

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN032119\
 Data File : VN054540.D
 Acq On : 22 Mar 2019 5:29
 Operator : JC/SP
 Sample : K1989-04
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 39 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 DRUM-1-2

Manual Integrations
 APPROVED

MMDadoda
 3/22/2019 4:16:57 PM

Quant Time: Mar 22 11:00:41 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N032019W.M
 Quant Title : SW846 8260
 QLast Update : Fri Mar 22 02:09:07 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.66	168	754853	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1164694	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	995793	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	399113	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.03	65	443680	47.25	ug/l	0.00
Spiked Amount 50.000			Recovery	=	94.50%	
35) Dibromofluoromethane	7.59	113	340823	45.42	ug/l	0.00
Spiked Amount 50.000			Recovery	=	90.84%	
50) Toluene-d8	10.09	98	1392608	49.37	ug/l	0.00
Spiked Amount 50.000			Recovery	=	98.74%	
62) 4-Bromofluorobenzene	12.40	95	450480	46.93	ug/l	0.00
Spiked Amount 50.000			Recovery	=	93.86%	
Target Compounds						
					Qvalue	
11) Tert butyl alcohol	4.83	59	92030	161.899	ug/l	99
16) Acetone	3.79	43	55589434m	19692.605	ug/l	
18) Methyl Acetate	4.33	43	438527	69.698	ug/l #	88
19) Methyl tert-butyl Ether	5.06	73	78412	3.690	ug/l	97
20) Methylene Chloride	4.55	84	29143	3.502	ug/l #	81
25) 2-Butanone	6.85	43	137270	37.961	ug/l #	89
40) Benzene	8.04	78	62267	2.000	ug/l	100
51) 4-Methyl-2-Pentanone	9.99	43	353372	48.745	ug/l	93
52) Toluene	10.14	92	26806641m	1399.613	ug/l	
67) Ethyl Benzene	11.51	91	118097	3.301	ug/l	95
68) m/p-Xylenes	11.62	106	131561	9.709	ug/l	92
69) o-Xylene	11.95	106	83832	6.335	ug/l	96
73) Isopropylbenzene	12.25	105	21693	0.675	ug/l	94
78) n-propylbenzene	12.59	91	43608	1.250	ug/l	96
80) 1,3,5-Trimethylbenzene	12.73	105	63460	2.408	ug/l	92
84) 1,2,4-Trimethylbenzene	13.04	105	270536	10.460	ug/l	96
95) Naphthalene	15.13	128	38073	2.674	ug/l	99

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

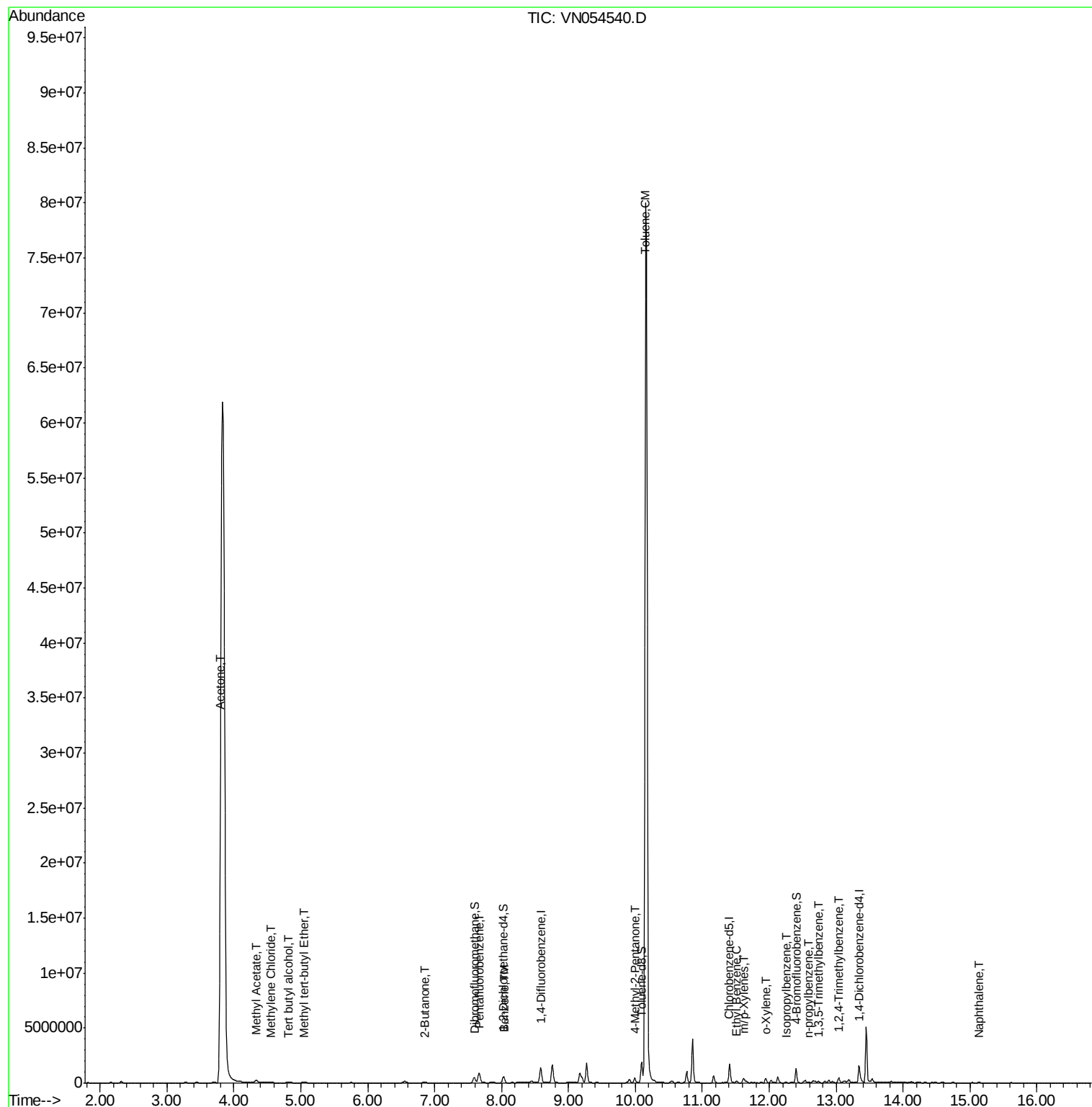
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA N\DATA\VN032119\
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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_N\METHODS\82N032019W.M
Quant Title : SW846 8260
QLast Update : Fri Mar 22 02:09:07 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. -0.00 min

Lab File: VN054540.D

Acq: 22 Mar 2019 5:29

Instrument :

MSVOA_N

ClientSampleId :

DRUM-1-2

Tot Ion:168 Resp: 754853

Ion Ratio Lower Upper

168 100

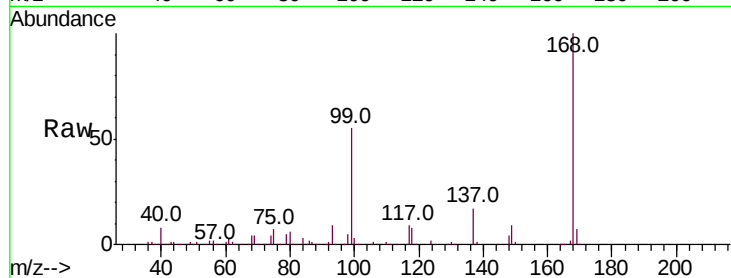
99 55.0 37.1 55.7

Manual Integrations

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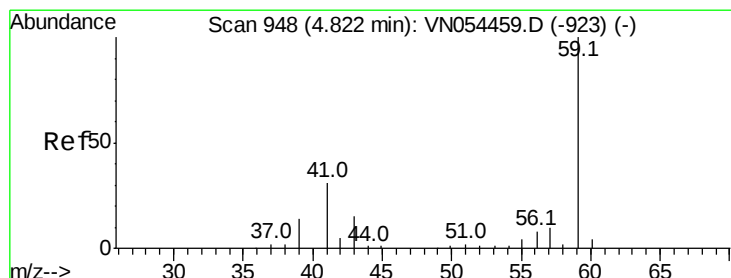
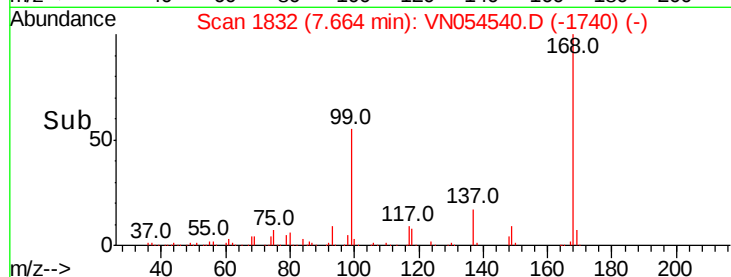
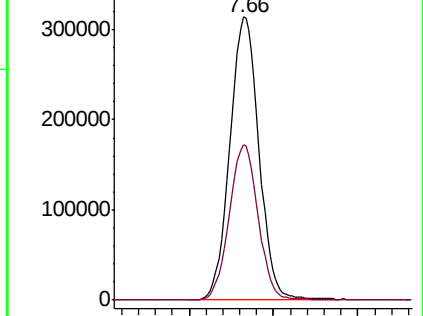
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Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO



#11

Tert butyl alcohol

Concen: 161.899 ug/l

RT: 4.83 min Scan# 950

Delta R.T. 0.01 min

Lab File: VN054540.D

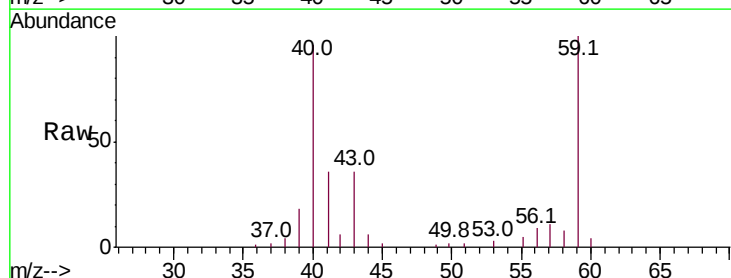
Acq: 22 Mar 2019 5:29

Tgt Ion: 59 Resp: 92030

Ion Ratio Lower Upper

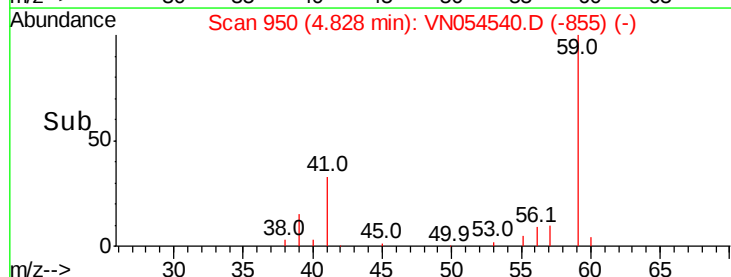
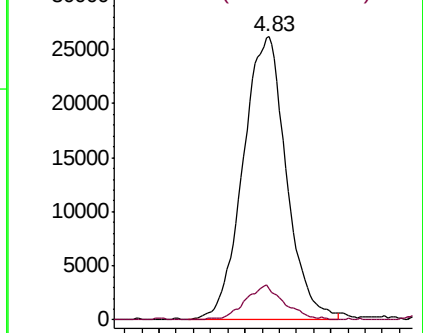
59 100

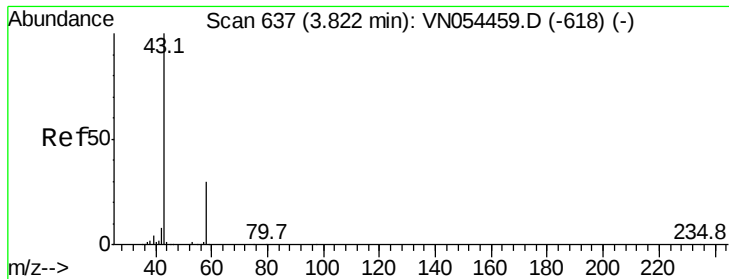
57 11.0 9.0 13.6



Abundance Ion 59.00 (58.70 to 59.70): VNO

Ion 57.00 (56.70 to 57.70): VNO





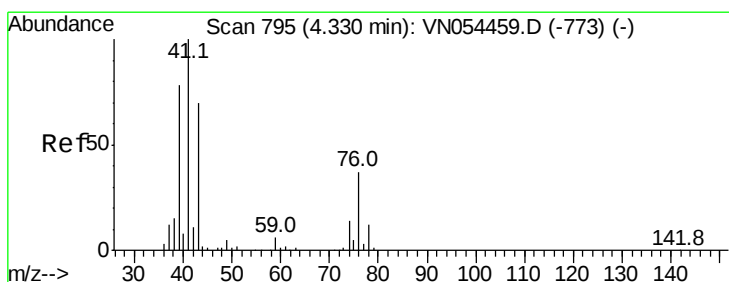
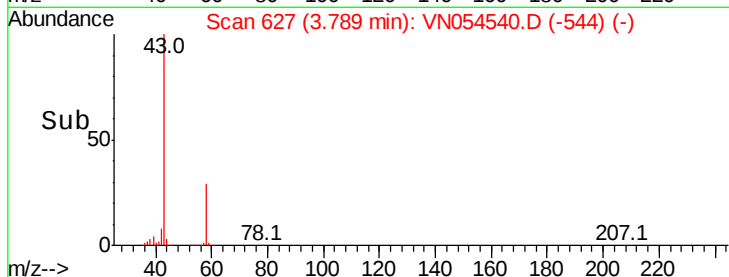
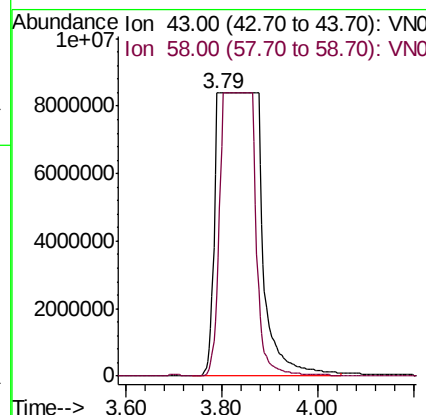
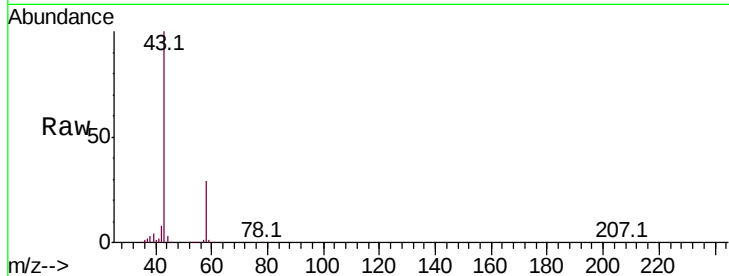
#16
Acetone
Concen: 19692.605 ug/l m
RT: 3.79 min Scan# 627
Delta R.T. -0.03 min
Lab File: VN054540.D
Acq: 22 Mar 2019 5:29

Instrument :
MSVOA_N
ClientSampleId :
DRUM-1-2

Tot Ion: 43 Resp: 55589434
Ion Ratio Lower Upper
43 100
58 28.8 29.9 44.9#

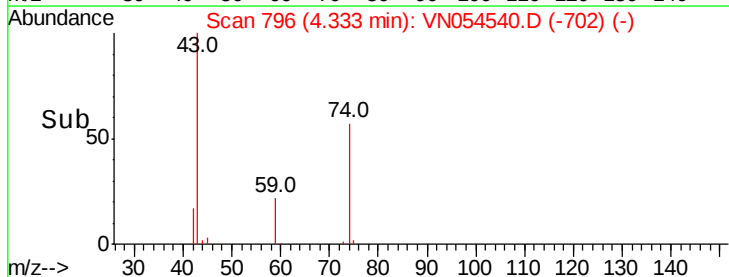
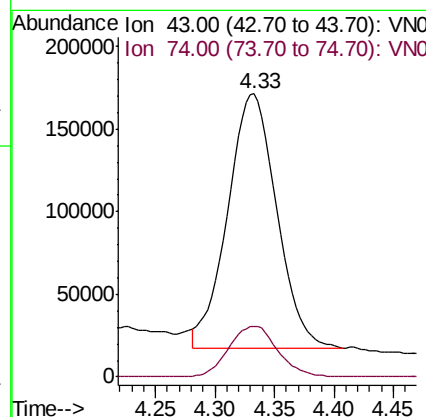
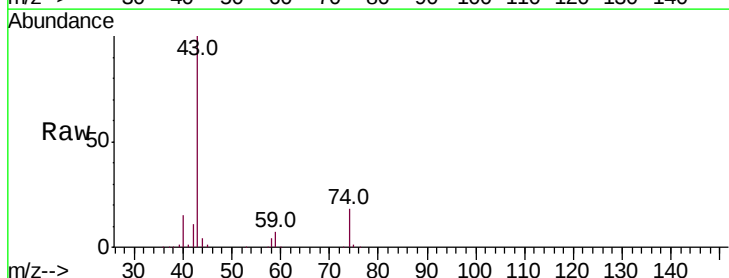
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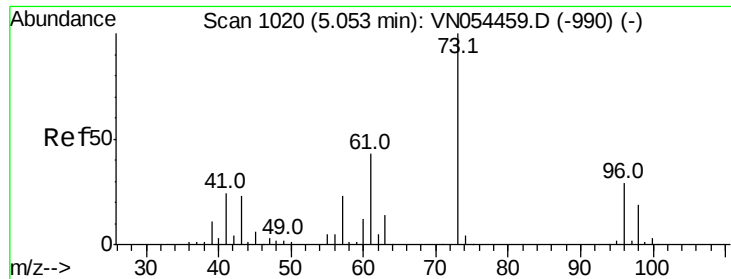
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#18
Methyl Acetate
Concen: 69.698 ug/l
RT: 4.33 min Scan# 796
Delta R.T. 0.00 min
Lab File: VN054540.D
Acq: 22 Mar 2019 5:29

Tgt Ion: 43 Resp: 438527
Ion Ratio Lower Upper
43 100
74 20.0 20.8 31.2#





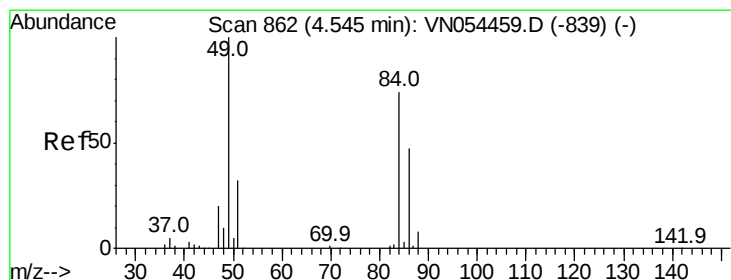
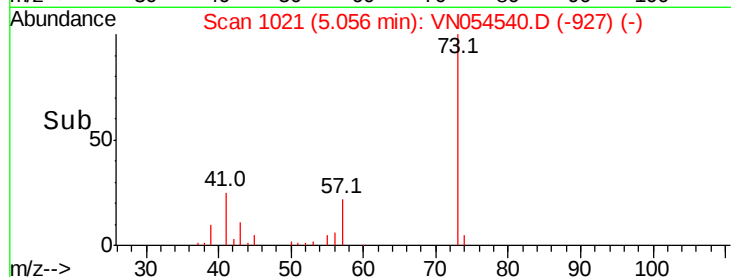
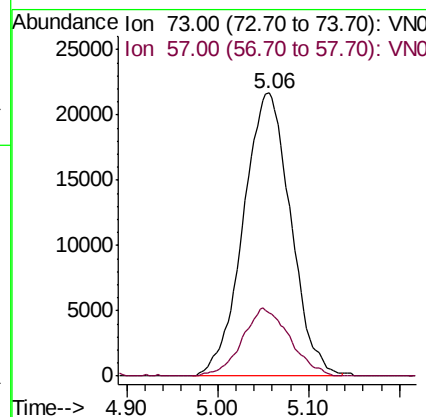
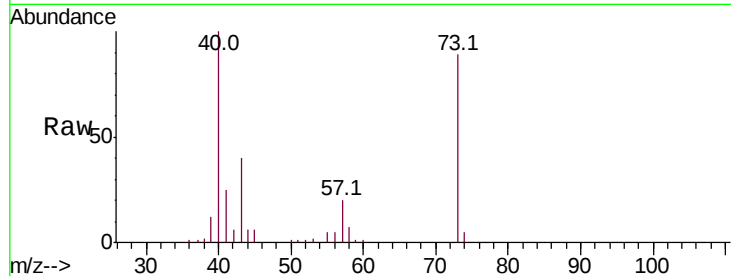
#19
Methvl tert-butvl Ether
Concen: 3.690 ug/l
RT: 5.06 min Scan# 1021
Delta R.T. 0.00 min
Lab File: VN054540.D
Acq: 22 Mar 2019 5:29

Instrument :
MSVOA_N
ClientSampled :
DRUM-1-2

Tot Ion: 73 Resp: 78412
Ion Ratio Lower Upper
73 100
57 22.4 16.8 25.2

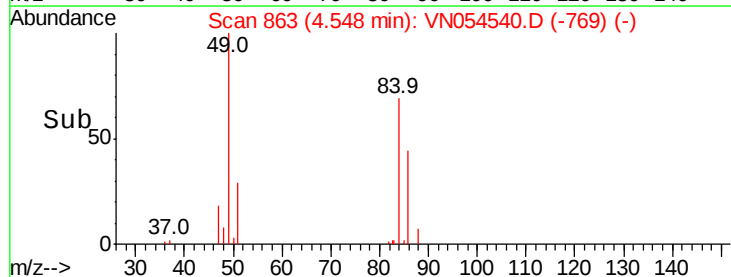
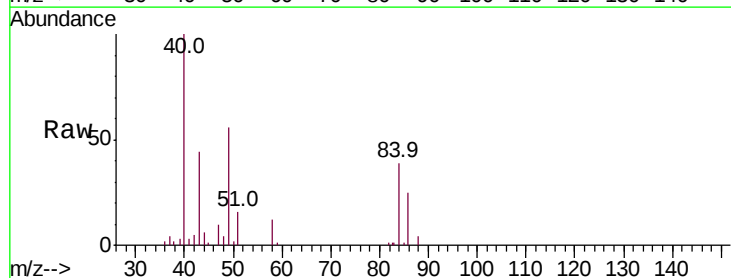
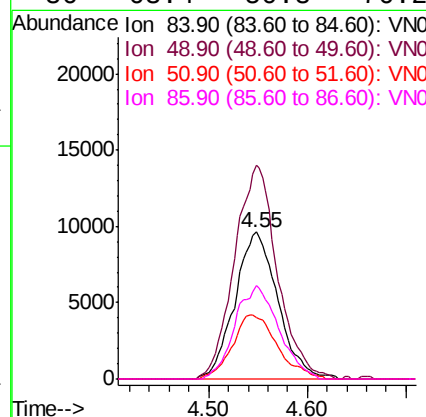
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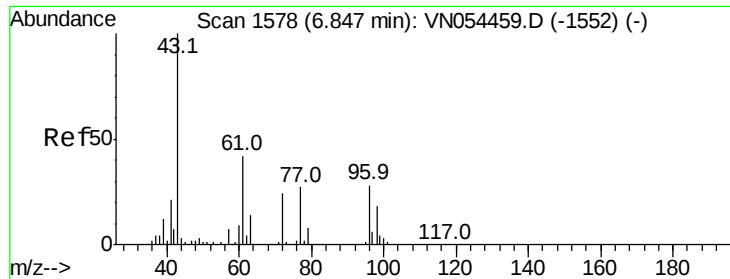
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#20
Methylene Chloride
Concen: 3.502 ug/l
RT: 4.55 min Scan# 863
Delta R.T. 0.00 min
Lab File: VN054540.D
Acq: 22 Mar 2019 5:29

Tgt Ion: 84 Resp: 29143
Ion Ratio Lower Upper
84 100
49 145.6 89.7 134.5#
51 42.0 28.2 42.4
86 63.4 50.8 76.2





#25

2-Butanone

Concen: 37.961 ug/l

RT: 6.85 min Scan# 1578

Delta R.T. -0.00 min

Lab File: VN054540.D

Acq: 22 Mar 2019 5:29

Instrument :

MSVOA_N

ClientSampled :

DRUM-1-2

Tot Ion: 43 Resp: 137270

Ion Ratio Lower Upper

43 100

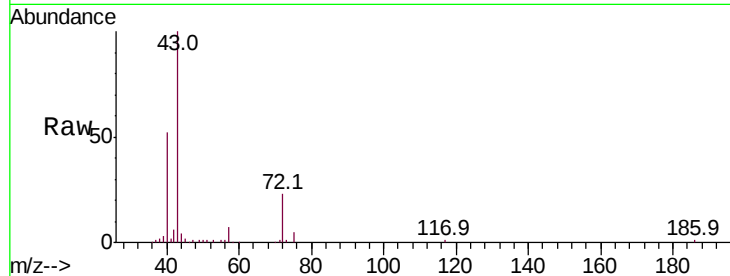
72 23.0 23.0 34.6#

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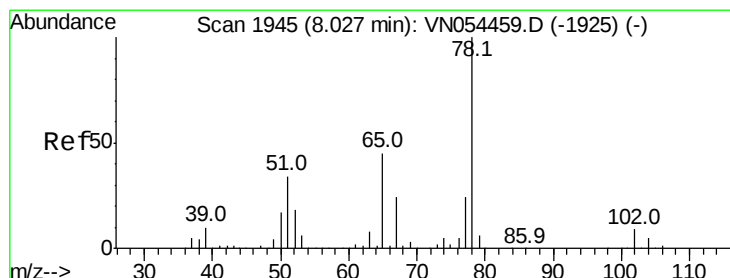
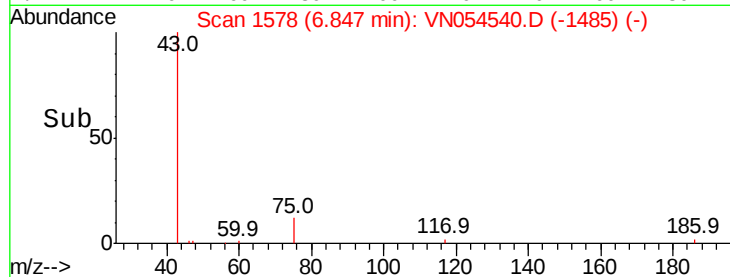
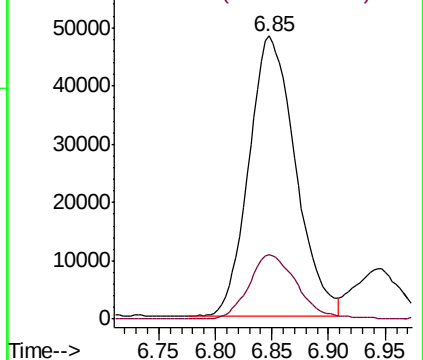
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Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 72.00 (71.70 to 72.70): VN0



#33

1,2-Dichloroethane-d4

Concen: 47.254 ug/l

RT: 8.03 min Scan# 1945

Delta R.T. -0.00 min

Lab File: VN054540.D

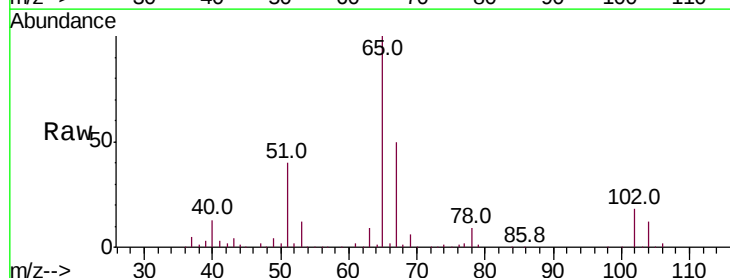
Acq: 22 Mar 2019 5:29

Tgt Ion: 65 Resp: 443680

Ion Ratio Lower Upper

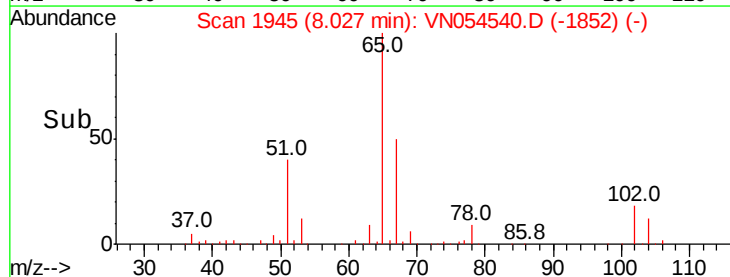
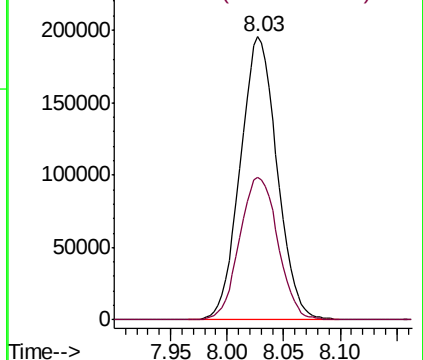
65 100

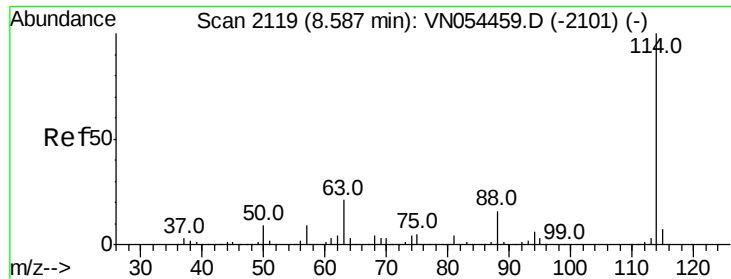
67 52.2 0.0 104.6



Abundance Ion 64.90 (64.60 to 65.60): VN0

Ion 66.90 (66.60 to 67.60): VN0





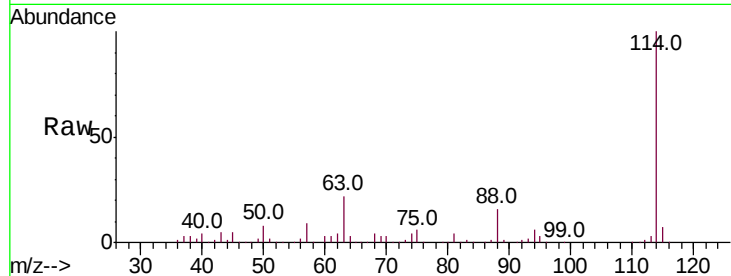
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. 0.00 min
 Lab File: VN054540.D
 Acq: 22 Mar 2019 5:29

Instrument :
 MSVOA_N
 ClientSampleId :
 DRUM-1-2

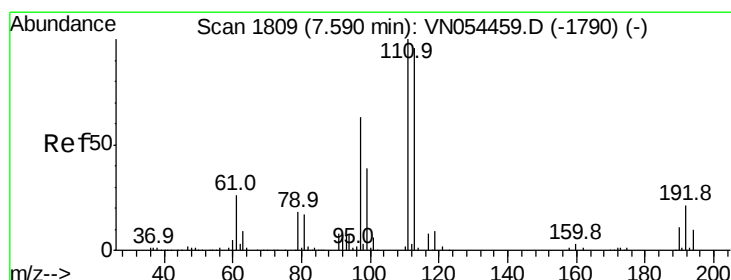
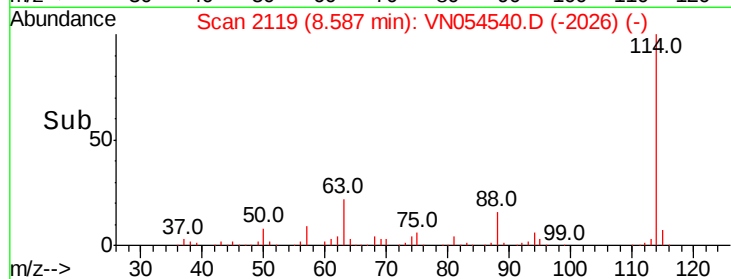
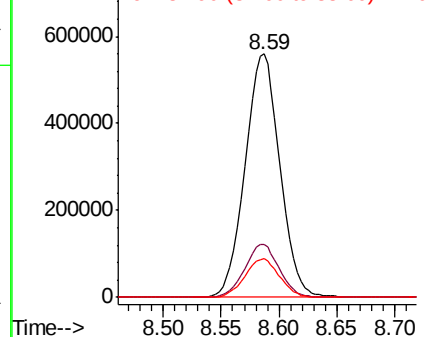
Tot Ion	Ratio	Lower	Upper
114	100		
63	21.9	0.0	35.2
88	15.7	0.0	30.2

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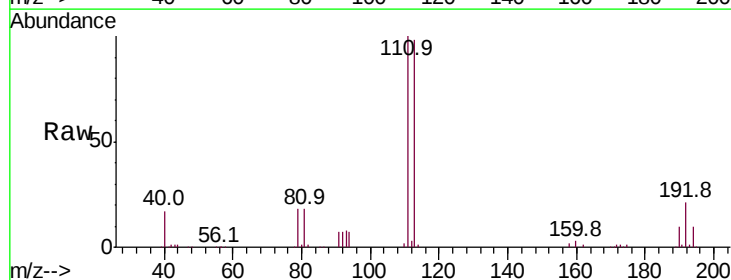


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VN
 Ion 87.90 (87.60 to 88.60): VN

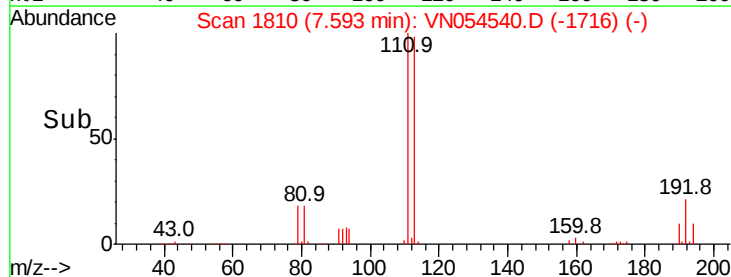
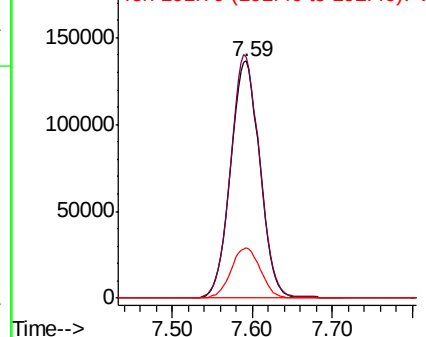


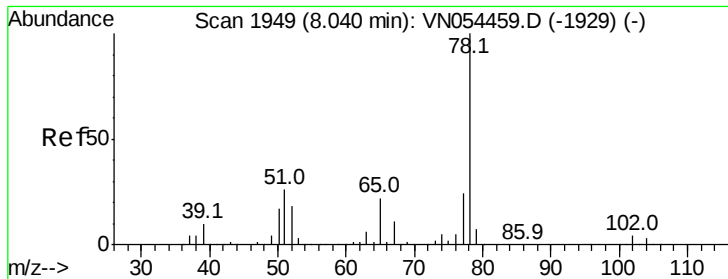
#35
 Dibromofluoromethane
 Concen: 45.422 ug/l
 RT: 7.59 min Scan# 1810
 Delta R.T. 0.00 min
 Lab File: VN054540.D
 Acq: 22 Mar 2019 5:29

Tgt Ion	Ratio	Lower	Upper
113	100		
111	101.2	82.2	123.4
192	21.1	19.2	28.8



Abundance Ion 112.80 (112.50 to 113.50): V
 Ion 110.80 (110.50 to 111.50): V
 Ion 191.70 (191.40 to 192.40): V





#40

Benzene

Concen: 2.000 ug/l

RT: 8.04 min Scan# 1950

Delta R.T. 0.00 min

Lab File: VN054540.D

Acq: 22 Mar 2019 5:29

Instrument :

MSVOA_N

ClientSampleId :

DRUM-1-2

Tot Ion: 78 Resp: 62267

Ion Ratio Lower Upper

78 100

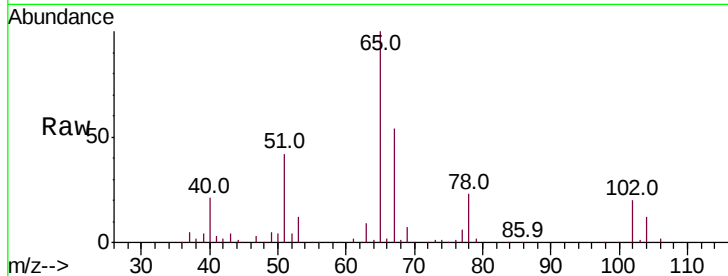
77 23.9 19.1 28.7

Manual Integrations

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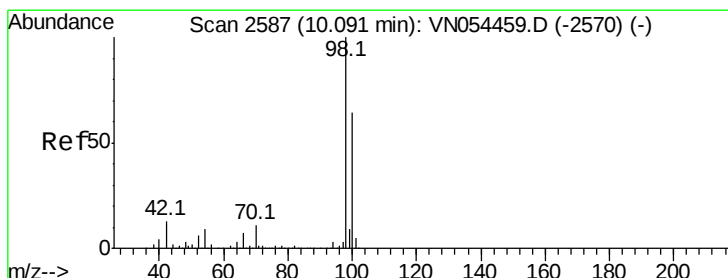
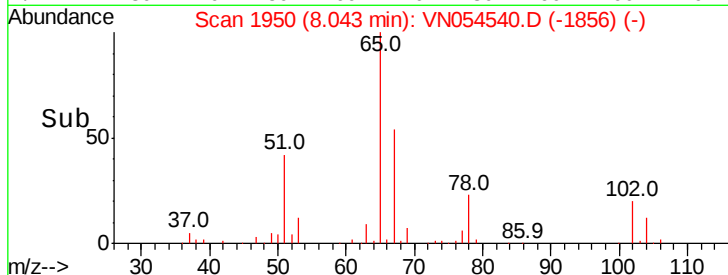
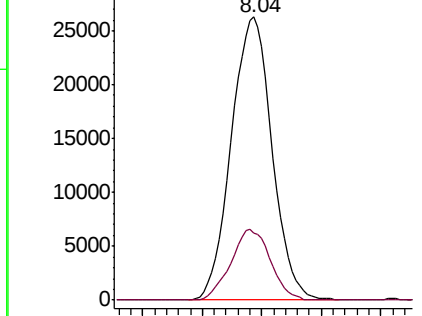
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Abundance Ion 78.00 (77.70 to 78.70): VN0

Ion 77.00 (76.70 to 77.70): VN0



#50

Toluene-d8

Concen: 49.368 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. -0.00 min

Lab File: VN054540.D

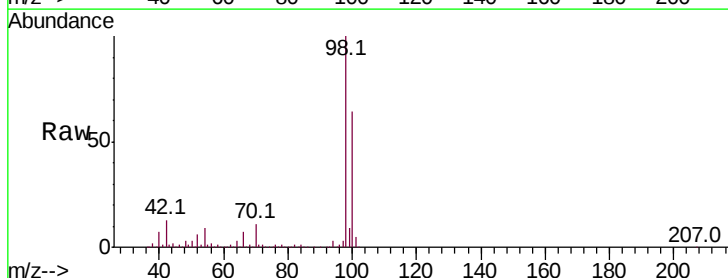
Acq: 22 Mar 2019 5:29

Tgt Ion: 98 Resp: 1392608

Ion Ratio Lower Upper

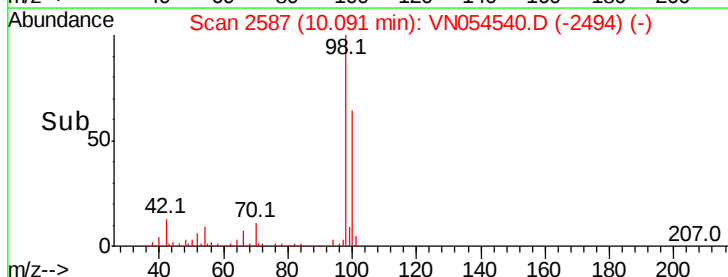
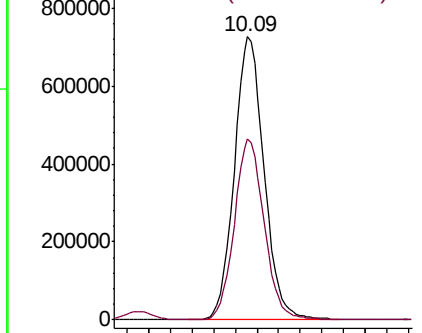
98 100

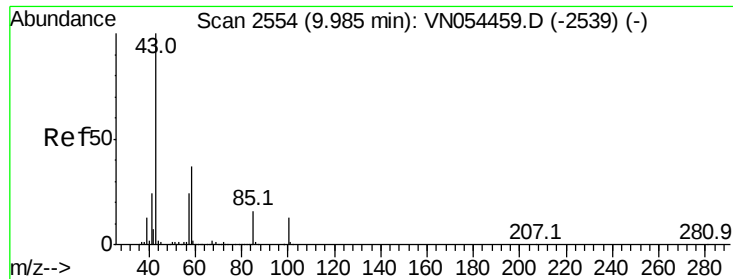
100 63.9 51.2 76.8



Abundance Ion 98.00 (97.70 to 98.70): VN0

Ion 100.00 (99.70 to 100.70): VN0





#51

4-Methyl-2-Pentanone

Concen: 48.745 ug/l

RT: 9.99 min Scan# 2555

Delta R.T. 0.00 min

Lab File: VN054540.D

Acq: 22 Mar 2019 5:29

Instrument :

MSVOA_N

ClientSampleId :

DRUM-1-2

Tot Ion: 43 Resp: 353372

Ion Ratio Lower Upper

43 100

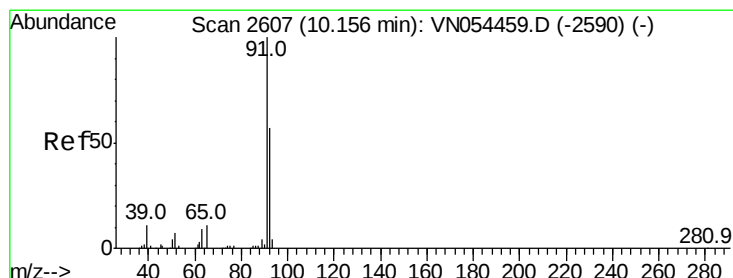
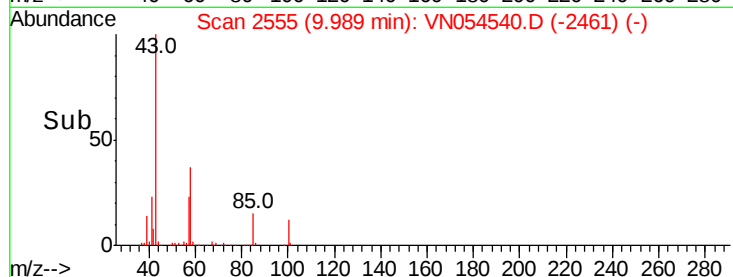
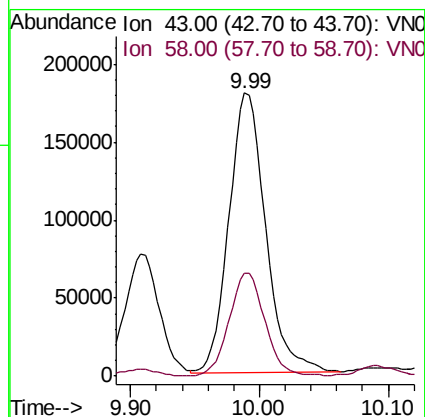
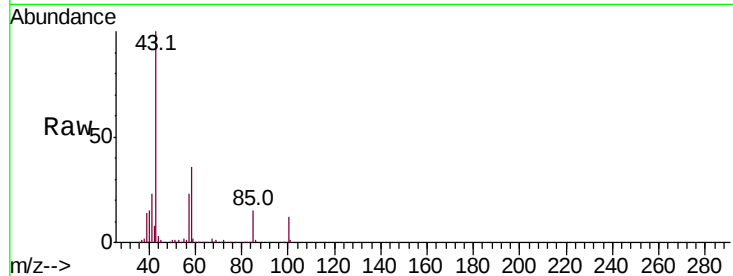
58 35.6 31.8 47.6

Manual Integrations

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#52

Toluene

Concen: 1399.613 ug/l m

RT: 10.14 min Scan# 2603

Delta R.T. -0.01 min

Lab File: VN054540.D

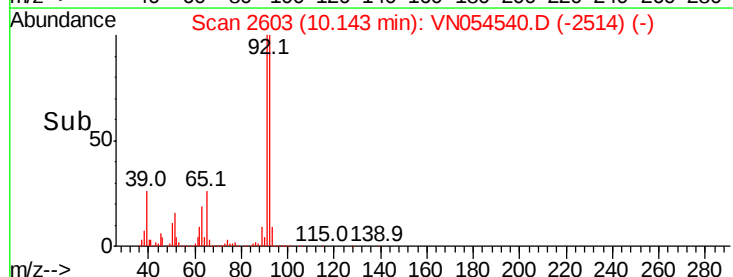
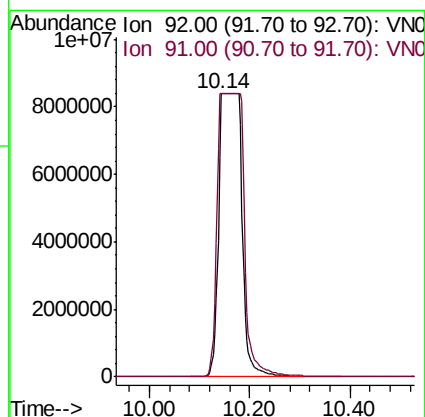
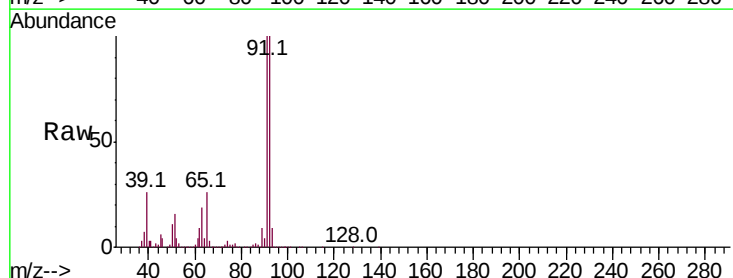
Acq: 22 Mar 2019 5:29

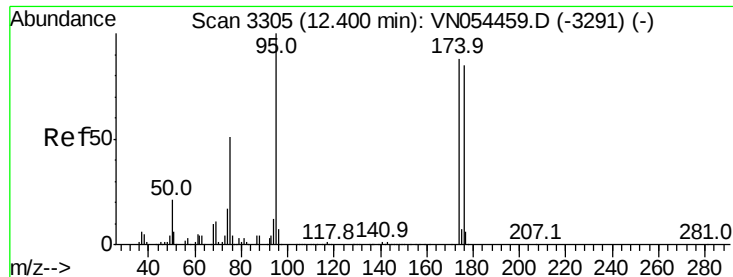
Tgt Ion: 92 Resp: 26806641

Ion Ratio Lower Upper

92 100

91 0.0 140.7 211.1#





#62

4-Bromofluorobenzene

Concen: 46.930 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.00 min

Lab File: VN054540.D

Acq: 22 Mar 2019 5:29

Instrument :

MSVOA_N

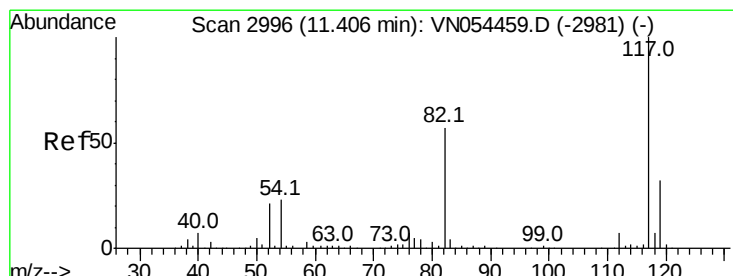
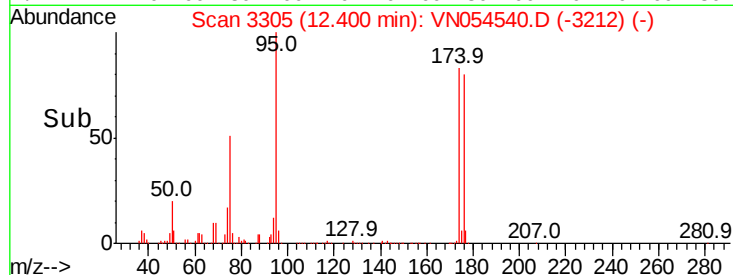
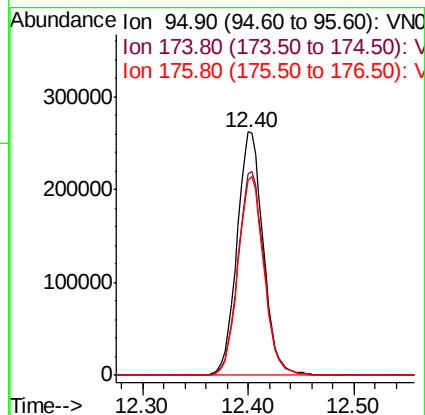
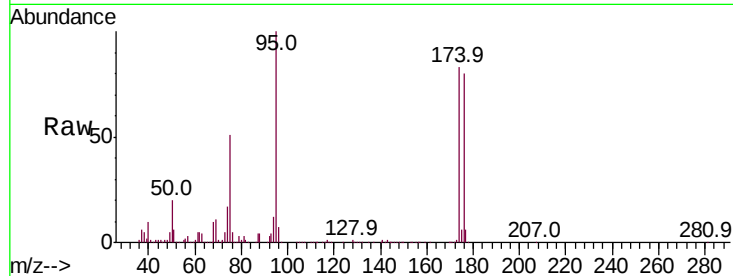
ClientSampleId :

DRUM-1-2

Tot Ion:	95	Resp:	450480
Ion Ratio	Lower	Upper	
95	100		
174	83.8	0.0	191.0
176	80.7	0.0	187.4

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#63

Chlorobenzene-d5

Concen: 50.000 ug/l

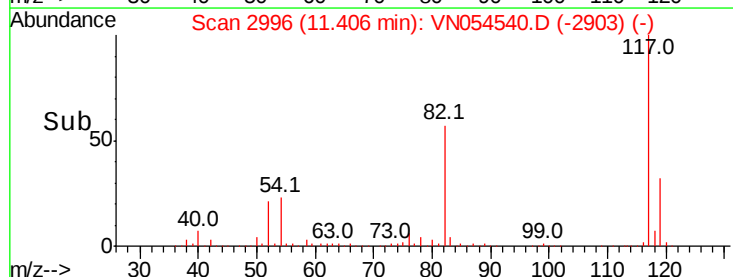
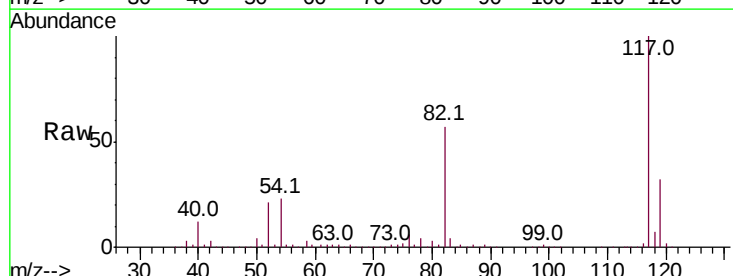
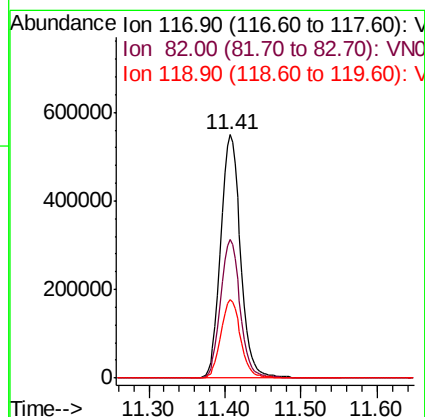
RT: 11.41 min Scan# 2996

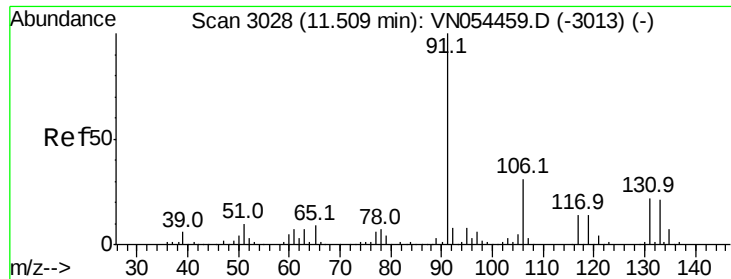
Delta R.T. -0.00 min

Lab File: VN054540.D

Acq: 22 Mar 2019 5:29

Tgt Ion:	117	Resp:	995793
Ion Ratio	Lower	Upper	
117	100		
82	56.8	40.0	60.0
119	32.3	25.8	38.6





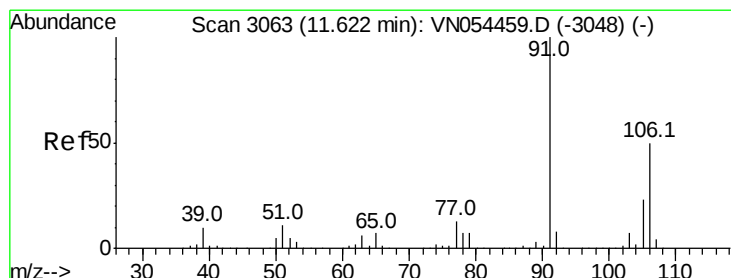
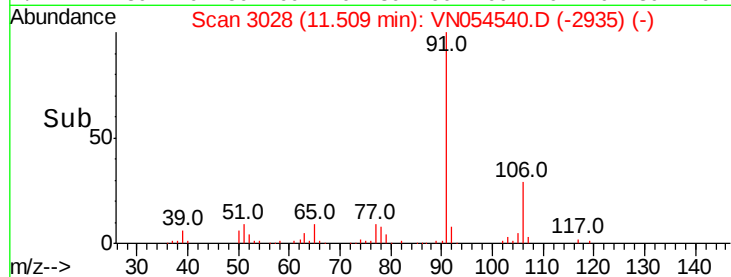
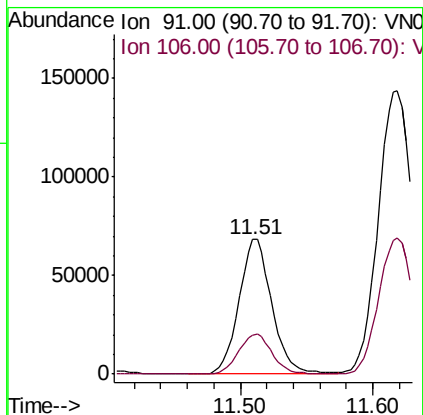
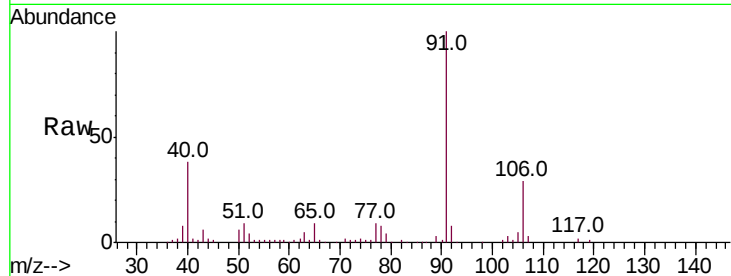
#67
Ethyl Benzene
Concen: 3.301 ug/l
RT: 11.51 min Scan# 3028
Delta R.T. -0.00 min
Lab File: VN054540.D
Acq: 22 Mar 2019 5:29

Instrument :
MSVOA_N
ClientSampleId :
DRUM-1-2

Tot Ion: 91 Resp: 118097
Ion Ratio Lower Upper
91 100
106 29.2 25.5 38.3

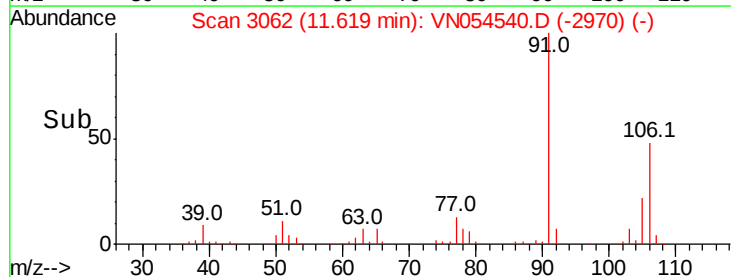
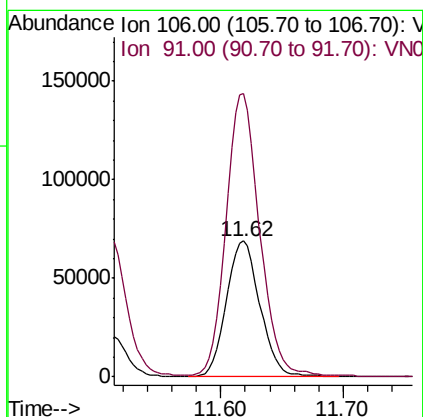
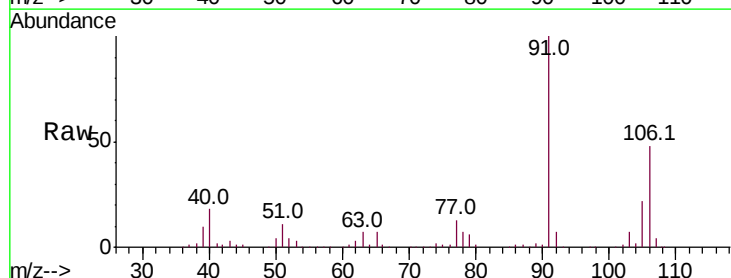
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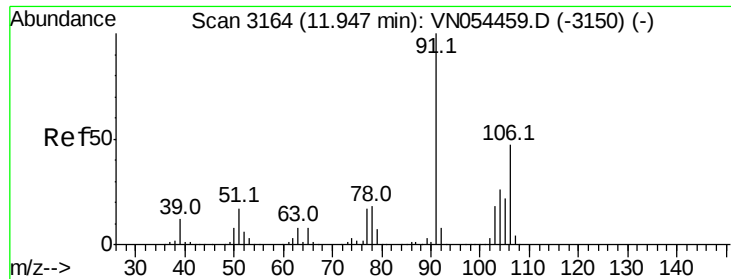
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#68
m/p-Xylenes
Concen: 9.709 ug/l
RT: 11.62 min Scan# 3062
Delta R.T. -0.00 min
Lab File: VN054540.D
Acq: 22 Mar 2019 5:29

Tgt Ion: 106 Resp: 131561
Ion Ratio Lower Upper
106 100
91 211.3 159.4 239.2





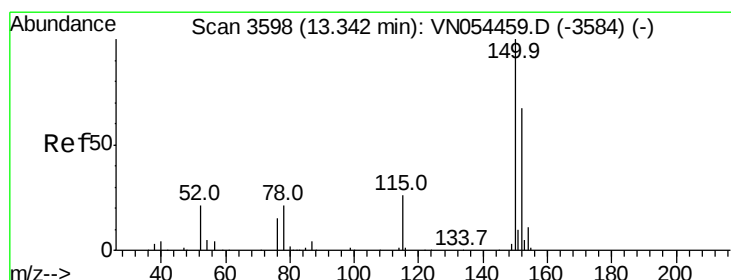
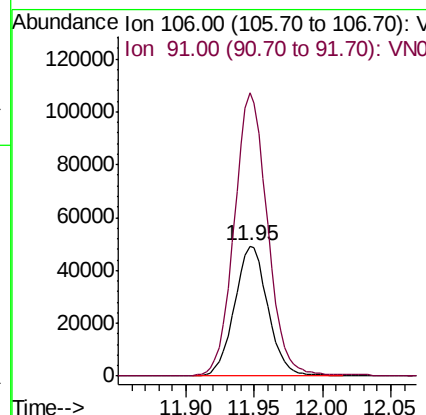
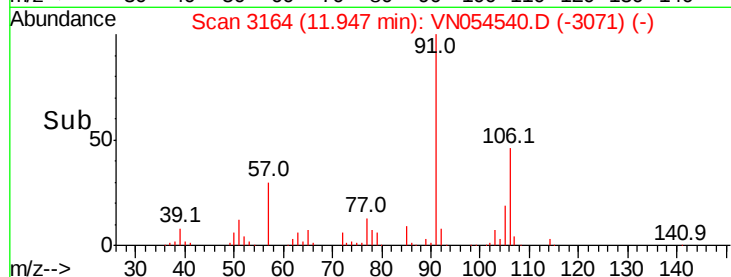
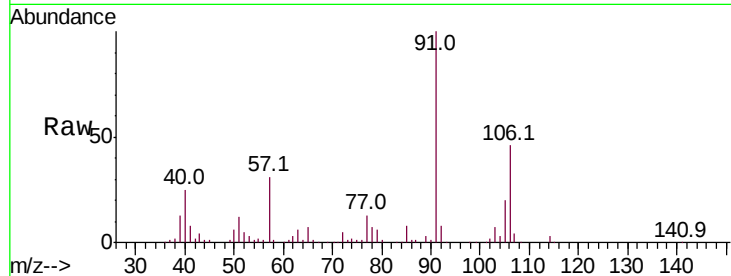
#69
o-Xylene
Concen: 6.335 ug/l
RT: 11.95 min Scan# 3164
Delta R.T. -0.00 min
Lab File: VN054540.D
Acq: 22 Mar 2019 5:29

Instrument :
MSVOA_N
ClientSampleId :
DRUM-1-2

Tot Ion:106 Resp: 83832
Ion Ratio Lower Upper
106 100
91 217.1 105.7 317.1

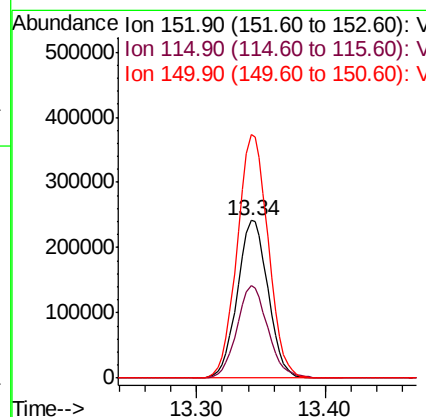
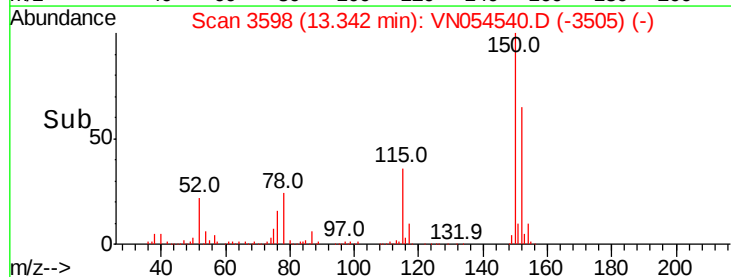
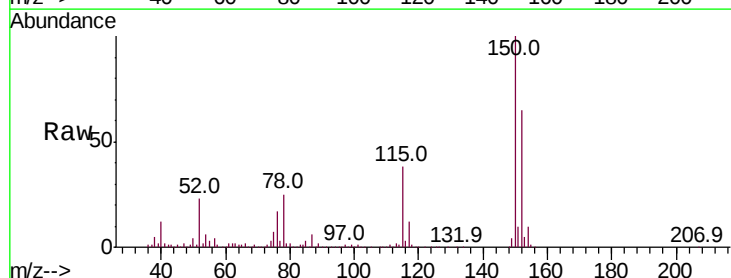
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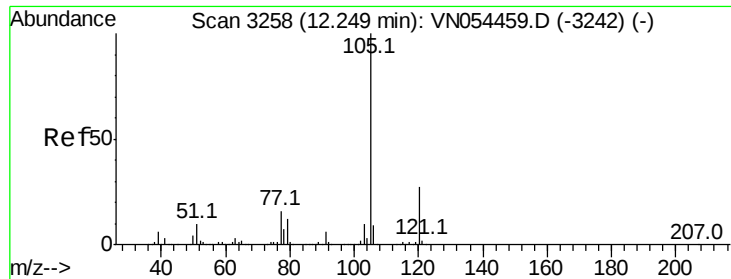
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#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.34 min Scan# 3598
Delta R.T. -0.00 min
Lab File: VN054540.D
Acq: 22 Mar 2019 5:29

Tgt Ion:152 Resp: 399113
Ion Ratio Lower Upper
152 100
115 59.4 27.2 81.6
150 155.9 0.0 349.2





#73

Isopropylbenzene

Concen: 0.675 ug/l

RT: 12.25 min Scan# 3258

Delta R.T. 0.00 min

Lab File: VN054540.D

Acq: 22 Mar 2019 5:29

Instrument :

MSVOA_N

ClientSampleId :

DRUM-1-2

Tot Ion: 105 Resp: 21693

Ion Ratio Lower Upper

105 100

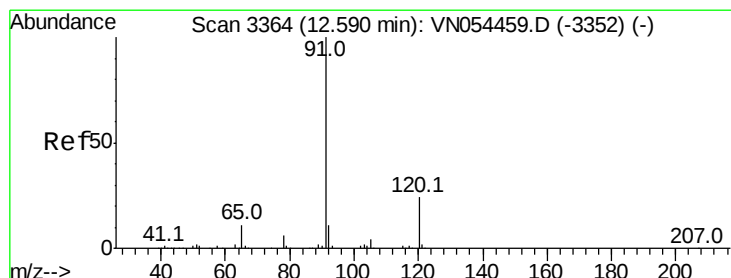
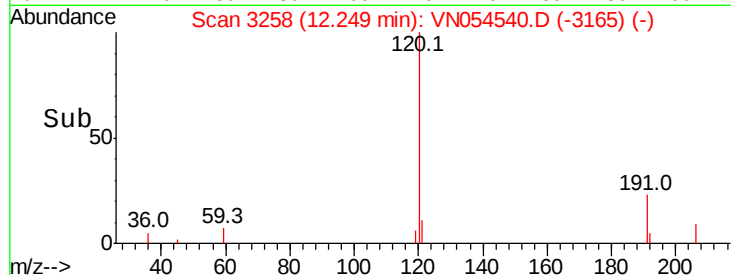
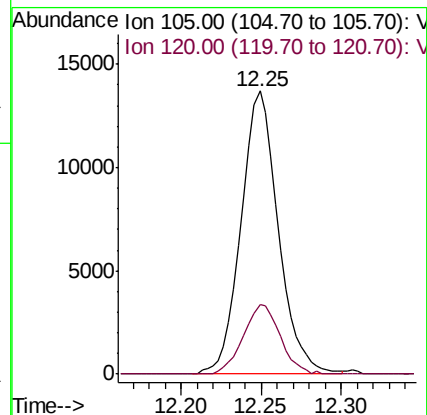
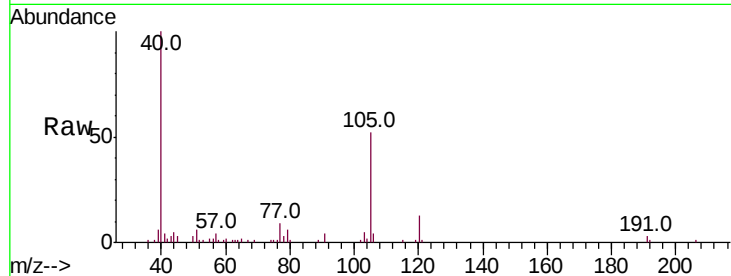
120 24.4 13.8 41.3

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#78

n-propylbenzene

Concen: 1.250 ug/l

RT: 12.59 min Scan# 3364

Delta R.T. -0.00 min

Lab File: VN054540.D

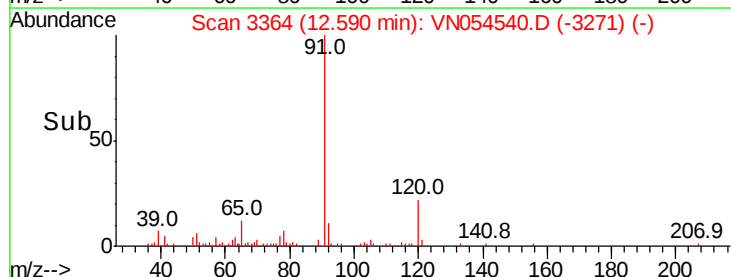
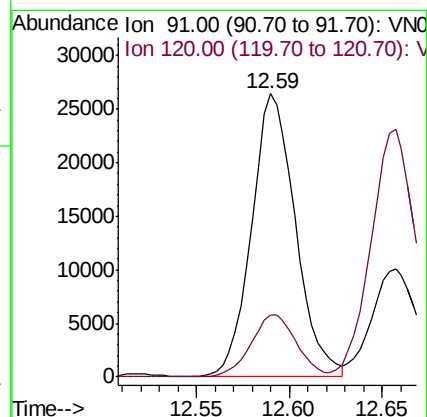
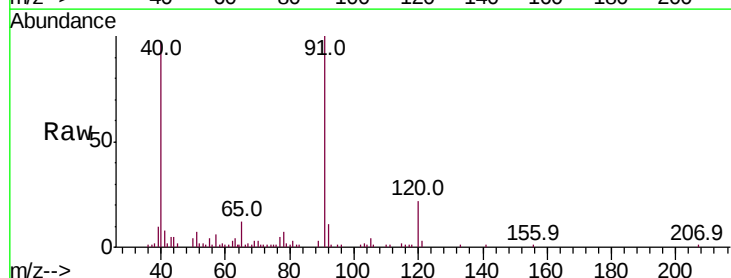
Acq: 22 Mar 2019 5:29

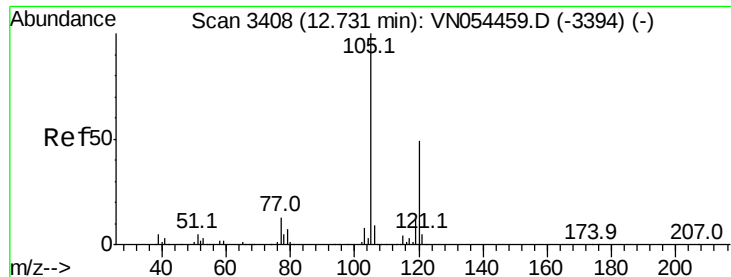
Tgt Ion: 91 Resp: 43608

Ion Ratio Lower Upper

91 100

120 22.8 12.3 36.9





#80

1,3,5-Trimethylbenzene

Concen: 2.408 ug/l

RT: 12.73 min Scan# 3409

Delta R.T. 0.00 min

Lab File: VN054540.D

Acq: 22 Mar 2019 5:29

Instrument :

MSVOA_N

ClientSampleId :

DRUM-1-2

Tot Ion:105 Resp: 63460

Ion Ratio Lower Upper

105 100

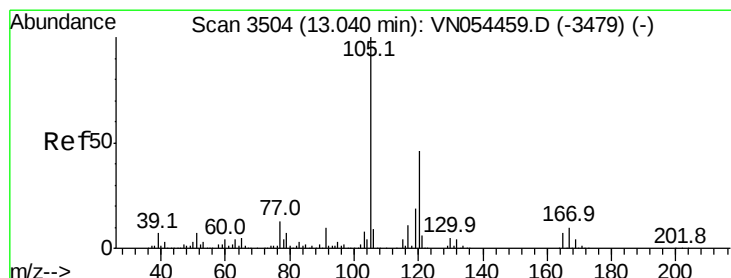
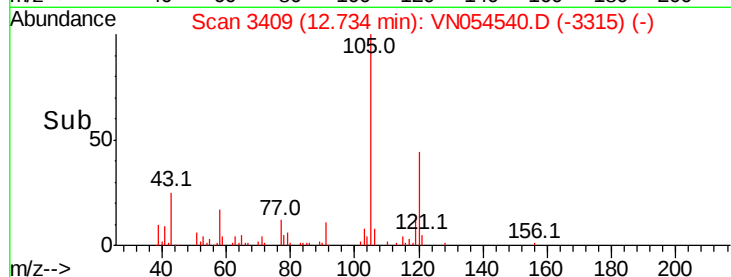
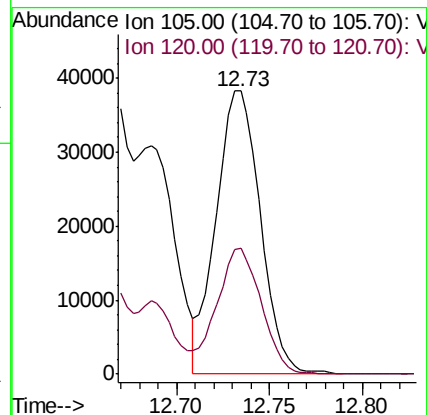
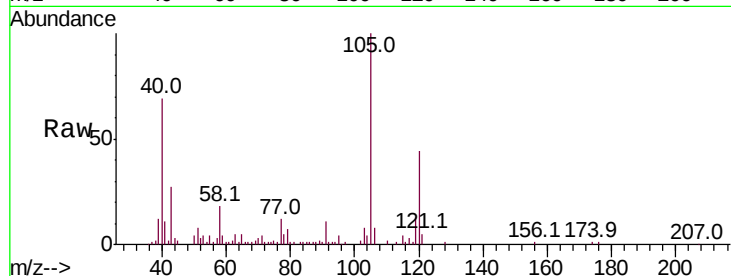
120 44.4 25.0 75.0

Manual Integrations

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#84

1,2,4-Trimethylbenzene

Concen: 10.460 ug/l

RT: 13.04 min Scan# 3504

Delta R.T. -0.00 min

Lab File: VN054540.D

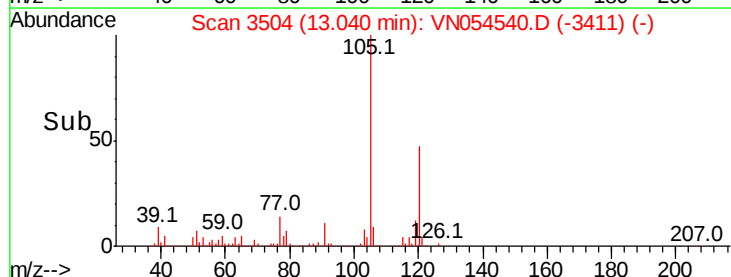
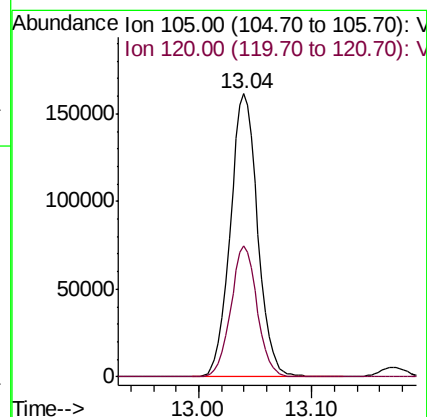
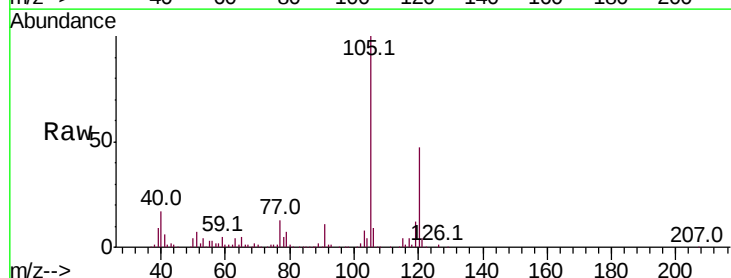
Acq: 22 Mar 2019 5:29

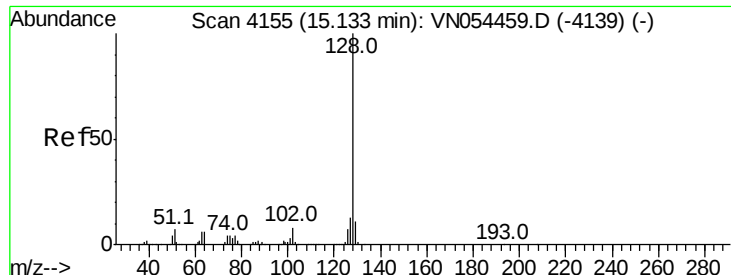
Tgt Ion:105 Resp: 270536

Ion Ratio Lower Upper

105 100

120 44.4 23.4 70.3





#95
Naphthalene
Concen: 2.674 ug/l
RT: 15.13 min Scan# 4155
Delta R.T. -0.00 min
Lab File: VN054540.D
Acq: 22 Mar 2019 5:29

Instrument :
MSVOA_N
ClientSampleId :
DRUM-1-2

Tot Ion	Ratio	Resp Lower	Upper
128	100		
127	13.1	10.1	15.1
129	10.8	8.7	13.1

Manual Integrations
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