 0.626 ug/l

RT: 12.25 min Scan# 3258

Delta R.T. 0.00 min

Lab File: VN054166.D

Acq: 12 Mar 2019 16:30

Instrument :

MSVOA_N

ClientSampleId :

LOD-MDL-WATER-01-QT1-2019

Tgt Ion: 105 Resp: 36509

Ion Ratio Lower Upper

105 100

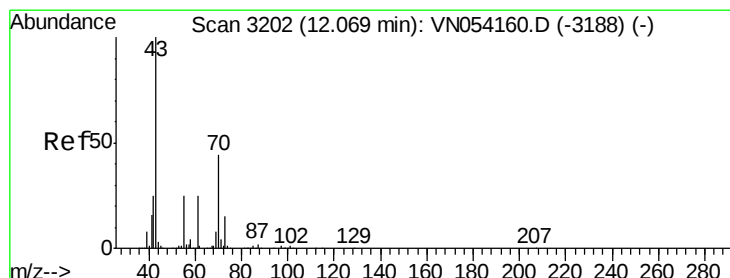
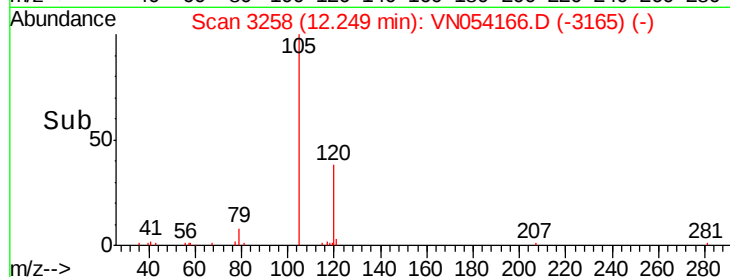
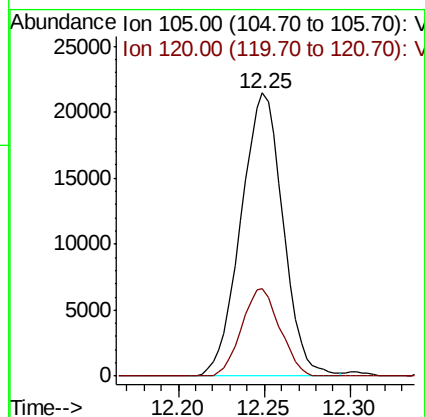
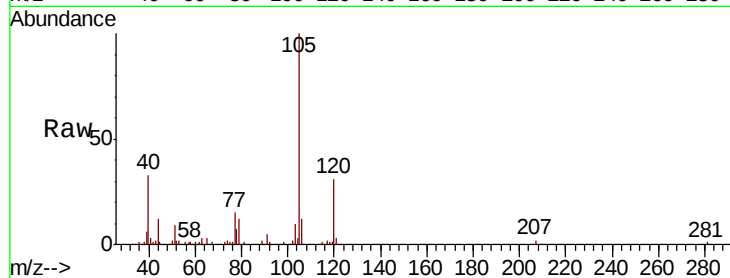
120 27.9 13.8 41.3

Manual Integrations

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MMDadoda

3/13/2019 11:48:31 AM



#74

N-ethyl acetate

Concen: 0.398 ug/l

RT: 12.07 min Scan# 3203

Delta R.T. 0.00 min

Lab File: VN054166.D

Acq: 12 Mar 2019 16:30

Tgt Ion: 43 Resp: 5156

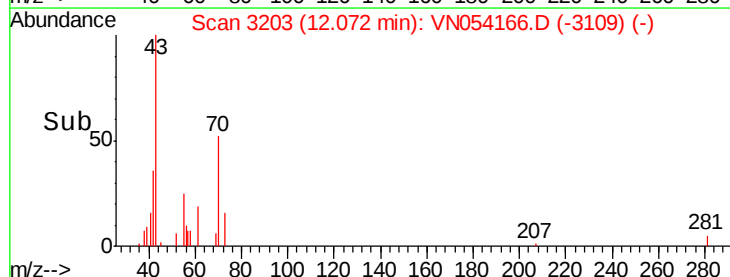
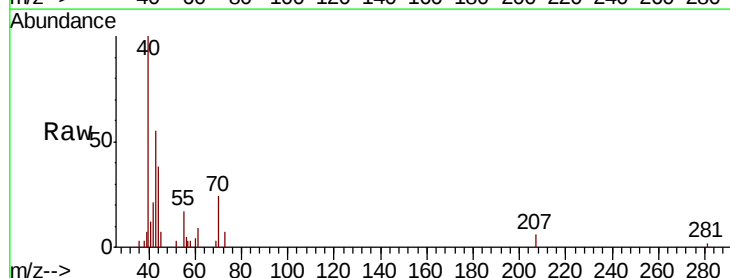
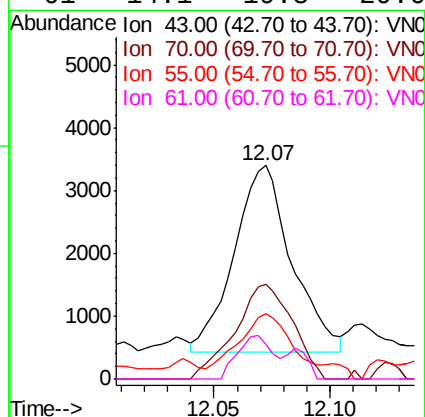
Ion Ratio Lower Upper

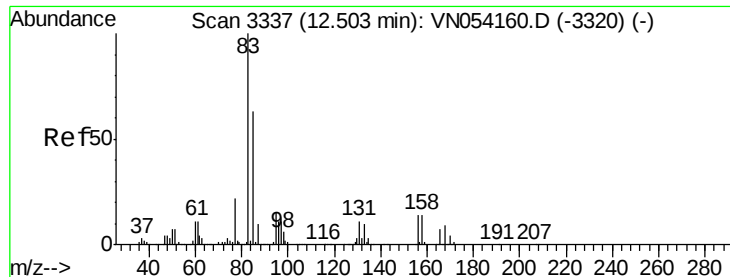
43 100

70 50.1 35.4 53.0

55 36.0 19.8 29.6#

61 14.1 19.8 29.6#





#75

1,1,2,2-Tetrachloroethane

Concen: 0.640 ug/l

RT: 12.50 min Scan# 3337

Delta R.T. 0.00 min

Lab File: VN054166.D

Acq: 12 Mar 2019 16:30

Instrument :

MSVOA_N

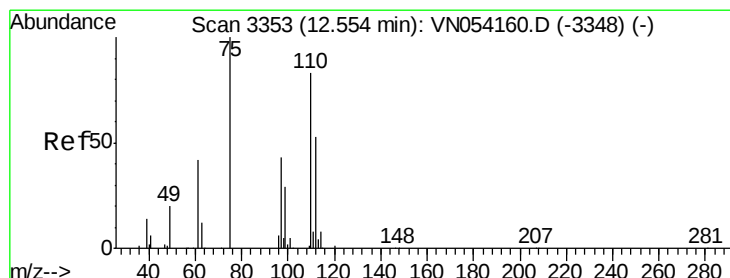
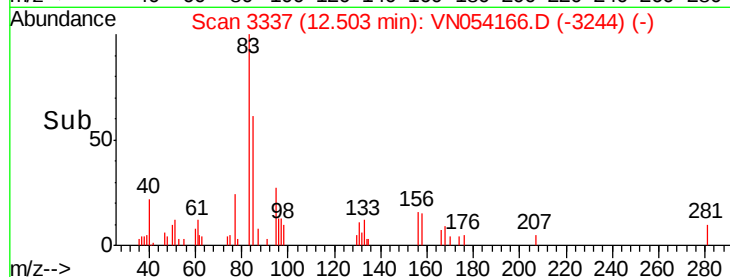
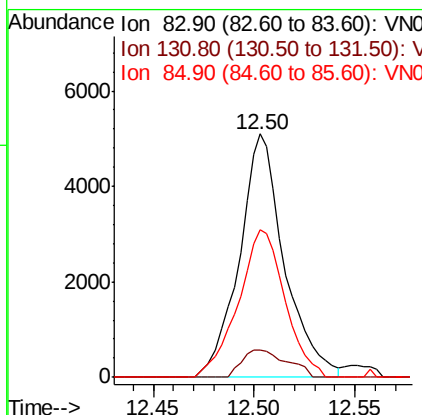
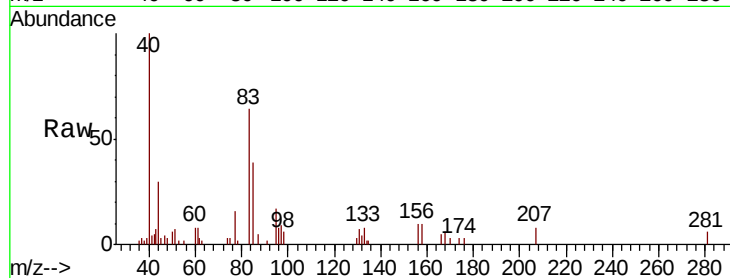
ClientSampleId :

LOD-MDL-WATER-01-QT1-2019

Tgt Ion:	83	Resp:	7963
Ion Ratio	Lower	Upper	
83	100		
131	11.2	5.8	17.4
85	62.6	32.2	96.6

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#76

1,2,3-Trichloropropane

Concen: 0.700 ug/l m

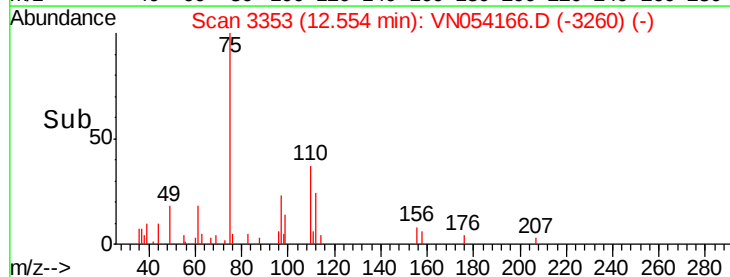
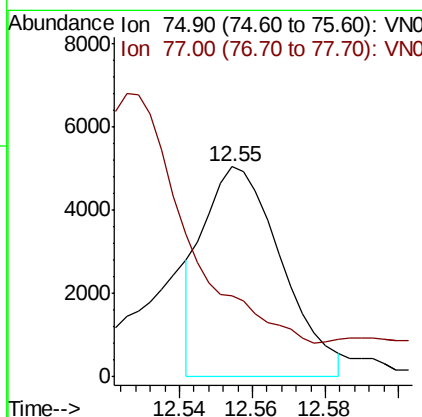
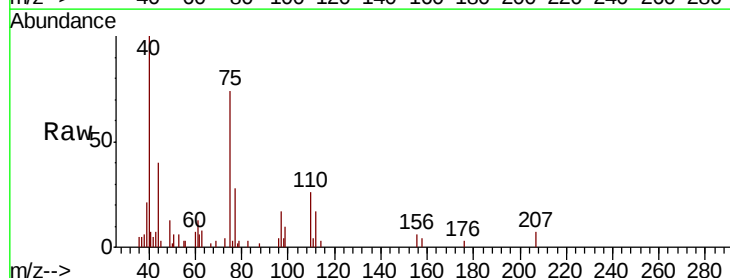
RT: 12.55 min Scan# 3353

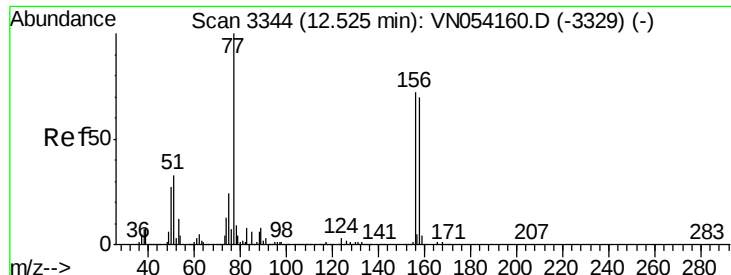
Delta R.T. 0.00 min

Lab File: VN054166.D

Acq: 12 Mar 2019 16:30

Tgt Ion:	75	Resp:	7511
Ion Ratio	Lower	Upper	
75	100		
77	57.6	0.0	0.0#





#77

Bromobenzene

Concen: 0.596 ug/l

RT: 12.53 min Scan# 3344

Delta R.T. 0.00 min

Lab File: VN054166.D

Acq: 12 Mar 2019 16:30

Instrument :

MSVOA_N

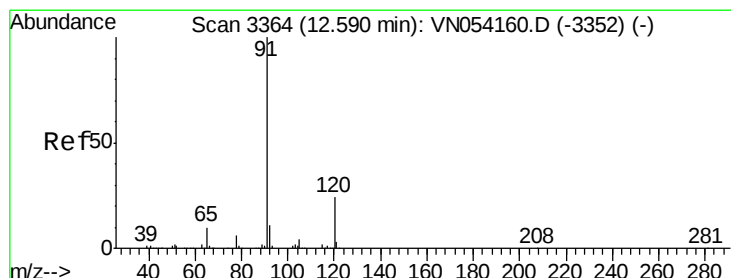
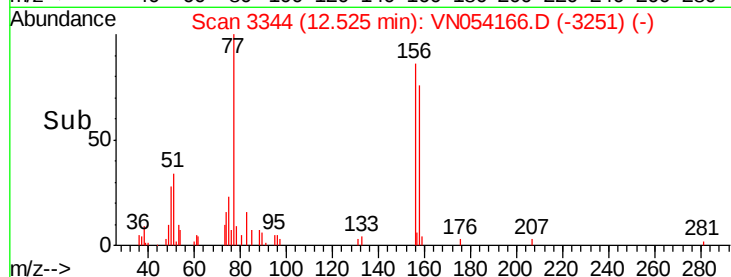
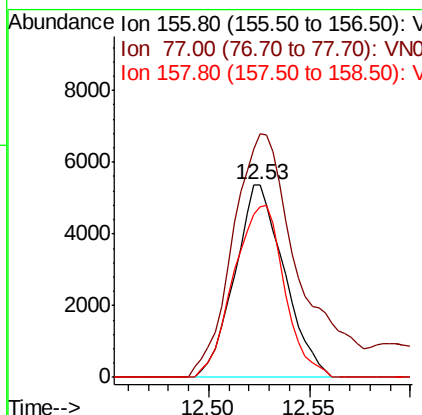
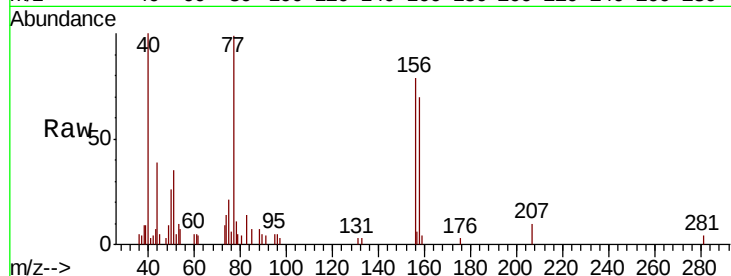
ClientSampleId :

LOD-MDL-WATER-01-QT1-2019

Tgt Ion:	156	Resp:	9211
Ion Ratio	Lower	Upper	
156	100		
77	168.5	81.5	244.4
158	91.7	49.0	147.2

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#78

n-propylbenzene

Concen: 0.621 ug/l

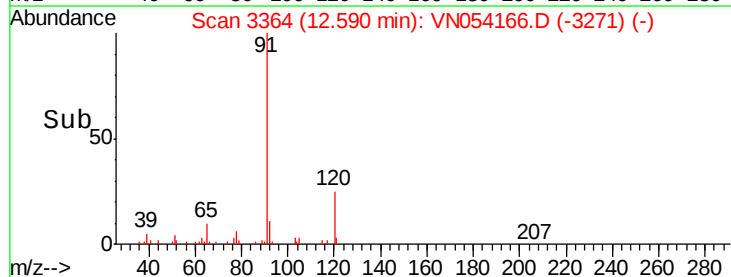
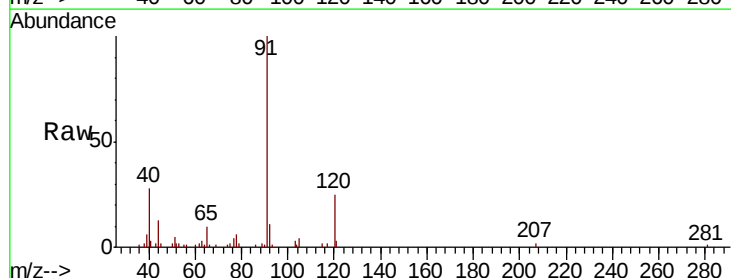
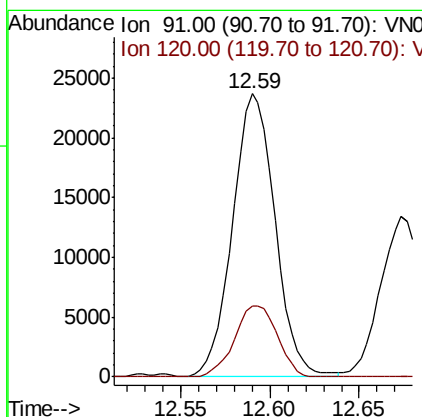
RT: 12.59 min Scan# 3364

Delta R.T. 0.00 min

Lab File: VN054166.D

Acq: 12 Mar 2019 16:30

Tgt Ion:	91	Resp:	39294
Ion Ratio	Lower	Upper	
91	100		
120	25.3	12.3	36.9





#79

2-Chlorotoluene

Concen: 0.603 ug/l

RT: 12.67 min Scan# 3390

Delta R.T. 0.00 min

Lab File: VN054166.D

Acq: 12 Mar 2019 16:30

Instrument :

MSVOA_N

ClientSampleId :

LOD-MDL-WATER-01-QT1-2019

Tgt Ion: 91 Resp: 22953

Ion Ratio Lower Upper

91 100

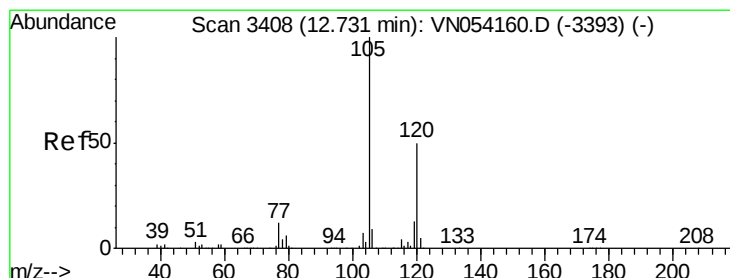
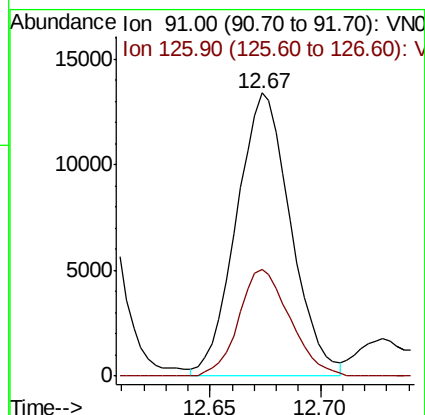
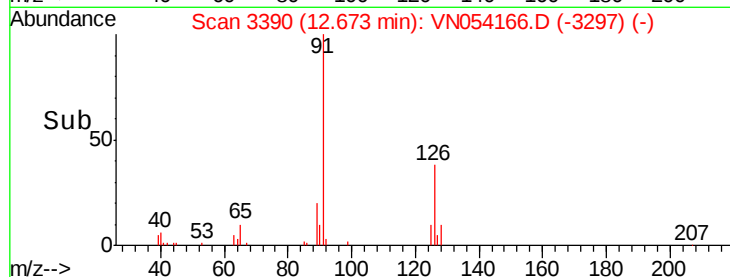
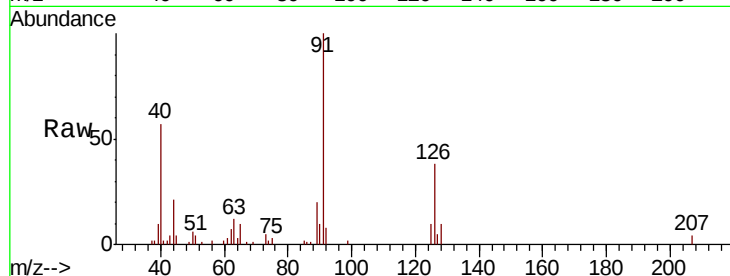
126 35.5 18.7 56.1

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#80

1,3,5-Trimethylbenzene

Concen: 0.535 ug/l

RT: 12.73 min Scan# 3408

Delta R.T. 0.00 min

Lab File: VN054166.D

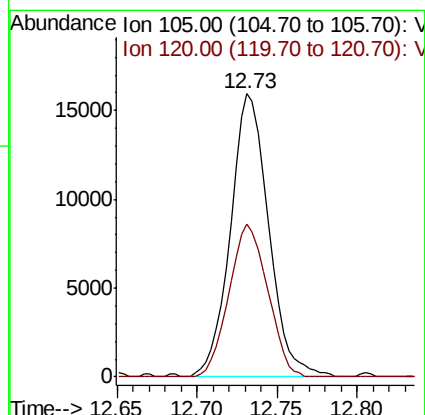
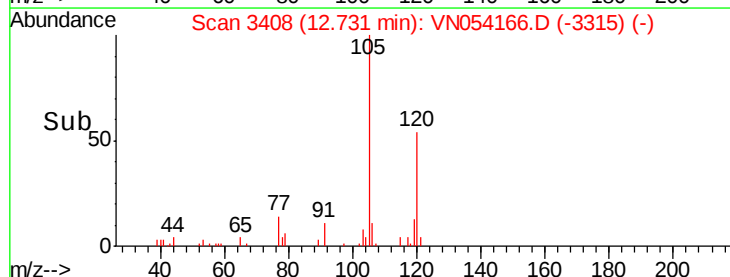
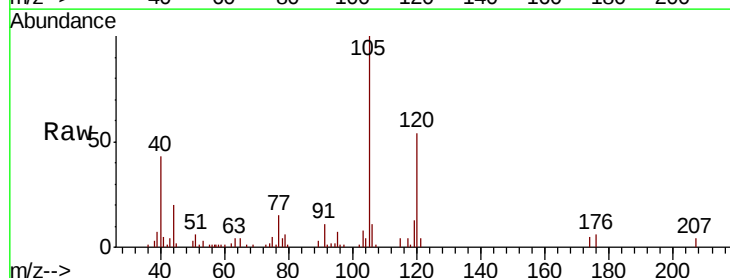
Acq: 12 Mar 2019 16:30

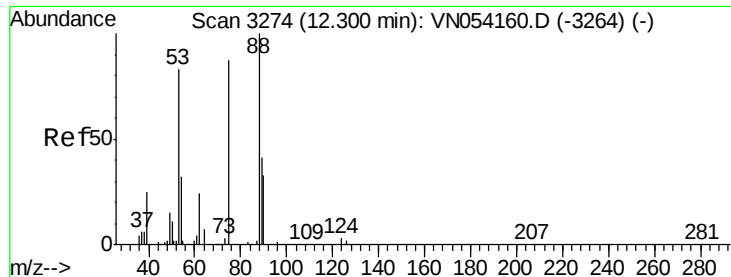
Tgt Ion: 105 Resp: 25967

Ion Ratio Lower Upper

105 100

120 54.5 25.0 75.0





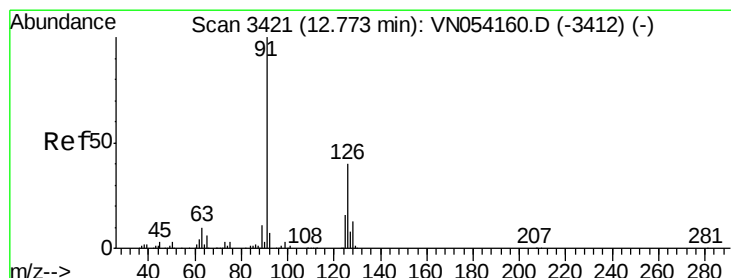
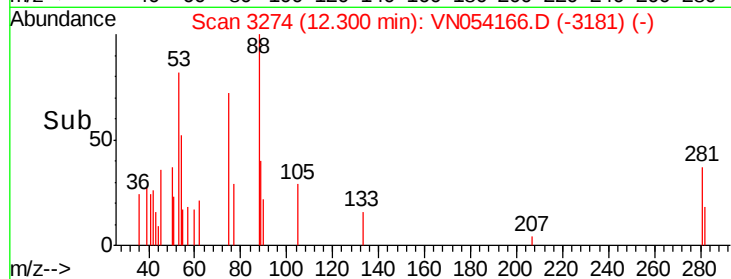
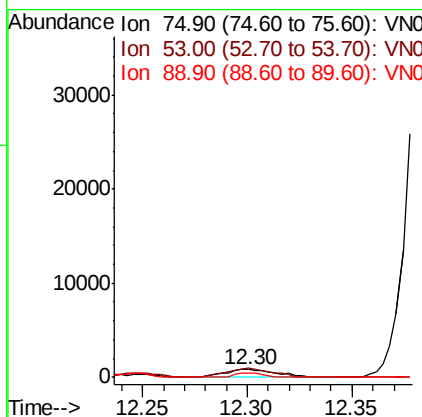
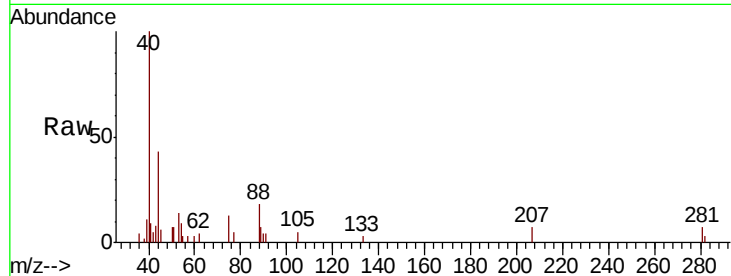
#81
trans-1,4-Dichloro-2-butene
Concen: 0.464 ug/l m
RT: 12.30 min Scan# 3274
Delta R.T. 0.00 min
Lab File: VN054166.D
Acq: 12 Mar 2019 16:30

Instrument :
MSVOA_N
ClientSampleId :
LOD-MDL-WATER-01-QT1-2019

Tgt Ion	Ratio	Lower	Upper
75	100		
53	0.0	76.2	114.2#
89	3.2	39.2	58.8#

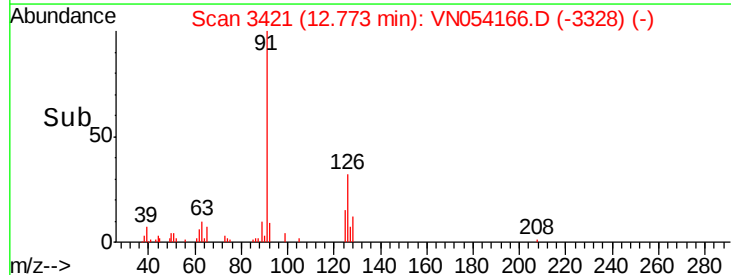
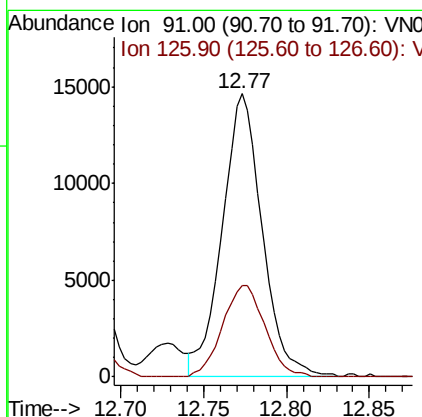
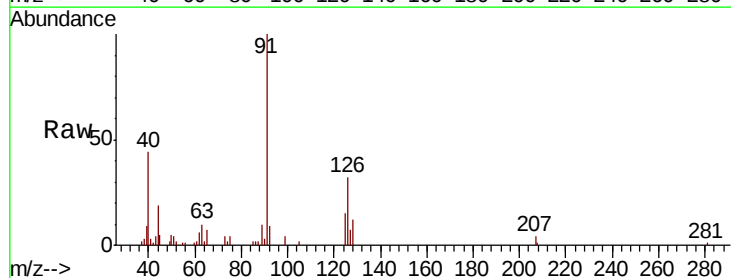
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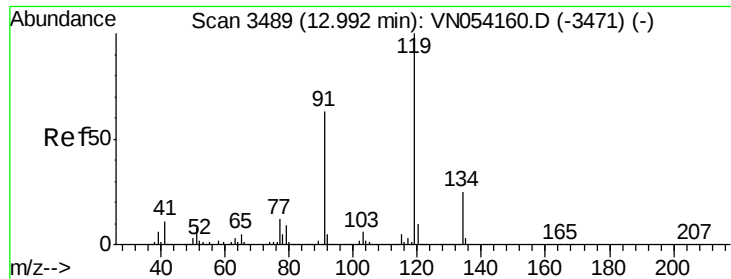
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#82
4-Chlorotoluene
Concen: 0.646 ug/l
RT: 12.77 min Scan# 3421
Delta R.T. 0.00 min
Lab File: VN054166.D
Acq: 12 Mar 2019 16:30

Tgt Ion	Ratio	Lower	Upper
91	100		
126	34.4	18.1	54.1





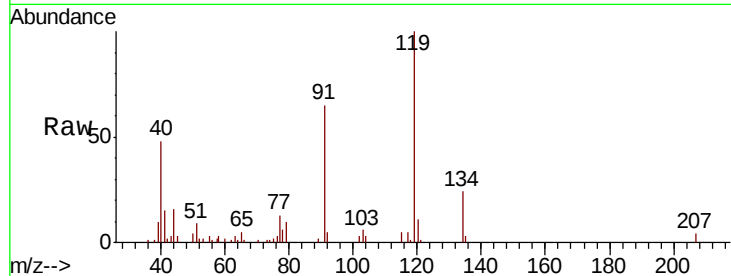
#83
 tert-Butylbenzene
 Concen: 0.554 ug/l
 RT: 12.99 min Scan# 3489
 Delta R.T. 0.00 min
 Lab File: VN054166.D
 Acq: 12 Mar 2019 16:30

Instrument :
 MSVOA_N
 ClientSampleId :
 LOD-MDL-WATER-01-QT1-2019

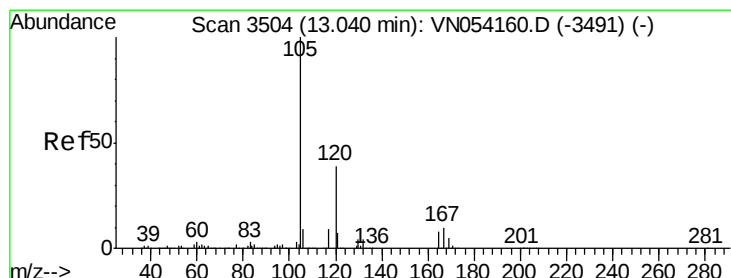
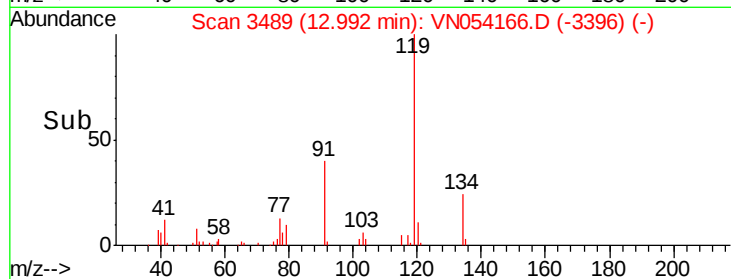
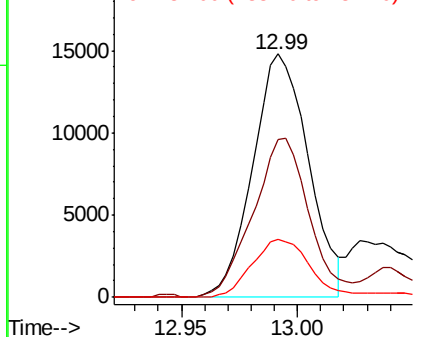
Tgt Ion	Ratio	Resp	Lower	Upper
119	100	24753		
91	65.8	30.9	92.8	
134	25.3	13.2	39.6	

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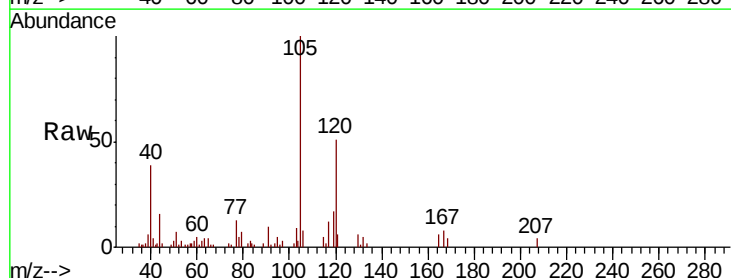


Abundance Ion 119.00 (118.70 to 119.70): V
 Ion 91.00 (90.70 to 91.70): V
 Ion 134.00 (133.70 to 134.70): V

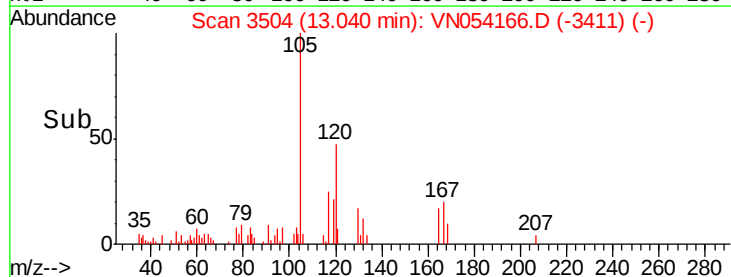
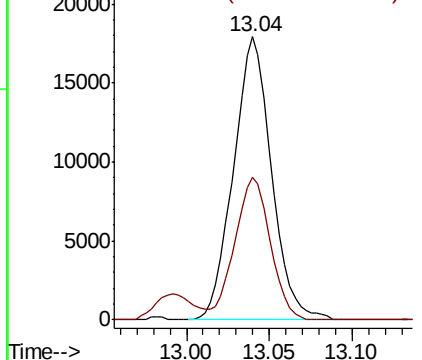


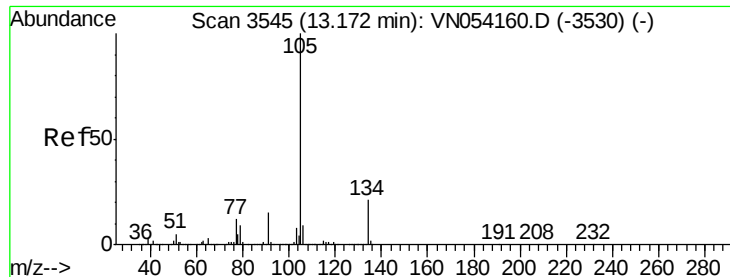
#84
 1,2,4-Trimethylbenzene
 Concen: 0.601 ug/l
 RT: 13.04 min Scan# 3504
 Delta R.T. 0.00 min
 Lab File: VN054166.D
 Acq: 12 Mar 2019 16:30

Tgt Ion	Ratio	Resp	Lower	Upper
105	100	28605		
120	47.2	23.4	70.3	



Abundance Ion 105.00 (104.70 to 105.70): V
 Ion 120.00 (119.70 to 120.70): V





#85

sec-Butylbenzene

Concen: 0.667 ug/l

RT: 13.17 min Scan# 3545

Delta R.T. 0.00 min

Lab File: VN054166.D

Acq: 12 Mar 2019 16:30

Instrument :

MSVOA_N

ClientSampleId :

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Tgt Ion:105 Resp: 38654

Ion Ratio Lower Upper

105 100

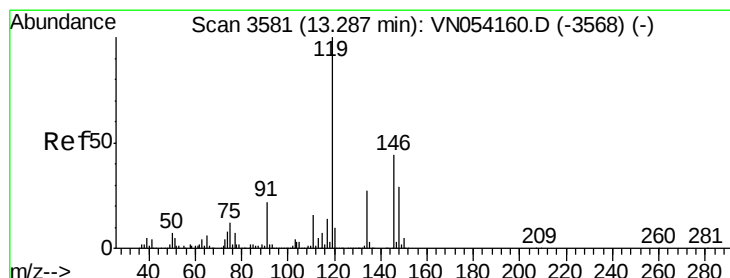
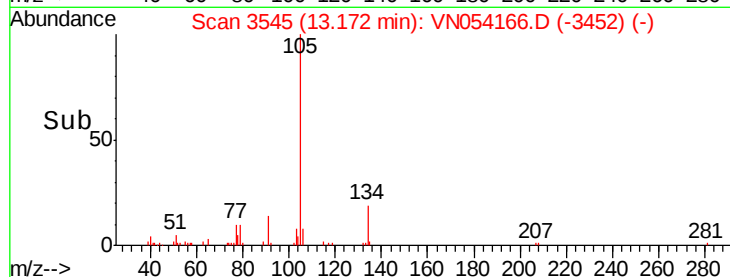
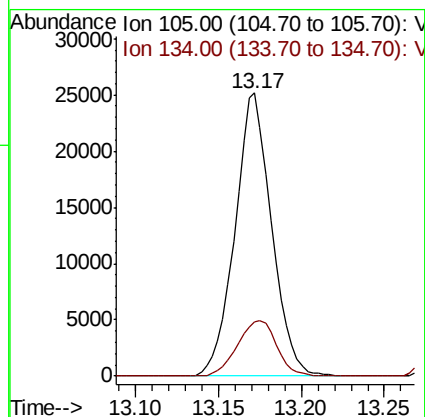
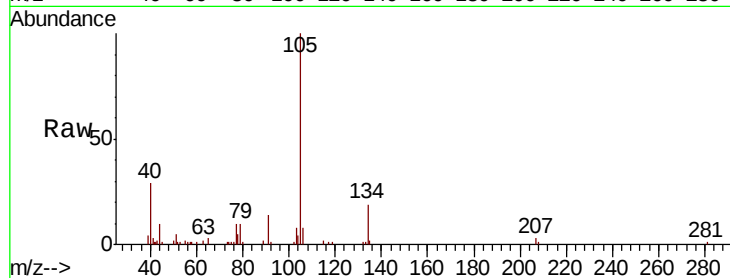
134 20.9 10.7 32.1

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#86

p-Isopropyltoluene

Concen: 0.634 ug/l

RT: 13.29 min Scan# 3581

Delta R.T. 0.00 min

Lab File: VN054166.D

Acq: 12 Mar 2019 16:30

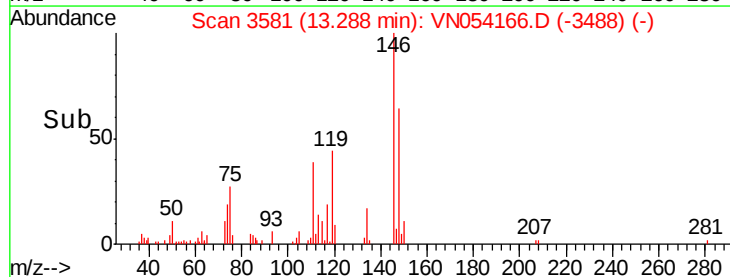
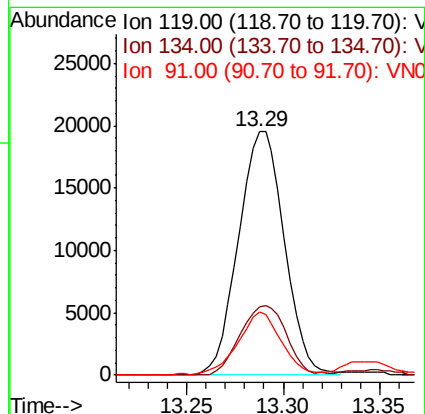
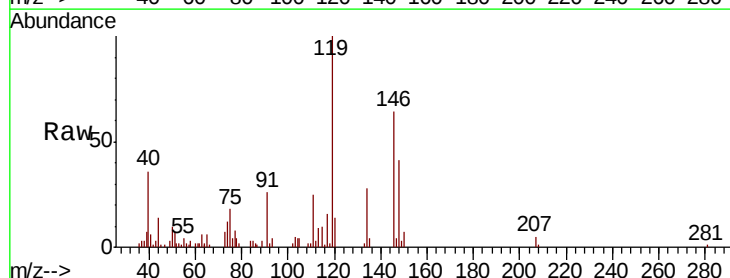
Tgt Ion:119 Resp: 32254

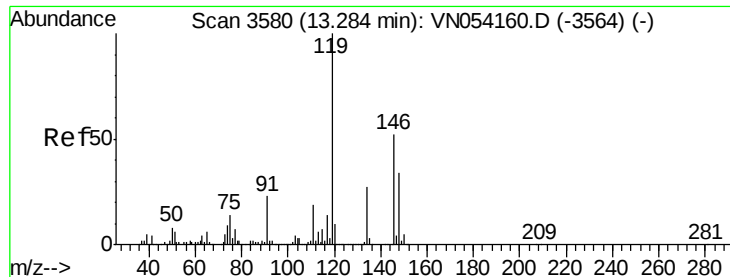
Ion Ratio Lower Upper

119 100

134 28.8 13.6 40.8

91 24.4 11.1 33.3





#87

1,3-Dichlorobenzene

Concen: 0.865 ug/l

RT: 13.28 min Scan# 3580

Delta R.T. 0.00 min

Lab File: VN054166.D

Acq: 12 Mar 2019 16:30

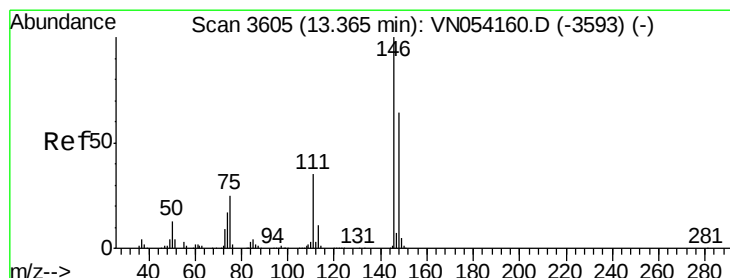
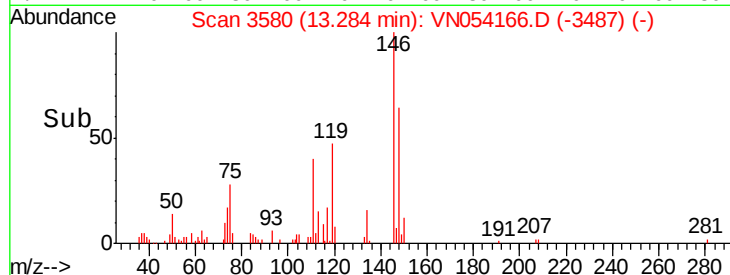
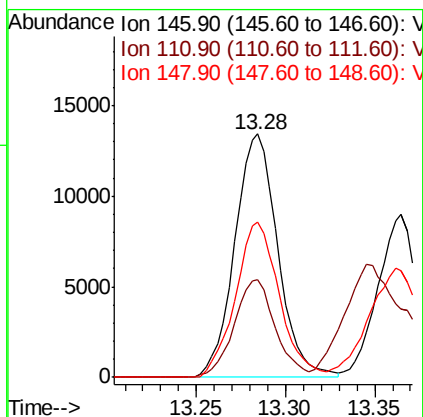
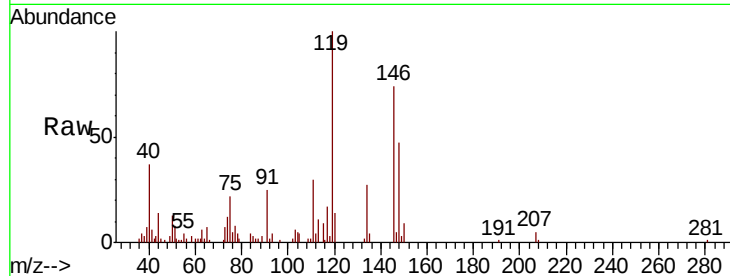
Instrument :
MSVOA_N

ClientSampleId :
LOD-MDL-WATER-01-QT1-2019

Tgt Ion	Ratio	Resp	Lower	Upper
146	100	22512		
111	38.5	18.8	56.3	
148	65.2	32.2	96.6	

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#88

1,4-Dichlorobenzene

Concen: 0.569 ug/l m

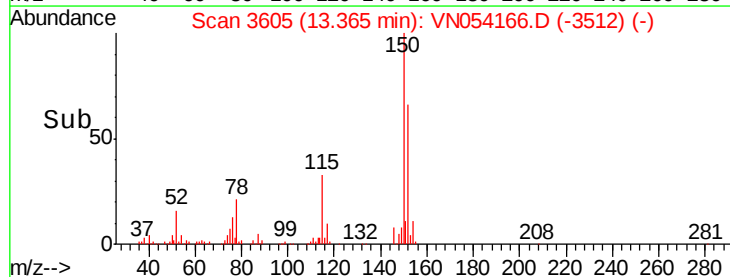
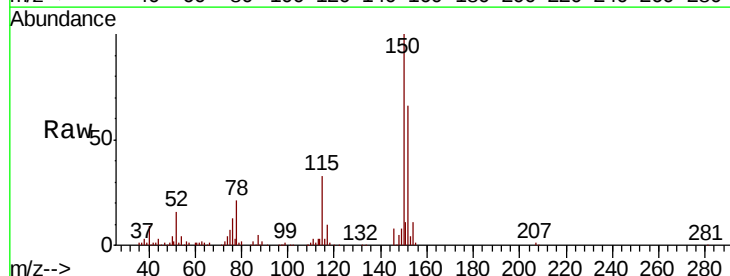
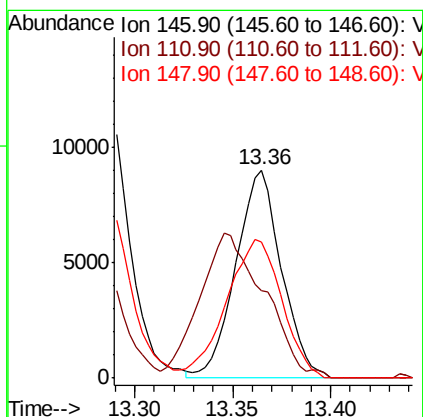
RT: 13.36 min Scan# 3605

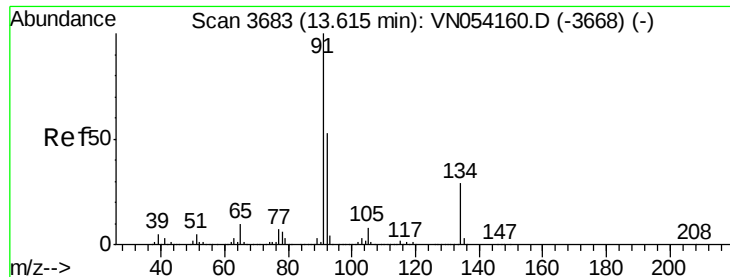
Delta R.T. 0.00 min

Lab File: VN054166.D

Acq: 12 Mar 2019 16:30

Tgt Ion	Ratio	Resp	Lower	Upper
146	100	14533		
111	59.7	18.1	54.1#	
148	101.0	32.0	96.0#	





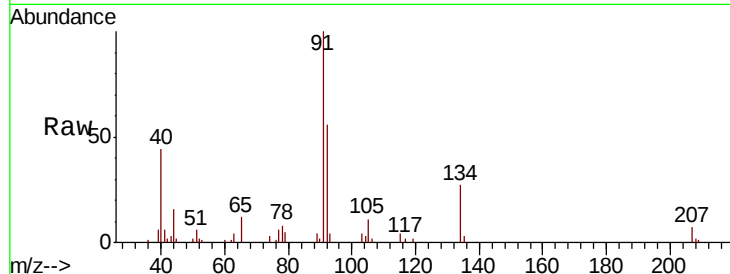
#89
n-Butylbenzene
Concen: 0.635 ug/l
RT: 13.62 min Scan# 3683
Delta R.T. 0.00 min
Lab File: VN054166.D
Acq: 12 Mar 2019 16:30

Instrument :
MSVOA_N
ClientSampleId :
LOD-MDL-WATER-01-QT1-2019

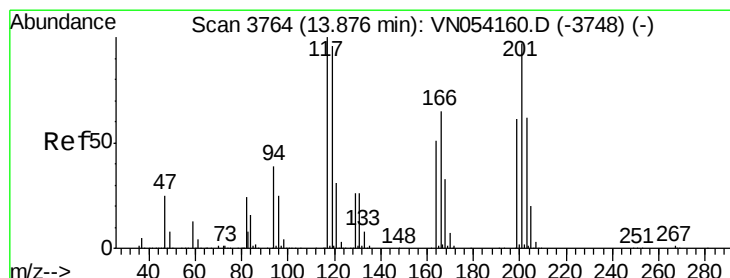
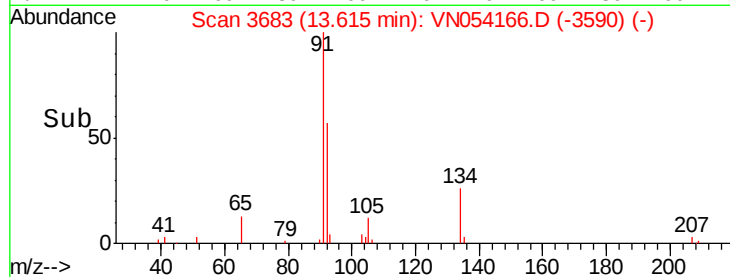
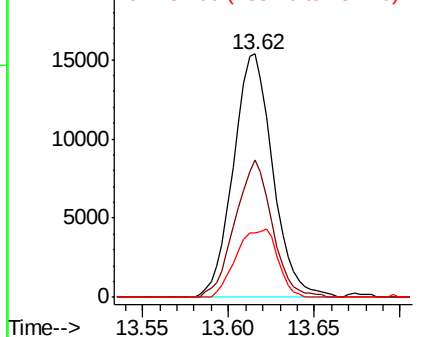
Tgt Ion: 91 Resp: 24534
Ion Ratio Lower Upper
91 100
92 52.9 26.2 78.6
134 29.2 14.3 42.9

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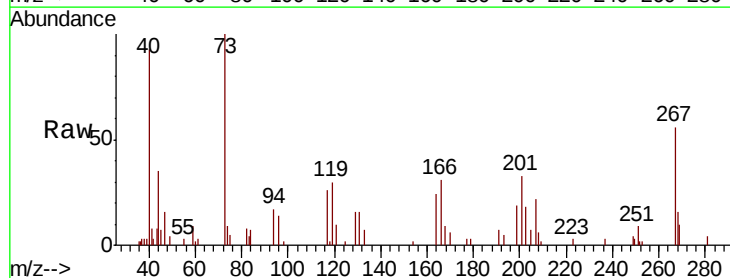


Abundance Ion 91.00 (90.70 to 91.70): VN0
Ion 92.00 (91.70 to 92.70): VN0
Ion 134.00 (133.70 to 134.70): V

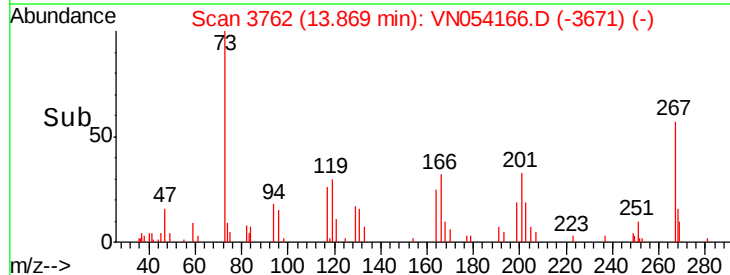
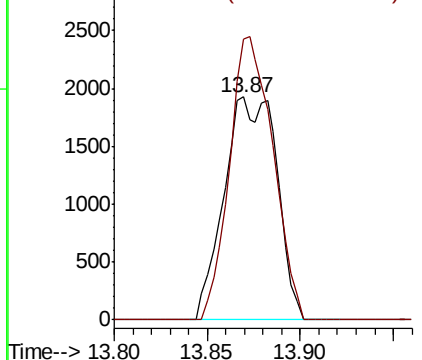


#90
Hexachloroethane
Concen: 0.451 ug/l m
RT: 13.87 min Scan# 3762
Delta R.T. -0.01 min
Lab File: VN054166.D
Acq: 12 Mar 2019 16:30

Tgt Ion: 117 Resp: 3794
Ion Ratio Lower Upper
117 100
201 104.8 48.1 144.4



Abundance Ion 116.80 (116.50 to 117.50): V
Ion 200.70 (200.40 to 201.40): V





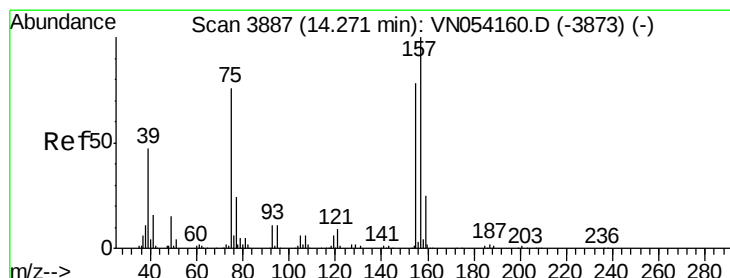
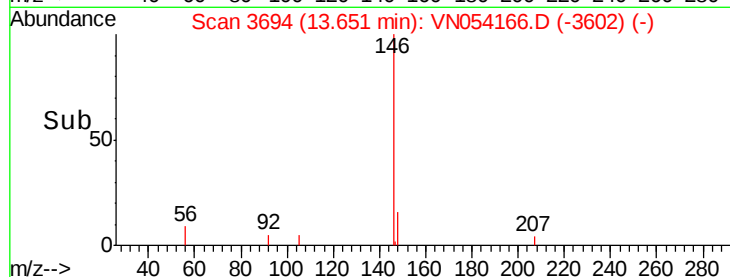
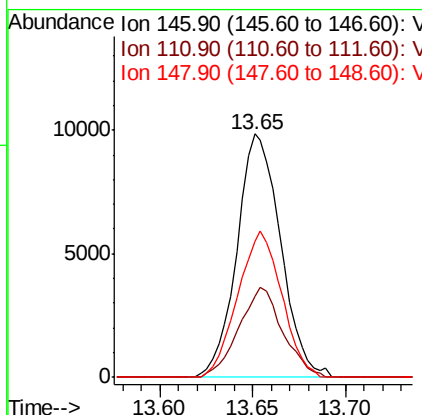
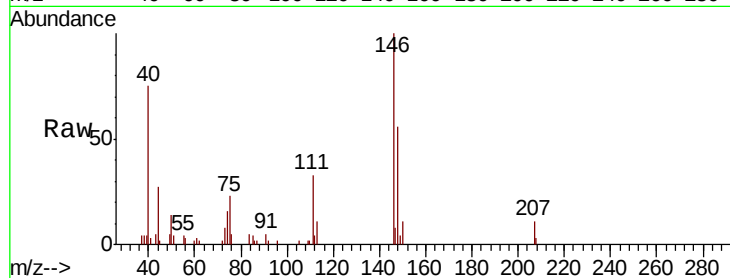
#91
 1,2-Dichlorobenzene
 Concen: 0.636 ug/l
 RT: 13.65 min Scan# 3694
 Delta R.T. -0.00 min
 Lab File: VN054166.D
 Acq: 12 Mar 2019 16:30

Instrument :
 MSVOA_N
 ClientSampleId :
 LOD-MDL-WATER-01-QT1-2019

Tgt Ion	Ratio	Lower	Upper
146	100		
111	37.0	19.1	57.3
148	60.5	32.4	97.0

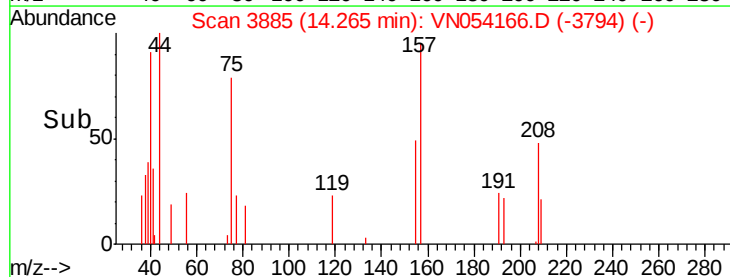
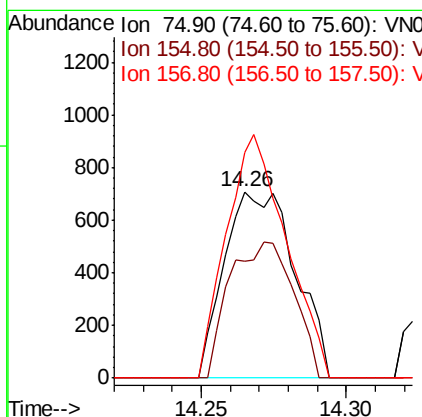
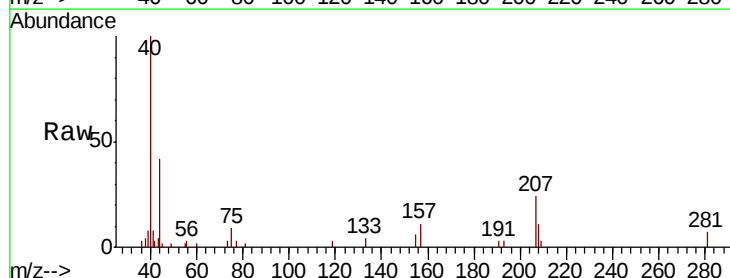
Manual Integrations
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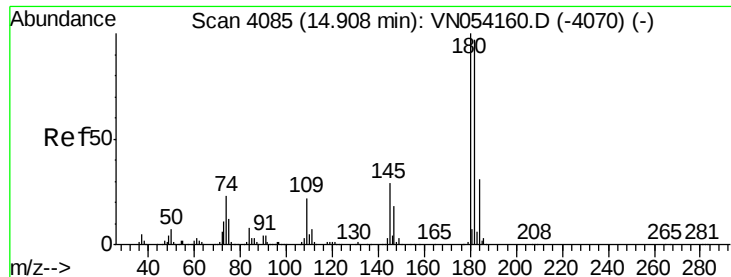
MMDadoda
 3/13/2019 11:48:31 AM



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 0.623 ug/l
 RT: 14.26 min Scan# 3885
 Delta R.T. -0.01 min
 Lab File: VN054166.D
 Acq: 12 Mar 2019 16:30

Tgt Ion	Ratio	Lower	Upper
75	100		
155	65.9	50.1	150.3
157	110.7	63.1	189.3





#93

1,2,4-Trichlorobenzene

Concen: 3.486 ug/l

RT: 14.91 min Scan# 4086

Delta R.T. 0.00 min

Lab File: VN054166.D

Acq: 12 Mar 2019 16:30

Instrument :

MSVOA_N

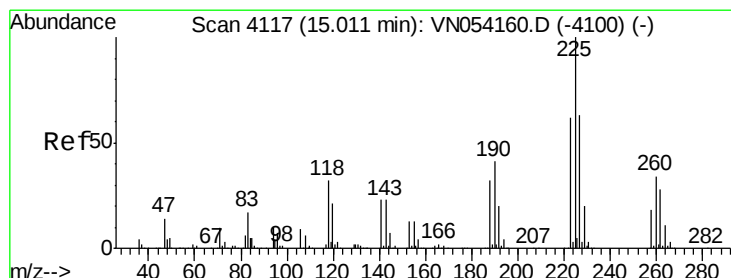
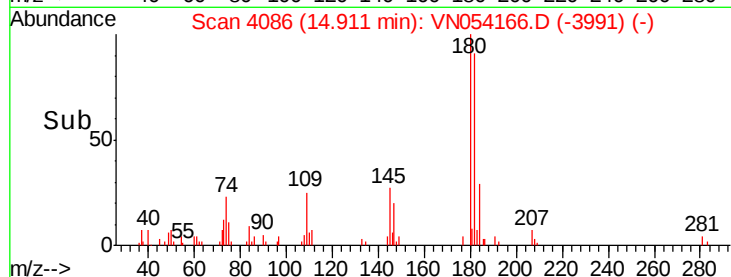
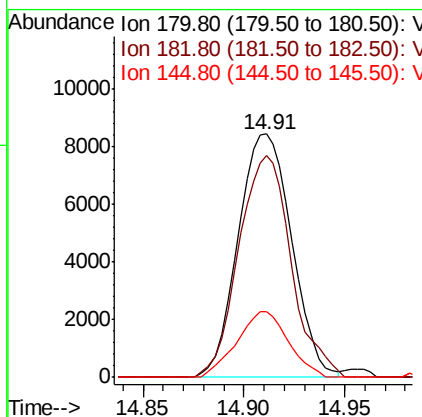
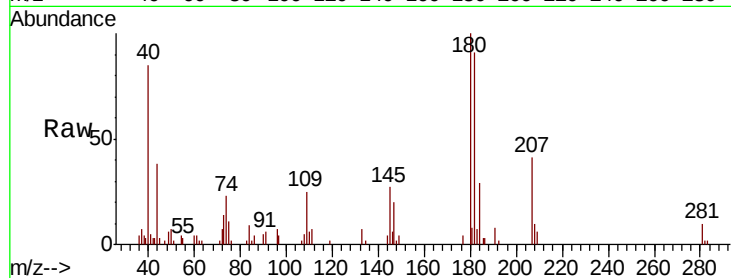
ClientSampleId :

LOD-MDL-WATER-01-QT1-2019

Tgt Ion:	180	Resp:	15671
Ion Ratio	Lower	Upper	
180	100		
182	89.1	48.0	144.2
145	26.0	14.2	42.8

Manual Integrations
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3/13/2019 11:48:31 AM



#94

Hexachlorobutadiene

Concen: 1.443 ug/l

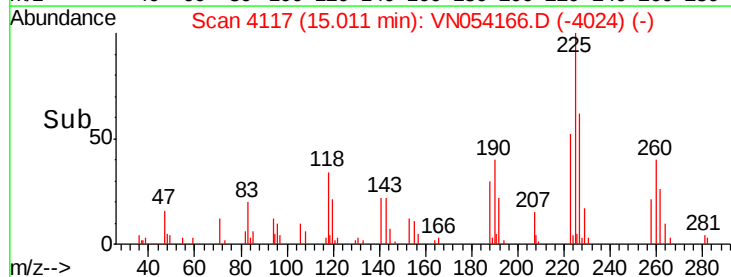
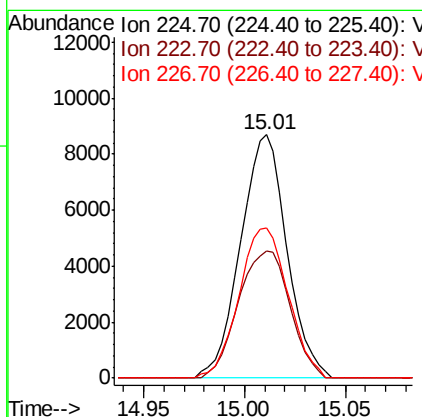
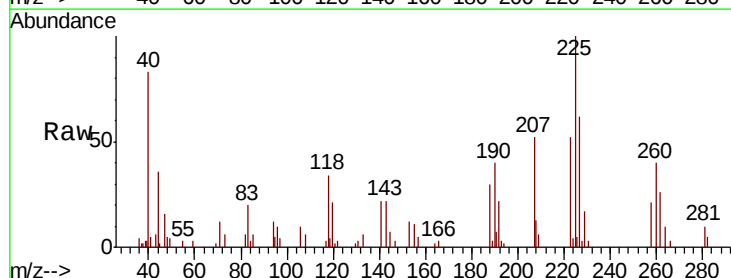
RT: 15.01 min Scan# 4117

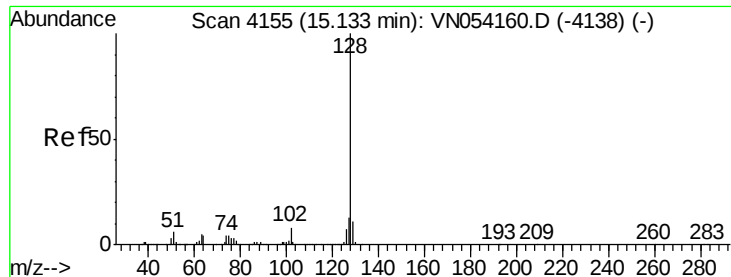
Delta R.T. 0.00 min

Lab File: VN054166.D

Acq: 12 Mar 2019 16:30

Tgt Ion:	225	Resp:	13985
Ion Ratio	Lower	Upper	
225	100		
223	58.2	31.1	93.5
227	65.2	31.9	95.9





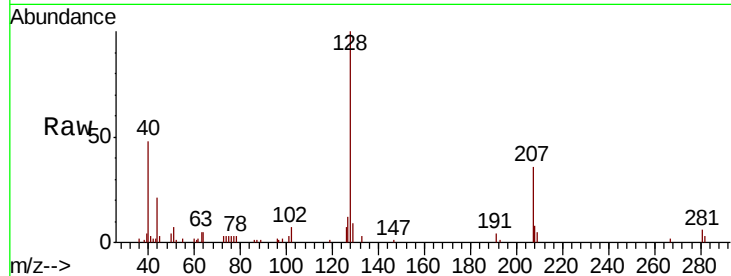
#95
Naphthalene
Concen: 4.199 ug/l
RT: 15.13 min Scan# 4155
Delta R.T. 0.00 min
Lab File: VN054166.D
Acq: 12 Mar 2019 16:30

Instrument :
MSVOA_N
ClientSampleId :
LOD-MDL-WATER-01-QT1-2019

Tgt Ion	Ratio	Resp	Lower	Upper
128	100	25075		
127	12.6	10.1	15.1	
129	10.7	8.7	13.1	

Manual Integrations
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MMDadoda
3/13/2019 11:48:31 AM

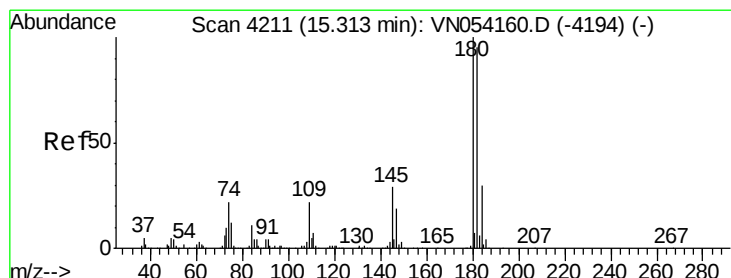
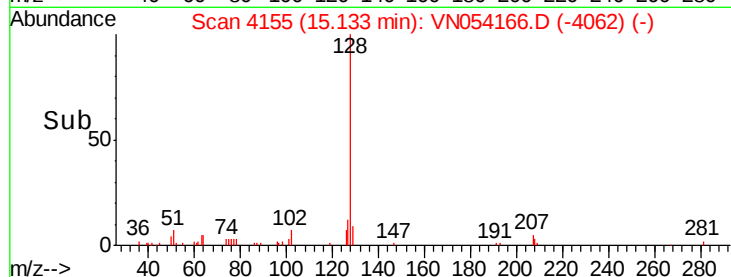
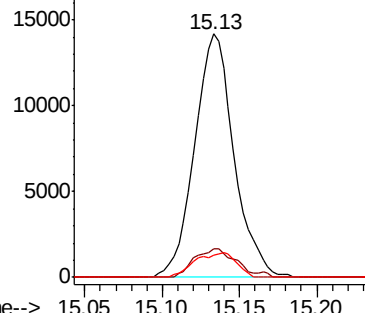


Abundance

Ion 128.00 (127.70 to 128.70): V

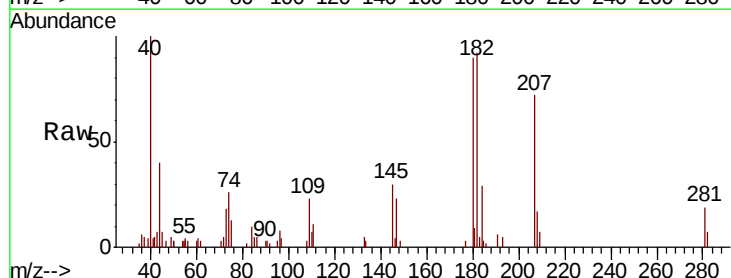
Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V



#96
1,2,3-Trichlorobenzene
Concen: 0.844 ug/l
RT: 15.32 min Scan# 4212
Delta R.T. 0.00 min
Lab File: VN054166.D
Acq: 12 Mar 2019 16:30

Tgt Ion	Ratio	Resp	Lower	Upper
180	100	11410		
182	95.6	47.5	142.6	
145	29.7	14.8	44.3	



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

