

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN082319\
 Data File : VN057471.D
 Acq On : 23 Aug 2019 13:49
 Operator : JC/SP
 Sample : K4488-01
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 390821767.1-VOA

Manual Integrations
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 8/26/2019 1:12:19 PM

Quant Time: Aug 23 23:59:18 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N082319W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Aug 23 23:15:31 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.18	128	68571	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.57	114	380549	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.40	117	301624	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.01	65	199130	30.12	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	100.40%
60) 4-Bromofluorobenzene	12.40	95	129337	26.00	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	86.67%
63) Toluene-d8	10.09	98	483865	31.77	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	105.90%

Target Compounds

					Ovalue
8) Diethyl Ether	3.39	74	13675	3.270 ug/l	87
12) Methyl Acetate	4.30	43	8518	1.429 ug/l	98
23) tert-Butyl Alcohol	4.78	59	3357027	4461.724 ug/l #	100
24) Methyl tert-Butyl Ether	5.03	73	40224	2.942 ug/l #	71
30) 2-Butanone	6.82	43	186233	59.892 ug/l #	80
45) 1,4-Dioxane	9.19	88	7159	103.083 ug/l #	82
58) 4-Methyl-2-Pentanone	9.98	43	41773	7.060 ug/l	94
62) Toluene	10.15	91	42226	2.291 ug/l	98
64) Chlorobenzene	11.43	112	7828	0.781 ug/l	93
66) Ethyl Benzene	11.51	91	16934	0.858 ug/l	96
67) m/p-Xylenes	11.62	106	58303	8.520 ug/l	100
68) o-Xylene	11.95	106	35387	5.233 ug/l	96
70) Isopropylbenzene	12.25	105	62980	3.481 ug/l	98
76) 1,3,5-Trimethylbenzene	12.73	105	13242	0.892 ug/l	93
80) 1,2,4-Trimethylbenzene	13.04	105	39515	2.855 ug/l	95
83) 1,3-Dichlorobenzene	13.29	146	2024	0.355 ug/l	74
84) 1,4-Dichlorobenzene	13.37	146	21245	3.831 ug/l	94
85) n-Butylbenzene	13.62	91	4354	0.357 ug/l	85
87) 1,2-Dichlorobenzene	13.66	146	3732m	0.667 ug/l	
91) Naphthalene	15.13	128	9473	10.665 ug/l #	88

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

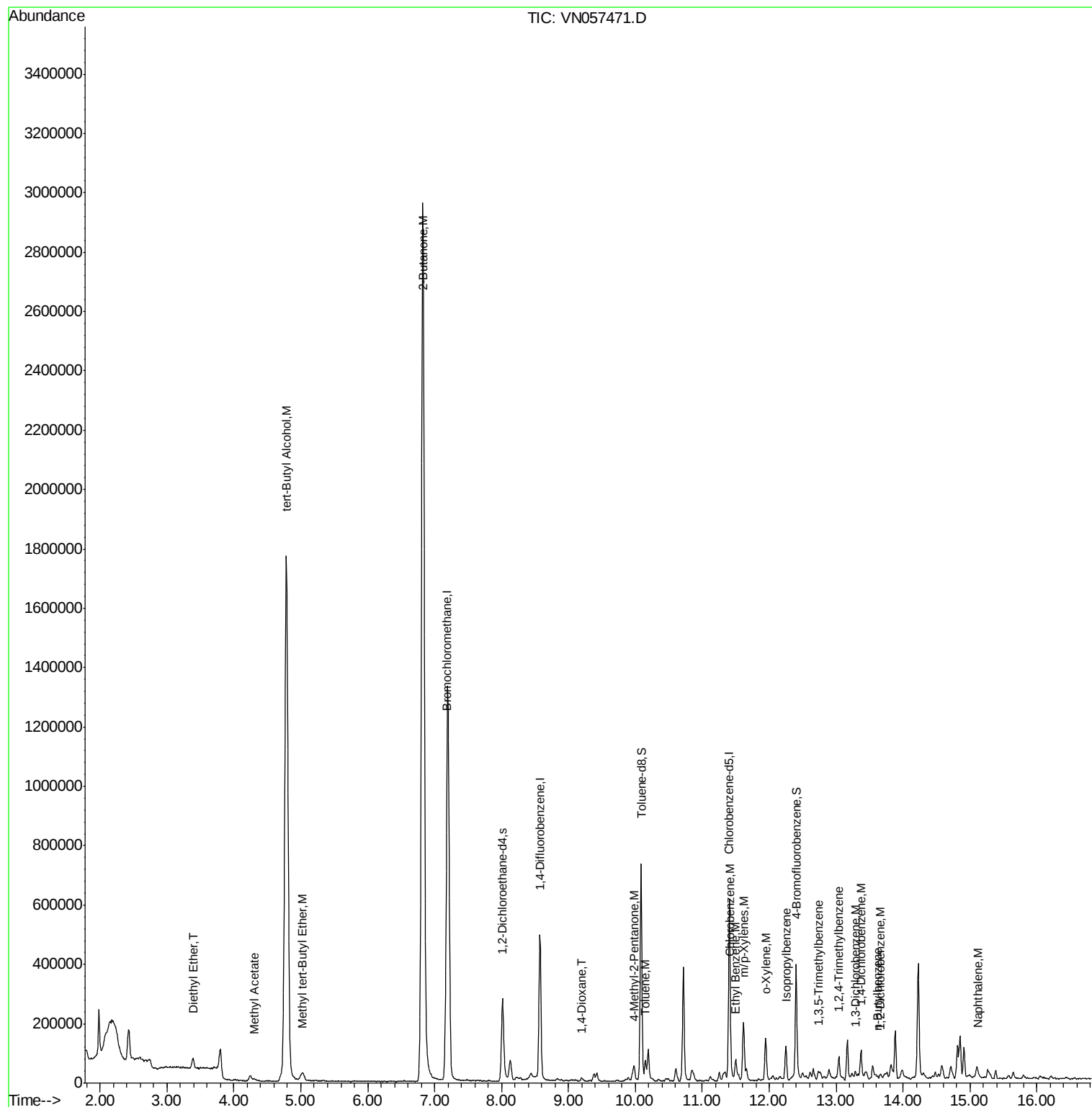
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Data File : VN057471.D
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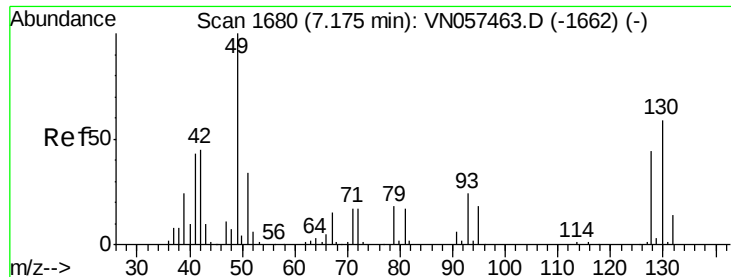
Instrument :
MSVOA_N
ClientSampleId :
390821767.1-VOA

Manual Integrations
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Quant Time: Aug 23 23:59:18 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N082319W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
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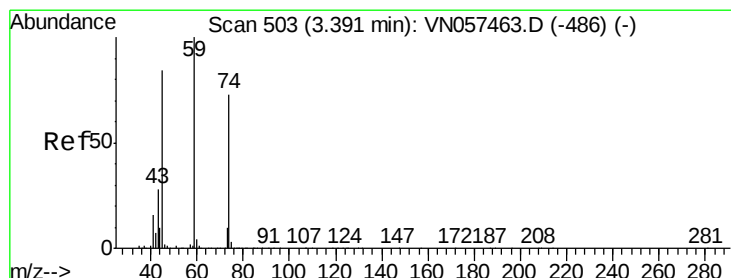
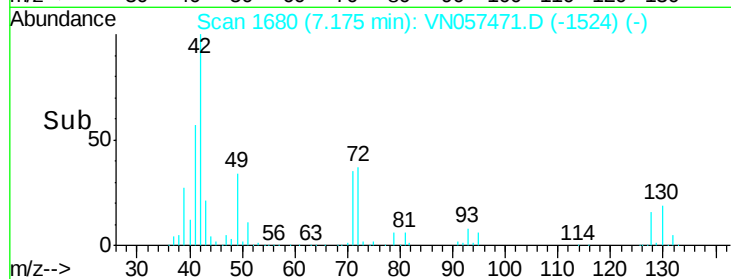
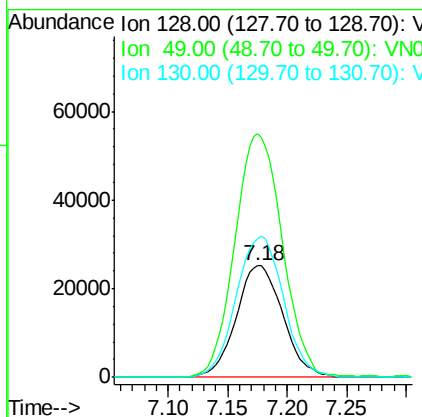
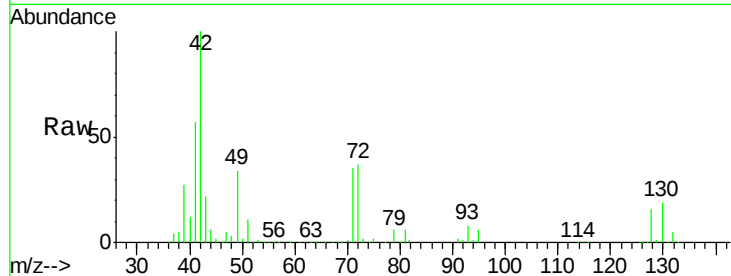
#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 7.18 min Scan# 1680
Delta R.T. 0.00 min
Lab File: VN057471.D
Acq: 23 Aug 2019 13:49

Instrument :
MSVOA_N
ClientSampleId :
390821767.1-VOA

Tot Ion	Ratio	Lower	Upper
128	100		
49	221.7	0.0	560.5
130	127.8	0.0	317.3

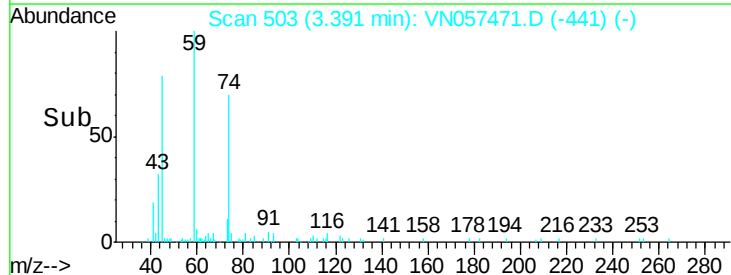
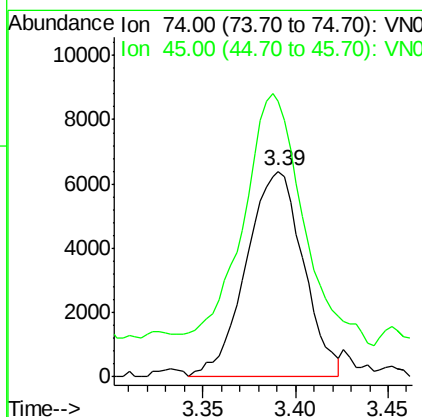
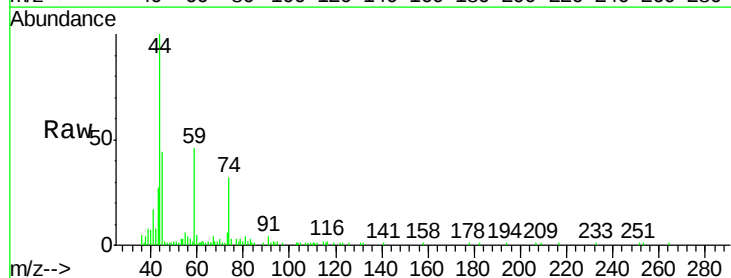
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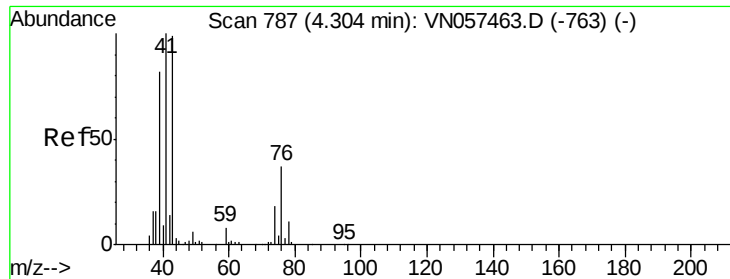
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#8
Diethyl Ether
Concen: 3.270 ug/l
RT: 3.39 min Scan# 503
Delta R.T. 0.00 min
Lab File: VN057471.D
Acq: 23 Aug 2019 13:49

Tgt Ion	Ratio	Lower	Upper
74	100		
45	130.1	23.2	209.0





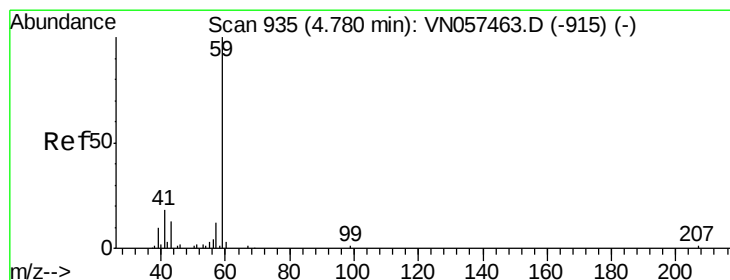
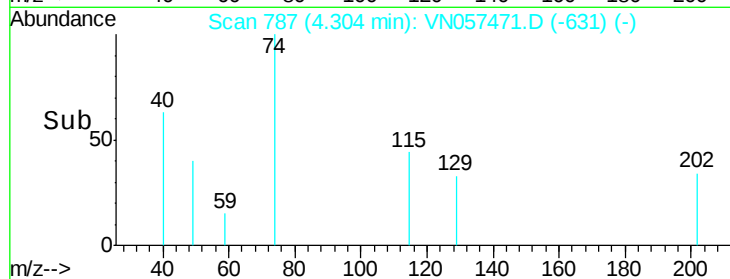
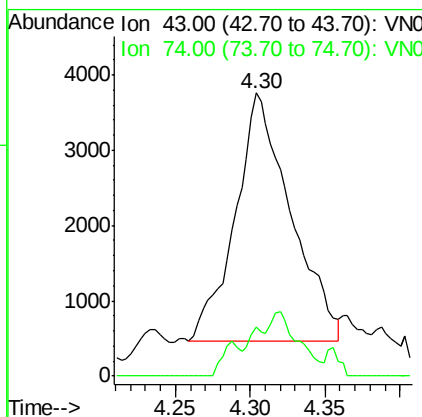
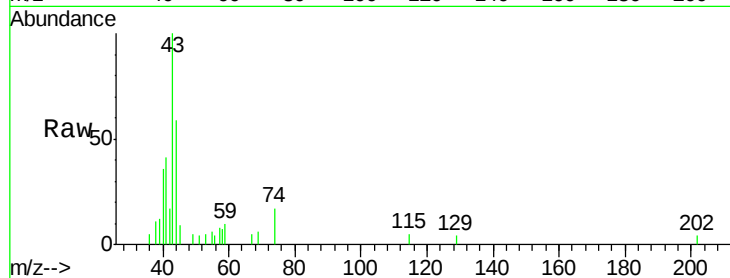
#12
Methvl Acetate
Concen: 1.429 ug/l
RT: 4.30 min Scan# 787
Delta R.T. 0.00 min
Lab File: VN057471.D
Acq: 23 Aug 2019 13:49

Instrument :
MSVOA_N
ClientSampleId :
390821767.1-VOA

Tot Ion: 43 Resp: 8518
Ion Ratio Lower Upper
43 100
74 17.5 14.6 22.0

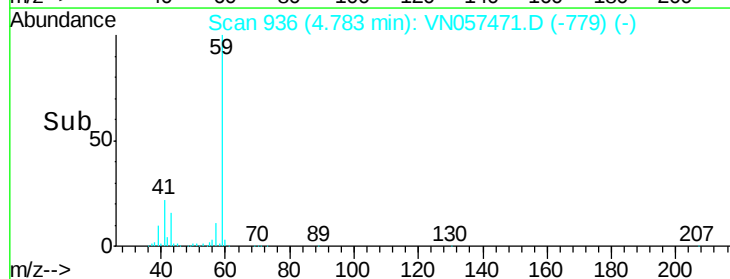
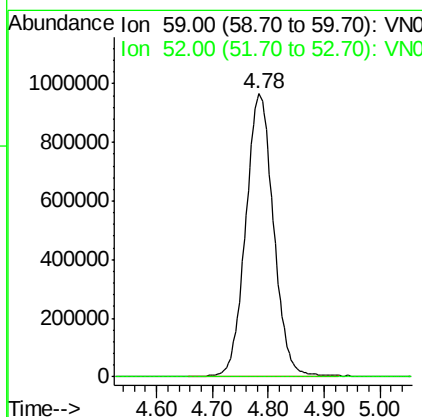
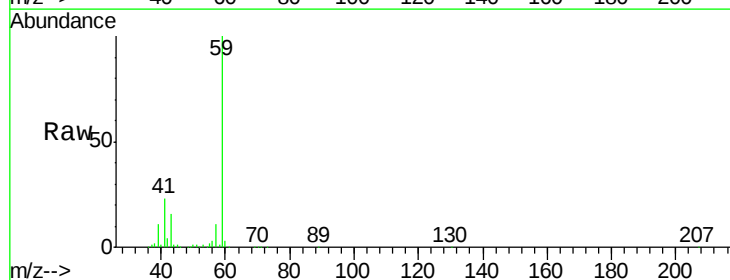
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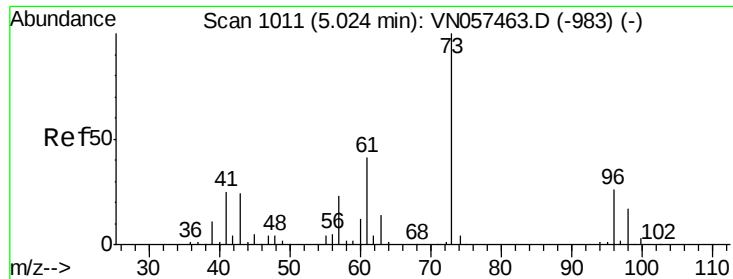
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#23
tert-Butyl Alcohol
Concen: 4461.724 ug/l
RT: 4.78 min Scan# 936
Delta R.T. 0.00 min
Lab File: VN057471.D
Acq: 23 Aug 2019 13:49

Tgt Ion: 59 Resp: 3357027
Ion Ratio Lower Upper
59 100
52 0.1 0.1 0.1#





#24

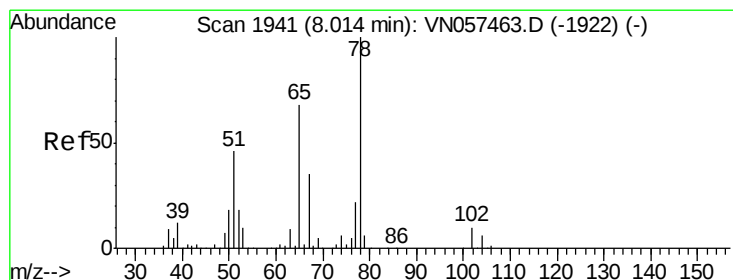
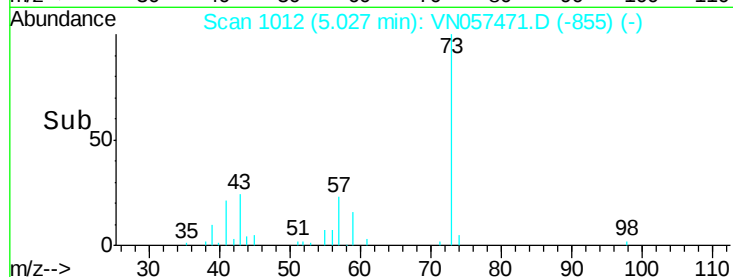
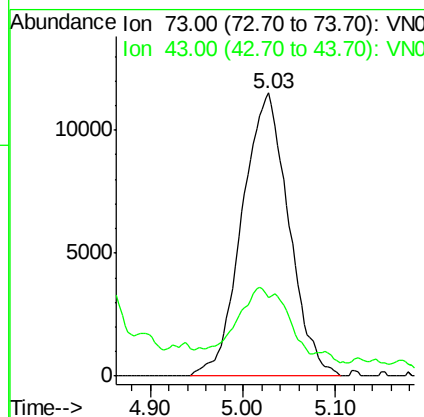
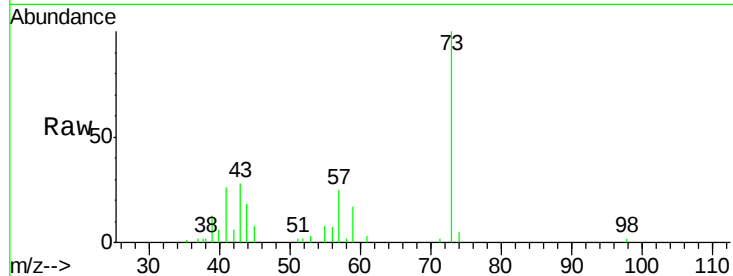
Methvl tert-Butvl Ether
 Concen: 2.942 ug/l
 RT: 5.03 min Scan# 1012
 Delta R.T. 0.00 min
 Lab File: VN057471.D
 Acq: 23 Aug 2019 13:49

Instrument :
 MSVOA_N
 ClientSampleId :
 390821767.1-VOA

Tot Ion: 73 Resp: 40224
 Ion Ratio Lower Upper
 73 100
 43 10.3 20.1 30.1#

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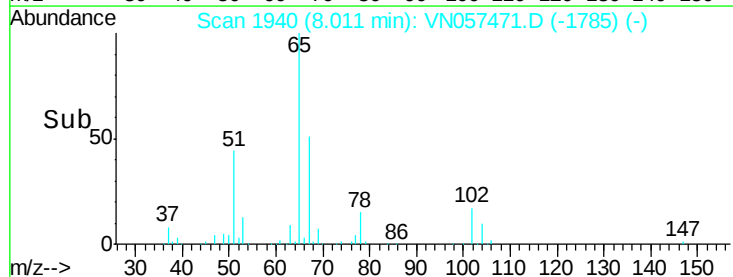
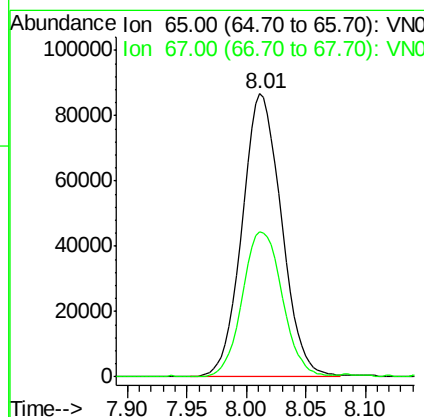
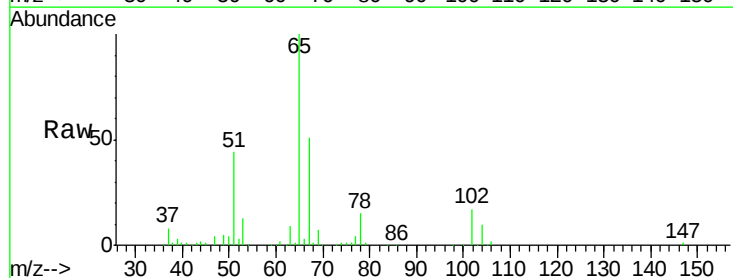
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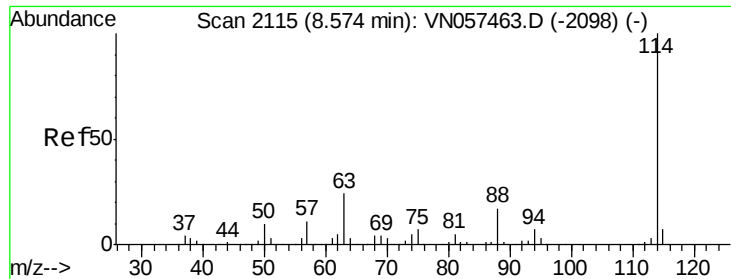


#27

1,2-Dichloroethane-d4
 Concen: 30.123 ug/l
 RT: 8.01 min Scan# 1940
 Delta R.T. -0.00 min
 Lab File: VN057471.D
 Acq: 23 Aug 2019 13:49

Tgt Ion: 65 Resp: 199130
 Ion Ratio Lower Upper
 65 100
 67 52.3 40.2 60.4





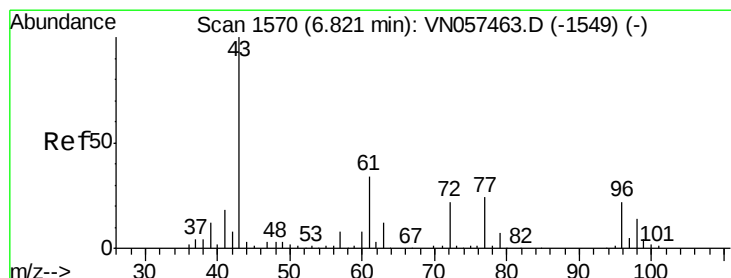
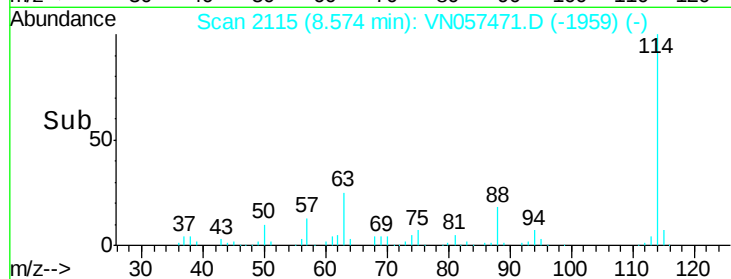
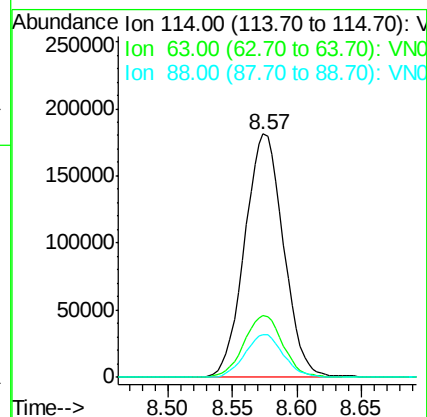
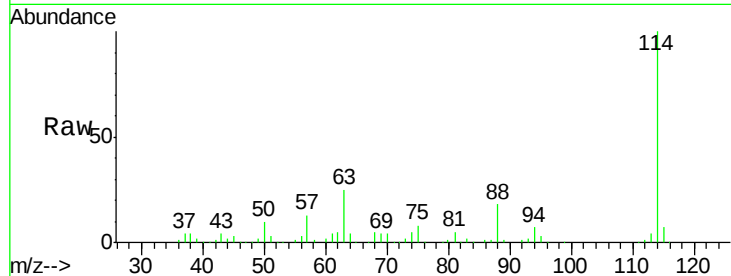
#28
 1,4-Difluorobenzene
 Concen: 30.000 ug/l
 RT: 8.57 min Scan# 2115
 Delta R.T. 0.00 min
 Lab File: VN057471.D
 Acq: 23 Aug 2019 13:49

Instrument :
 MSVOA_N
 ClientSampleId :
 390821767.1-VOA

Tot Ion	Ratio	Lower	Upper
114	100		
63	25.5	19.6	29.4
88	17.5	13.1	19.7

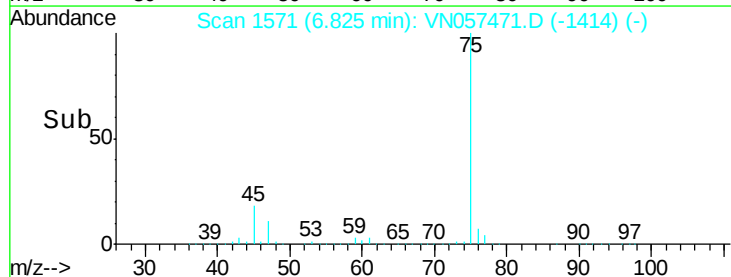
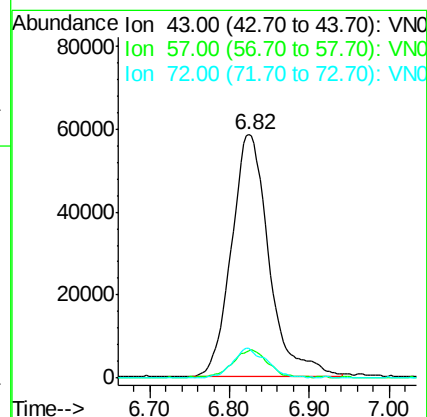
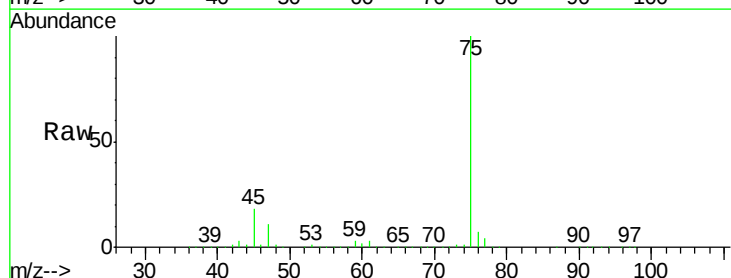
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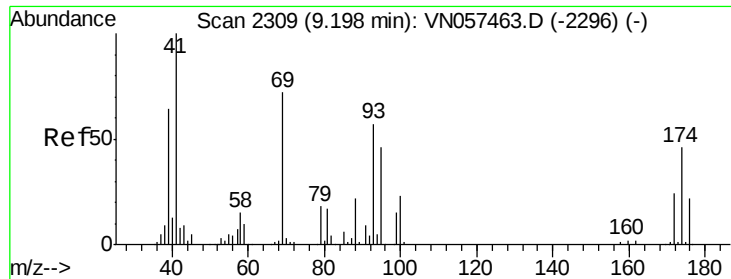
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#30
 2-Butanone
 Concen: 59.892 ug/l
 RT: 6.82 min Scan# 1571
 Delta R.T. 0.00 min
 Lab File: VN057471.D
 Acq: 23 Aug 2019 13:49

Tgt Ion	Ratio	Lower	Upper
43	100		
57	10.1	5.7	8.5#
72	11.2	18.2	27.2#





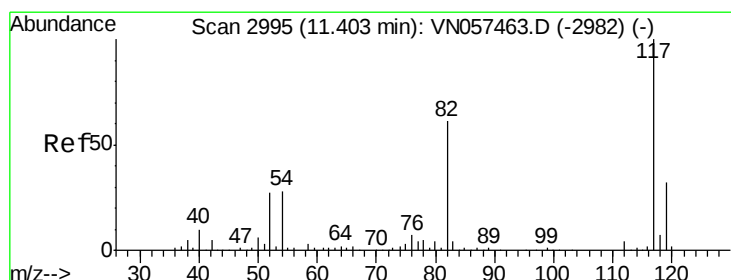
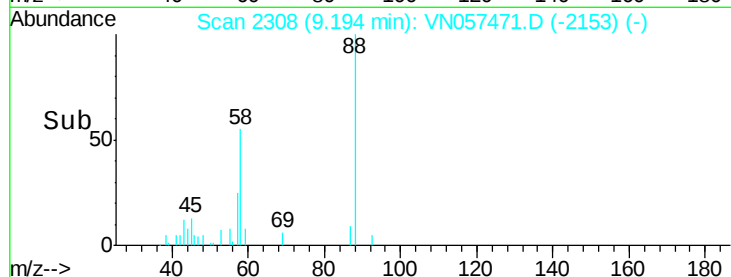
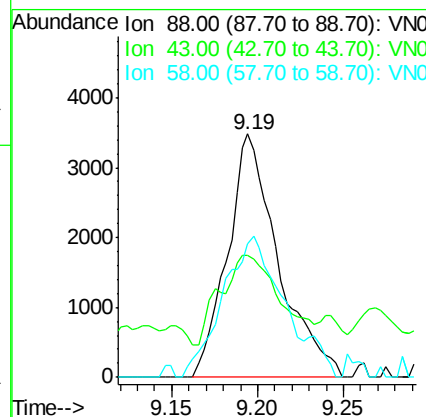
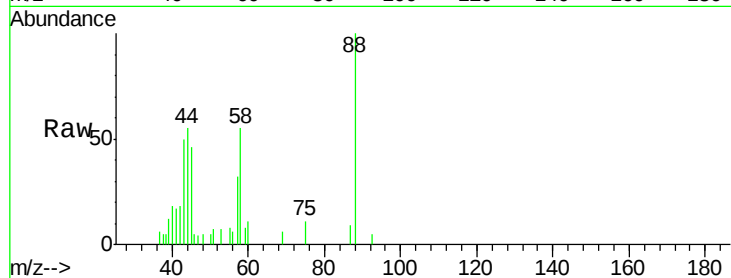
#45
 1,4-Dioxane
 Concen: 103.083 ug/l
 RT: 9.19 min Scan# 2308
 Delta R.T. -0.00 min
 Lab File: VN057471.D
 Acq: 23 Aug 2019 13:49

Instrument :
 MSVOA_N
 ClientSampleId :
 390821767.1-VOA

Tot Ion	88	Resp	7159
Ion	Ratio	Lower	Upper
88	100		
43	21.5	29.8	44.6#
58	65.1	62.2	93.2

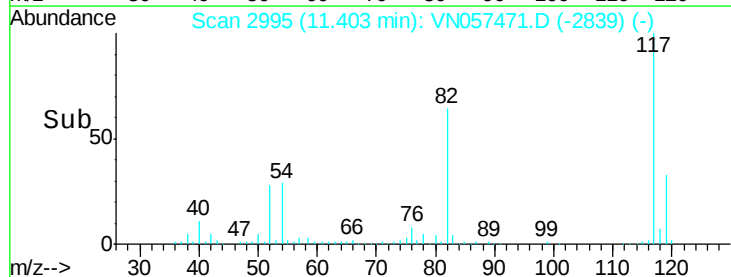
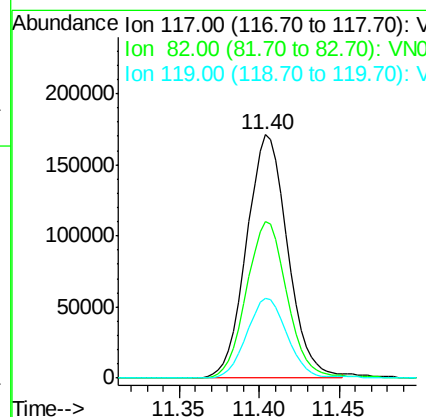
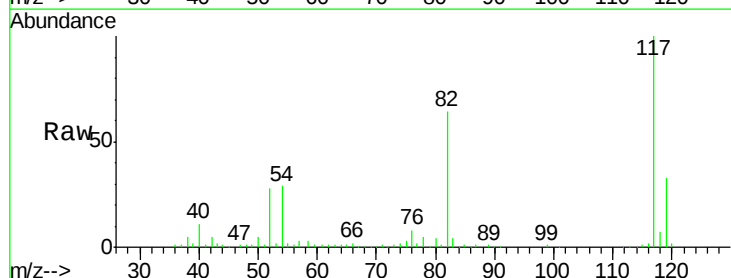
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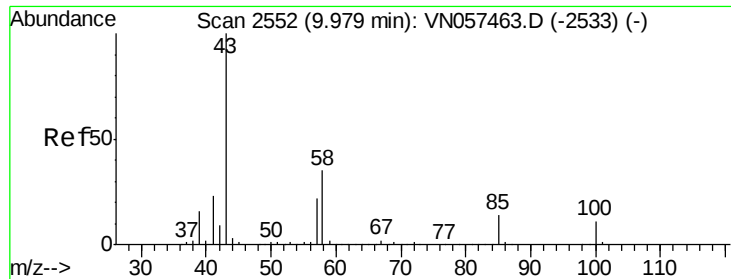
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#57
 Chlorobenzene-d5
 Concen: 30.000 ug/l
 RT: 11.40 min Scan# 2995
 Delta R.T. 0.00 min
 Lab File: VN057471.D
 Acq: 23 Aug 2019 13:49

Tgt Ion	117	Resp	301624
Ion	Ratio	Lower	Upper
117	100		
82	63.6	50.4	75.6
119	32.1	25.4	38.2





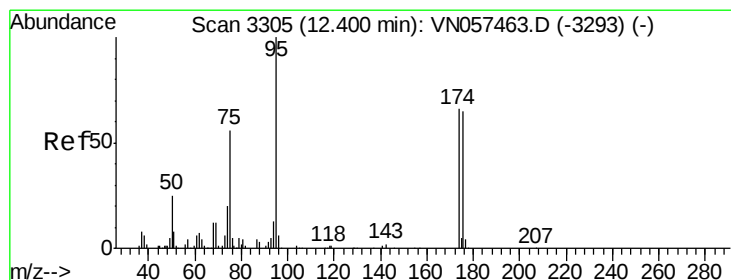
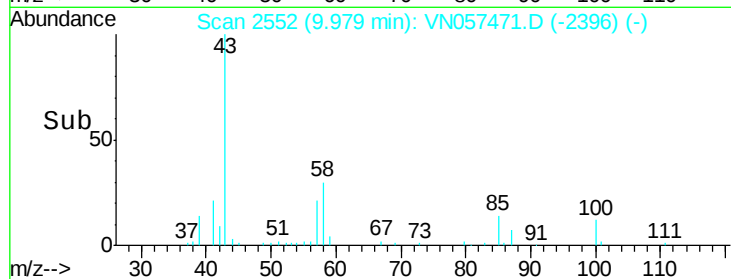
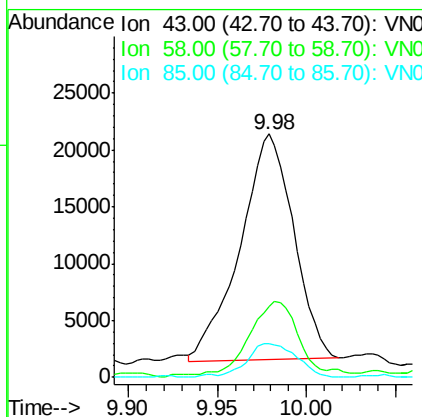
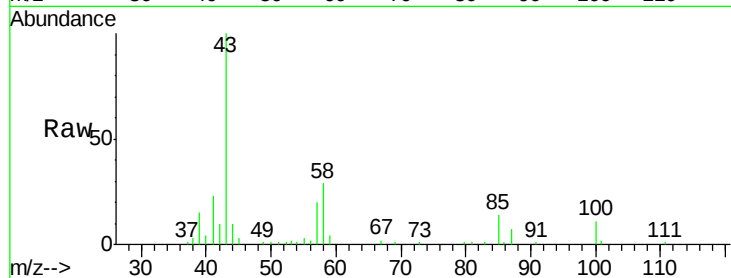
#58
 4-Methyl-2-Pentanone
 Concen: 7.060 ug/l
 RT: 9.98 min Scan# 2552
 Delta R.T. 0.00 min
 Lab File: VN057471.D
 Acq: 23 Aug 2019 13:49

Instrument :
 MSVOA_N
 ClientSampleId :
 390821767.1-VOA

Tot Ion	Ratio	Lower	Upper
43	100		
58	30.8	28.0	42.0
85	13.6	11.3	16.9

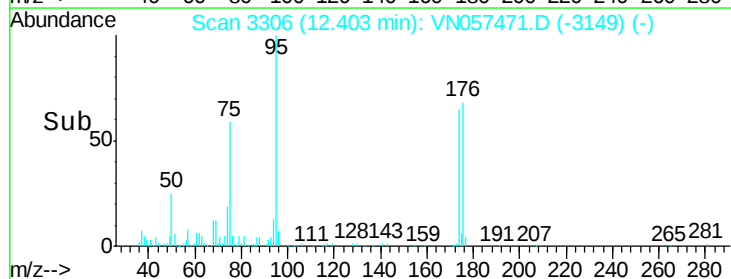
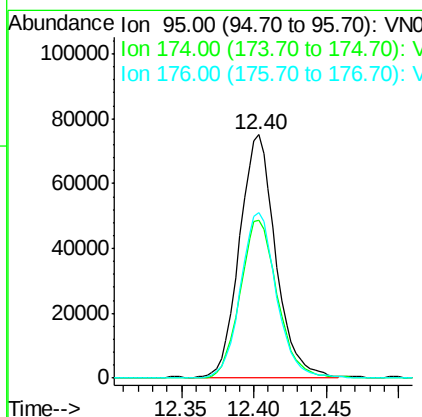
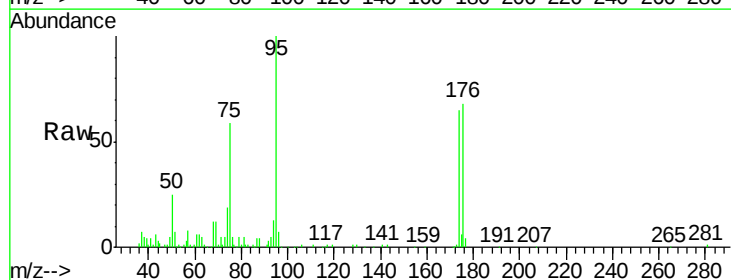
Manual Integrations
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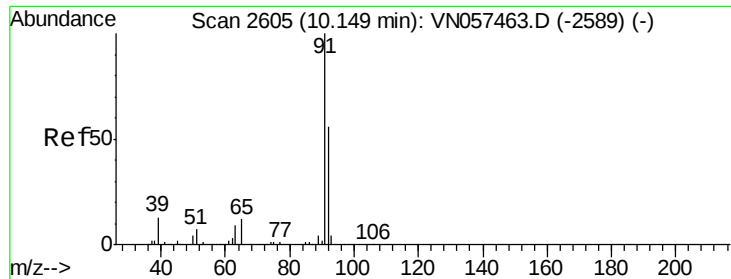
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#60
 4-Bromofluorobenzene
 Concen: 26.003 ug/l
 RT: 12.40 min Scan# 3306
 Delta R.T. 0.00 min
 Lab File: VN057471.D
 Acq: 23 Aug 2019 13:49

Tgt Ion	Ratio	Lower	Upper
95	100		
174	67.5	54.9	82.3
176	67.9	54.2	81.4





#62

Toluene

Concen: 2.291 ug/l

RT: 10.15 min Scan# 2605

Delta R.T. 0.00 min

Lab File: VN057471.D

Acq: 23 Aug 2019 13:49

Instrument :

MSVOA_N

ClientSampleId :

390821767.1-VOA

Tot Ion: 91 Resp: 42226

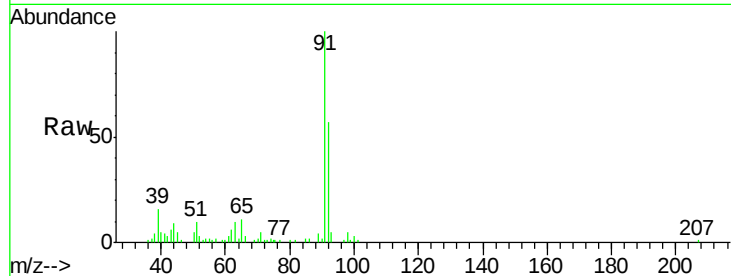
Ion Ratio Lower Upper

91 100

92 58.0 45.4 68.0

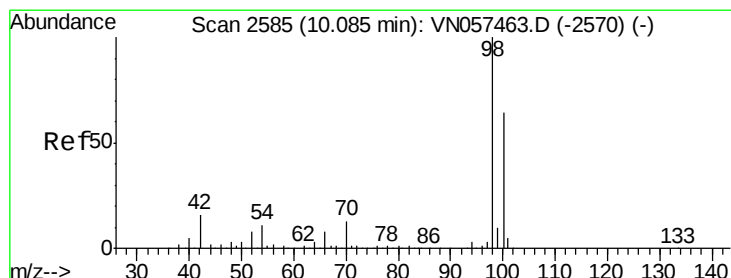
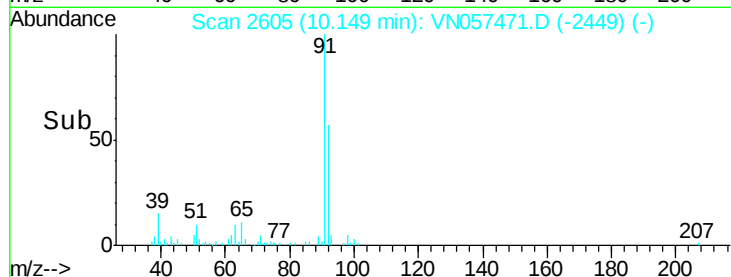
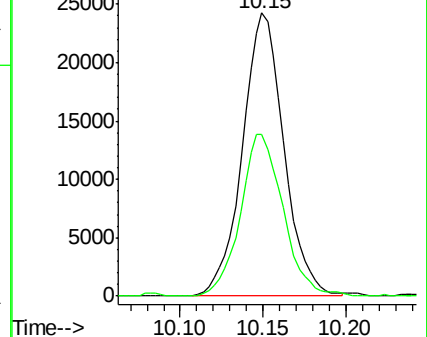
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Abundance Ion 91.00 (90.70 to 91.70): VN057463.D (-2589) (-)

Ion 92.00 (91.70 to 92.70): VN057463.D (-2589) (-)



#63

Toluene-d8

Concen: 31.766 ug/l

RT: 10.09 min Scan# 2585

Delta R.T. 0.00 min

Lab File: VN057471.D

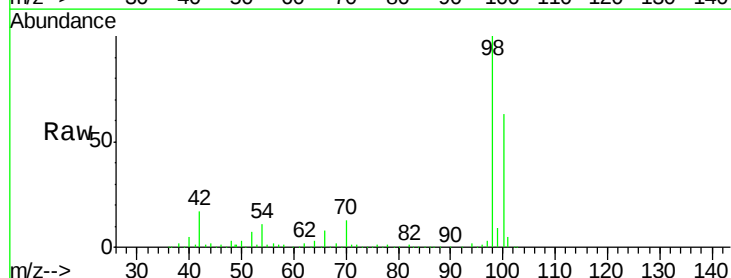
Acq: 23 Aug 2019 13:49

Tgt Ion: 98 Resp: 483865

Ion Ratio Lower Upper

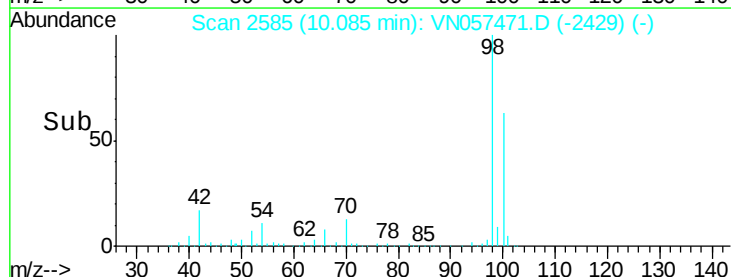
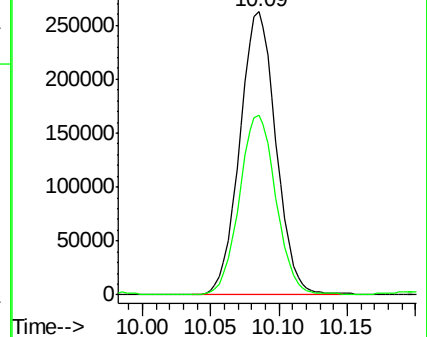
98 100

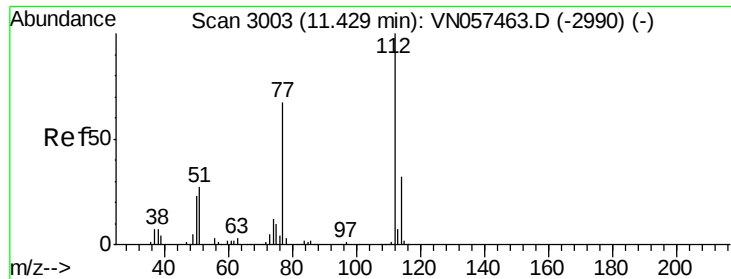
100 63.9 51.0 76.6



Abundance Ion 98.00 (97.70 to 98.70): VN057463.D (-2570) (-)

Ion 100.00 (99.70 to 100.70): VN057463.D (-2570) (-)





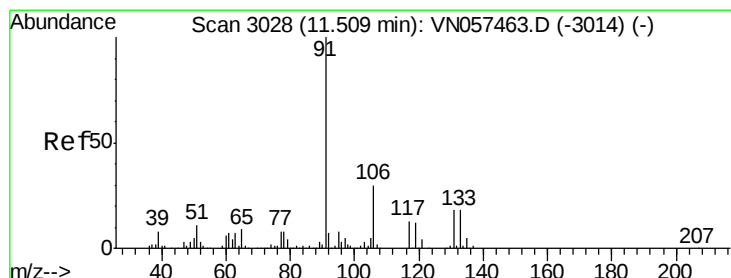
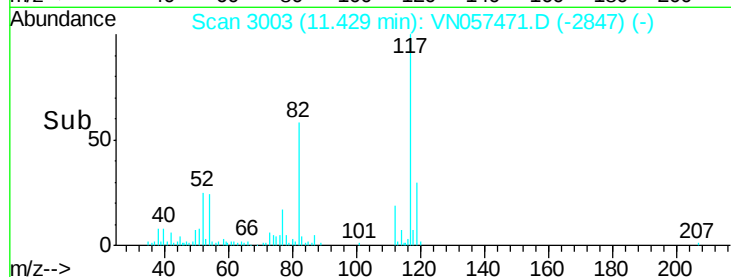
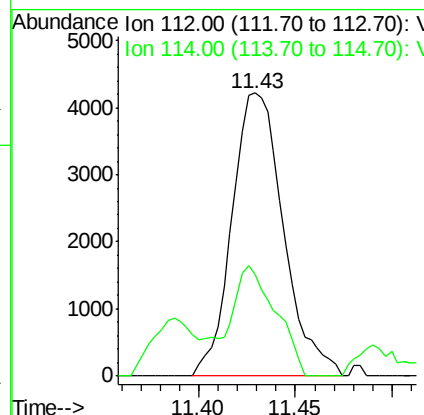
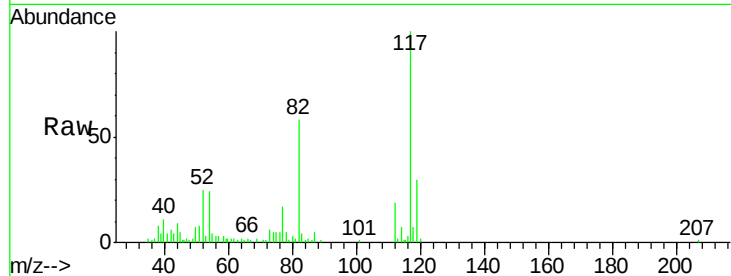
#64
Chlorobenzene
Concen: 0.781 ug/l
RT: 11.43 min Scan# 3003
Delta R.T. 0.00 min
Lab File: VN057471.D
Acq: 23 Aug 2019 13:49

Instrument :
MSVOA_N
ClientSampleId :
390821767.1-VOA

Tot Ion	Ratio	Lower	Upper
112	100		
114	36.0	25.6	38.4

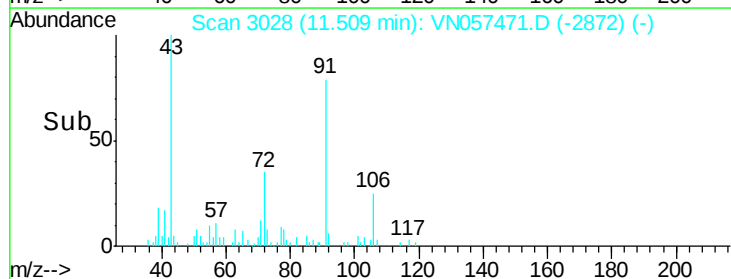
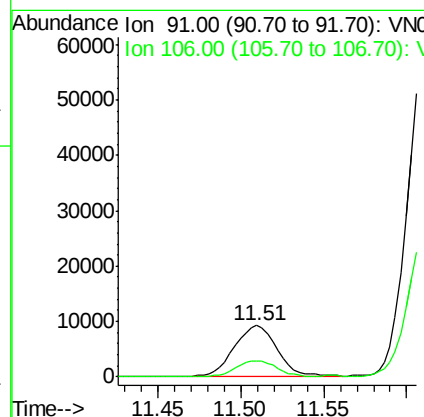
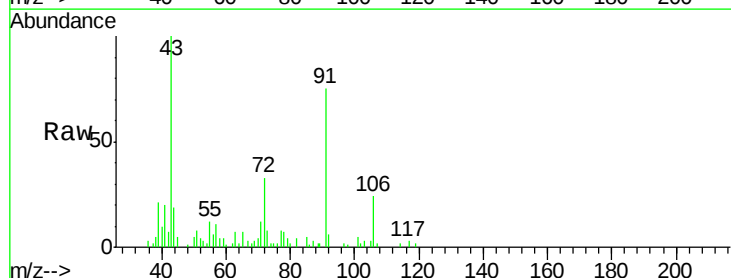
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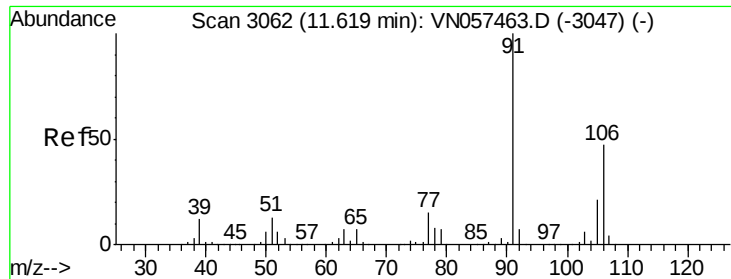
MMDadoda
8/26/2019 1:12:19 PM



#66
Ethyl Benzene
Concen: 0.858 ug/l
RT: 11.51 min Scan# 3028
Delta R.T. 0.00 min
Lab File: VN057471.D
Acq: 23 Aug 2019 13:49

Tgt Ion	Ratio	Lower	Upper
91	100		
106	31.6	23.6	35.4





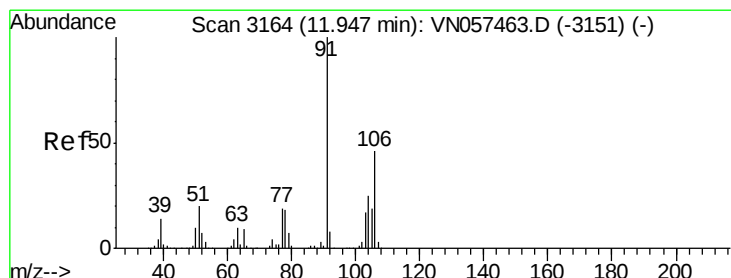
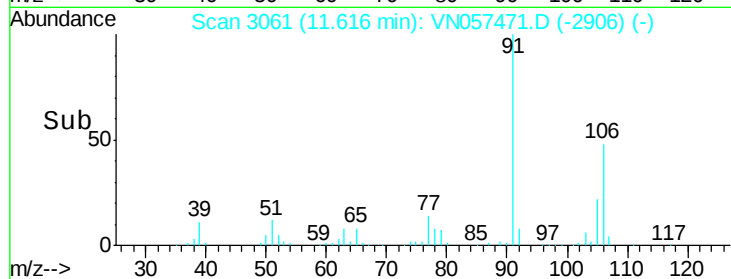
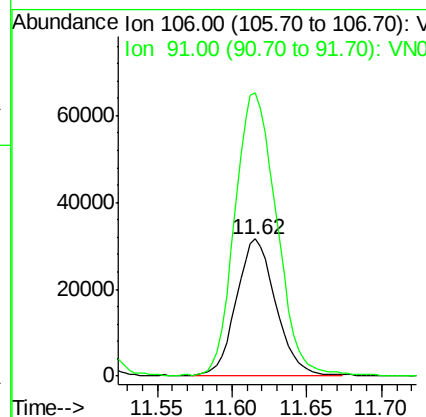
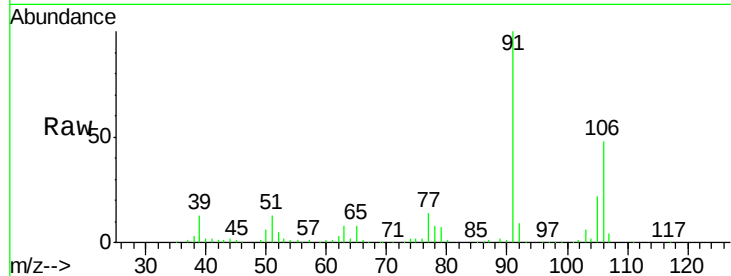
#67
m/p-Xylenes
Concen: 8.520 ug/l
RT: 11.62 min Scan# 3061
Delta R.T. -0.00 min
Lab File: VN057471.D
Acq: 23 Aug 2019 13:49

Instrument :
MSVOA_N
ClientSampleId :
390821767.1-VOA

Tot Ion:106 Resp: 58303
Ion Ratio Lower Upper
106 100
91 215.7 172.9 259.3

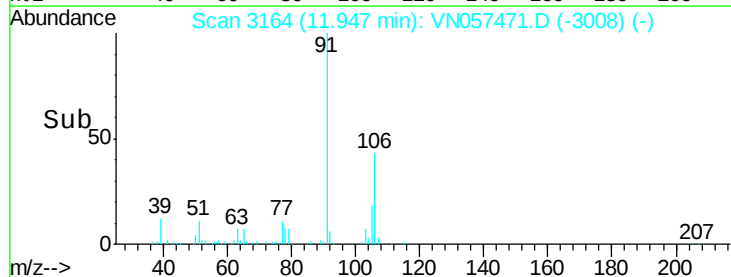
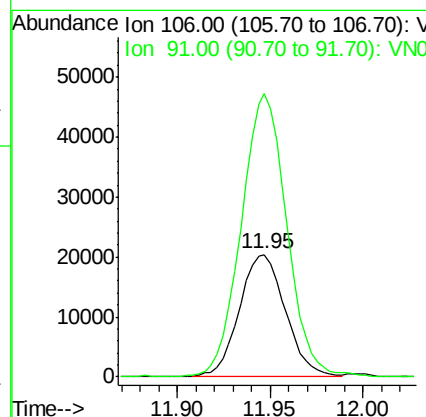
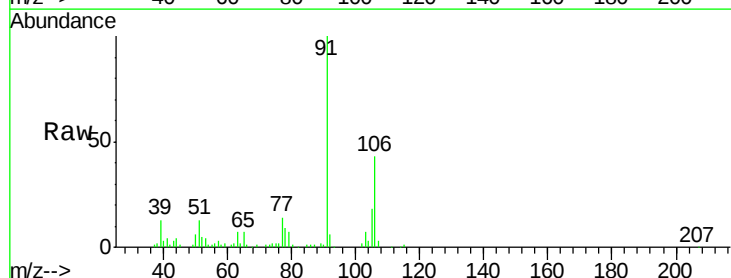
Manual Integrations
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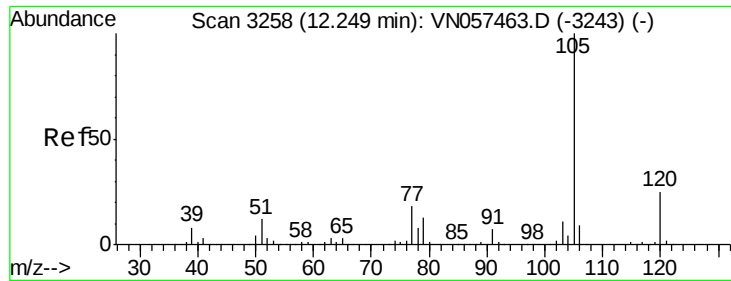
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#68
o-Xylene
Concen: 5.233 ug/l
RT: 11.95 min Scan# 3164
Delta R.T. 0.00 min
Lab File: VN057471.D
Acq: 23 Aug 2019 13:49

Tgt Ion:106 Resp: 35387
Ion Ratio Lower Upper
106 100
91 228.1 111.1 333.4





#70

Isopropylbenzene

Concen: 3.481 ug/l

RT: 12.25 min Scan# 3258

Delta R.T. 0.00 min

Lab File: VN057471.D

Acq: 23 Aug 2019 13:49

Instrument :

MSVOA_N

ClientSampleId :

390821767.1-VOA

Tot Ion:105 Resp: 62980

Ion Ratio Lower Upper

105 100

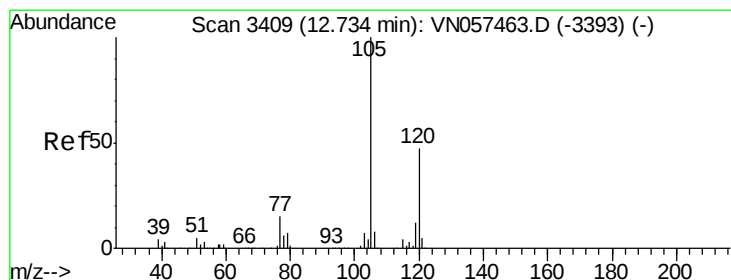
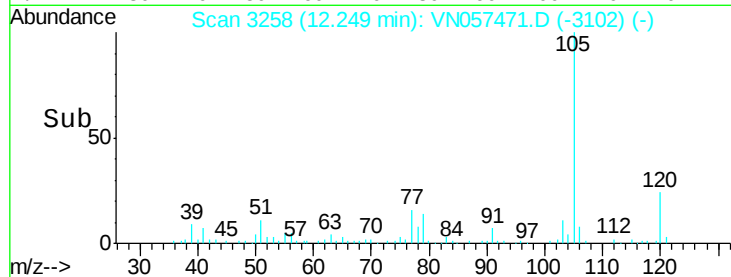
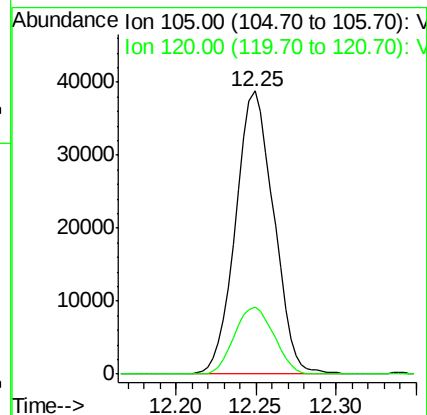
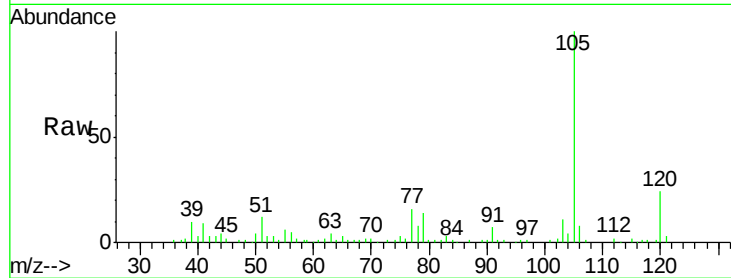
120 24.4 17.8 33.1

Manual Integrations

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#76

1,3,5-Trimethylbenzene

Concen: 0.892 ug/l

RT: 12.73 min Scan# 3409

Delta R.T. 0.00 min

Lab File: VN057471.D

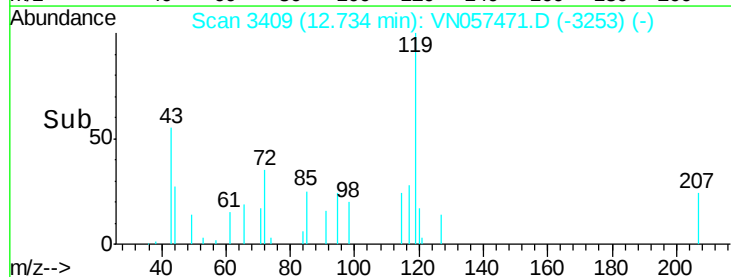
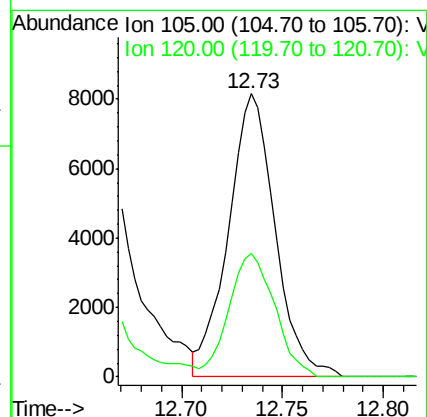
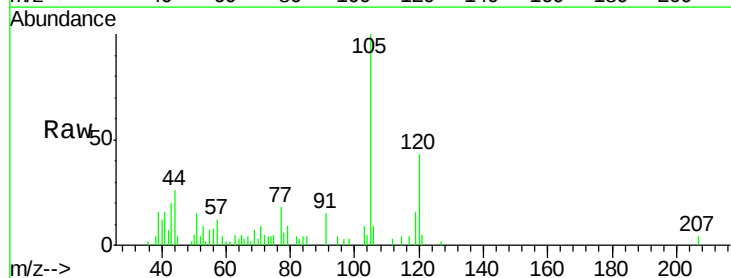
Acq: 23 Aug 2019 13:49

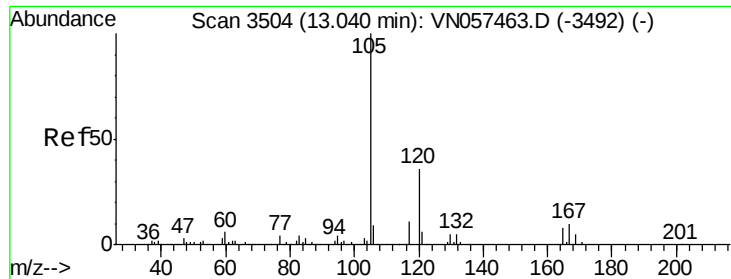
Tgt Ion:105 Resp: 13242

Ion Ratio Lower Upper

105 100

120 42.5 0.0 94.4





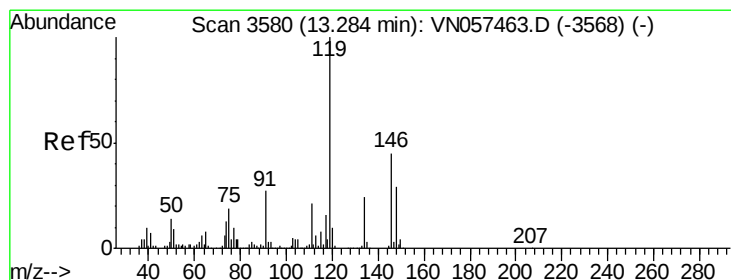
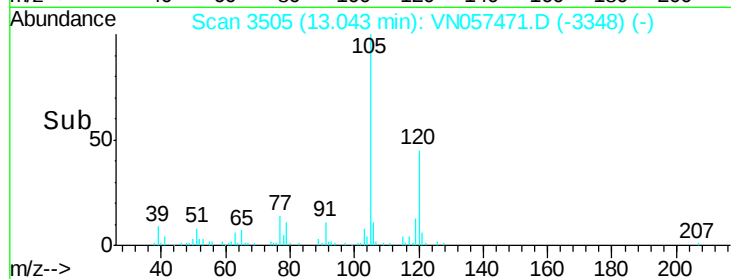
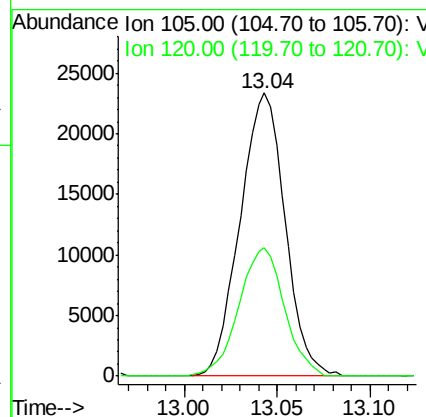
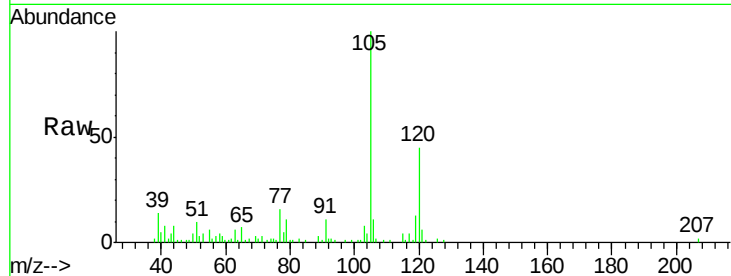
#80
 1,2,4-Trimethylbenzene
 Concen: 2.855 ug/l
 RT: 13.04 min Scan# 3505
 Delta R.T. 0.00 min
 Lab File: VN057471.D
 Acq: 23 Aug 2019 13:49

Instrument :
 MSVOA_N
 ClientSampleId :
 390821767.1-VOA

Tot Ion	Ratio	Resp	Lower	Upper
105	100	39515		
120	45.6	0.0	85.4	

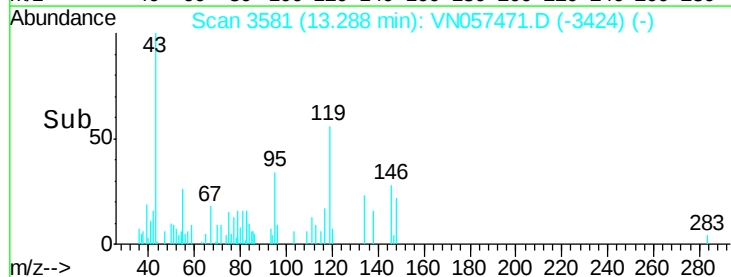
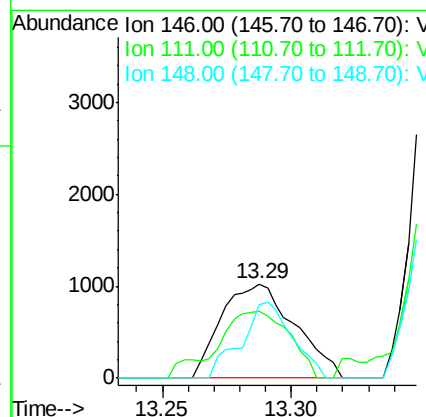
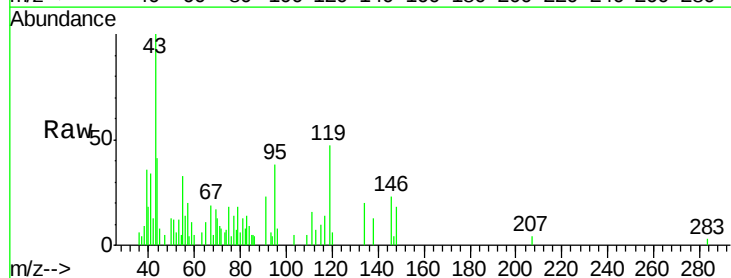
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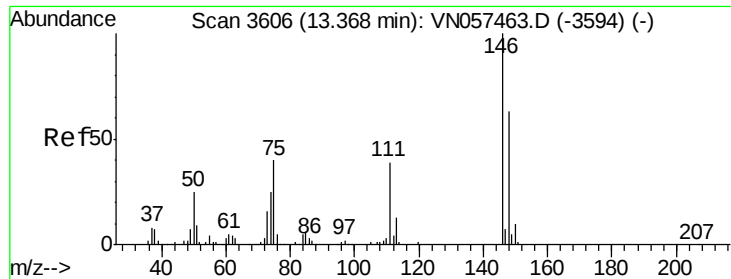
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#83
 1,3-Dichlorobenzene
 Concen: 0.355 ug/l
 RT: 13.29 min Scan# 3581
 Delta R.T. 0.00 min
 Lab File: VN057471.D
 Acq: 23 Aug 2019 13:49

Tgt Ion	Ratio	Resp	Lower	Upper
146	100	2024		
111	63.0	22.4	67.0	
148	44.5	31.8	95.4	





#84

1,4-Dichlorobenzene

Concen: 3.831 ug/l

RT: 13.37 min Scan# 3606

Delta R.T. 0.00 min

Lab File: VN057471.D

Acq: 23 Aug 2019 13:49

Instrument :

MSVOA_N

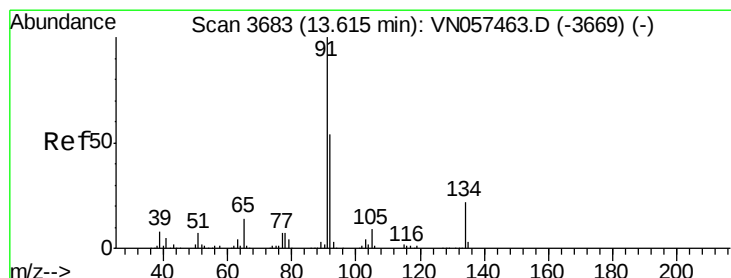
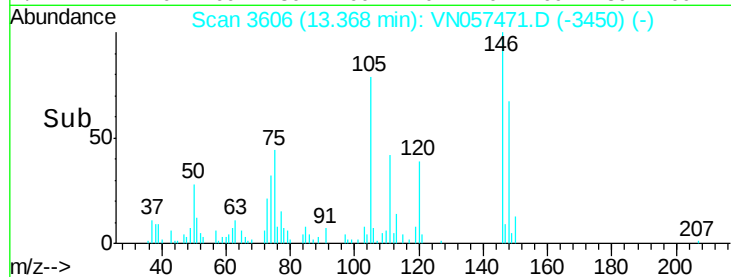
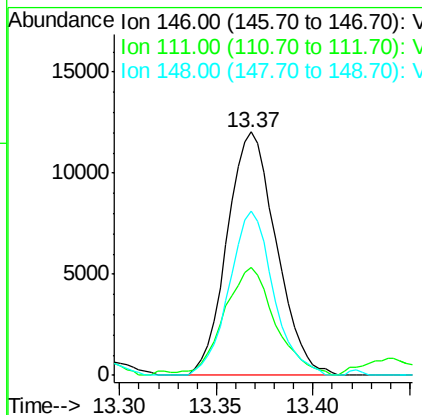
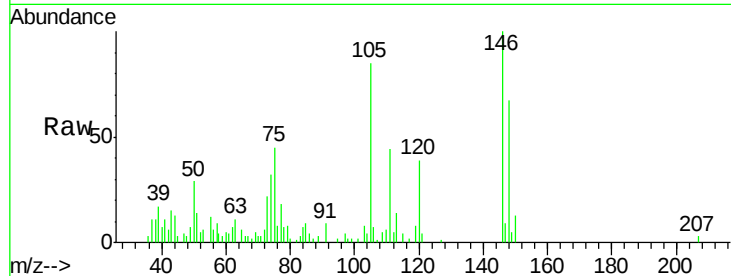
ClientSampleId :

390821767.1-VOA

Tot Ion:	146	Resp:	21245
Ion Ratio	Lower	Upper	
146	100		
111	46.2	20.5	61.5
148	60.8	31.9	95.7

Manual Integrations
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#85

n-Butylbenzene

Concen: 0.357 ug/l

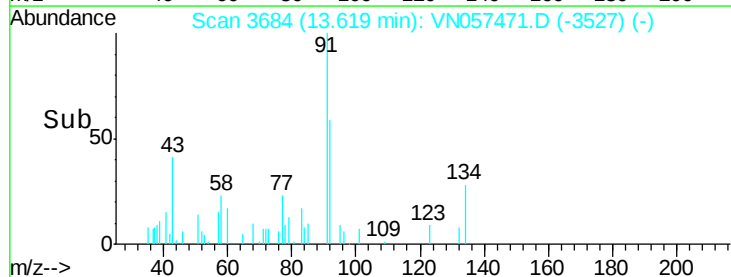
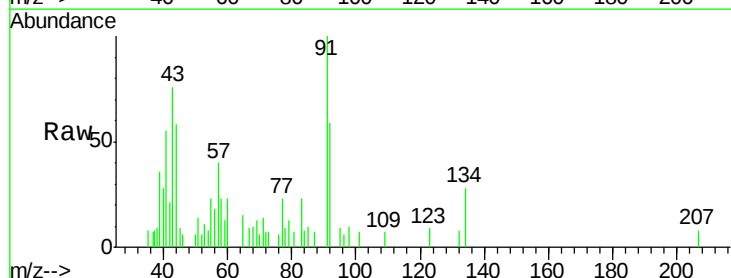
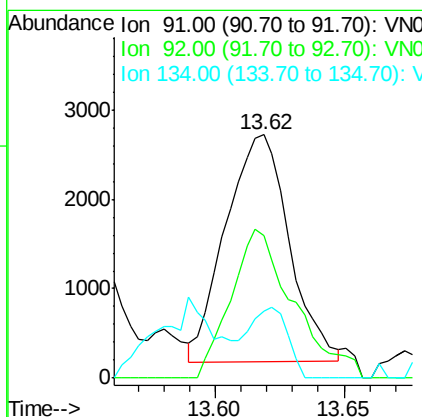
RT: 13.62 min Scan# 3684

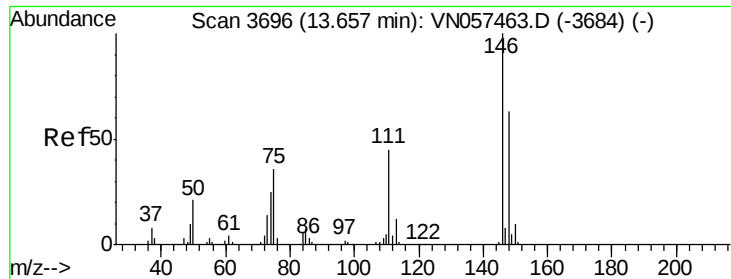
Delta R.T. 0.00 min

Lab File: VN057471.D

Acq: 23 Aug 2019 13:49

Tgt Ion:	91	Resp:	4354
Ion Ratio	Lower	Upper	
91	100		
92	64.7	0.0	105.6
134	18.4	0.0	46.0





#87

1,2-Dichlorobenzene

Concen: 0.667 ug/l m

RT: 13.66 min Scan# 3698

Delta R.T. 0.01 min

Lab File: VN057471.D

Acq: 23 Aug 2019 13:49

Instrument :

MSVOA_N

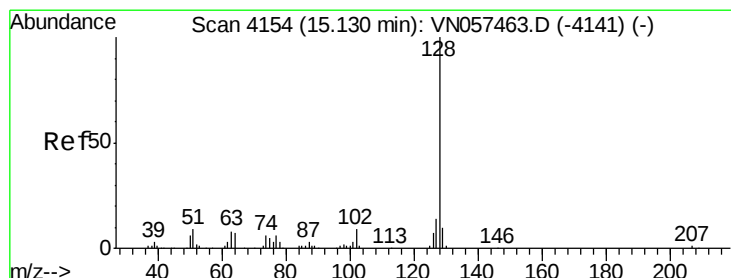
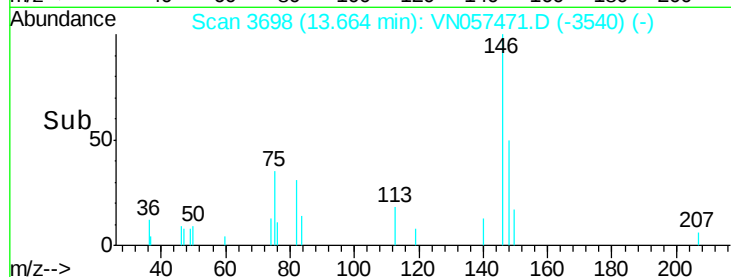
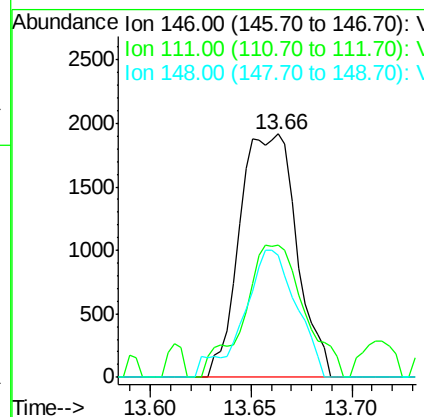
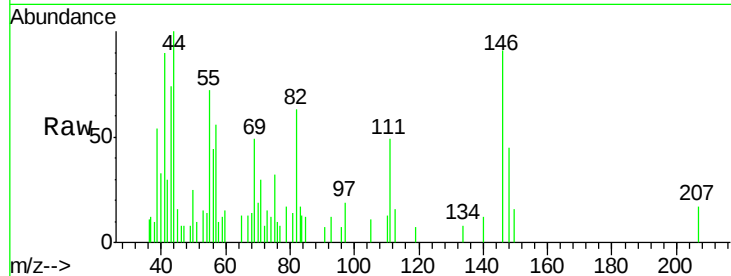
ClientSampleId :

390821767.1-VOA

Tot Ion:	146	Resp:	3732
Ion Ratio	Lower	Upper	
146	100		
111	262.7	22.5	67.5#
148	346.2	30.9	92.7#

Manual Integrations
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#91

Naphthalene

Concen: 10.665 ug/l

RT: 15.13 min Scan# 4155

Delta R.T. 0.00 min

Lab File: VN057471.D

Acq: 23 Aug 2019 13:49

Tgt Ion:	128	Resp:	9473
Ion Ratio	Lower	Upper	
128	100		
127	16.3	10.1	15.1#
129	5.1	8.6	13.0#

