

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN082020\
 Data File : VN063039.D
 Acq On : 20 Aug 2020 16:24
 Operator : JC/MD
 Sample : L3766-01
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 200819016-02-VOA

Manual Integrations
 APPROVED

MMDadoda
 8/21/2020 9:21:00 AM

Quant Time: Aug 21 06:11:56 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N082020W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu Aug 20 14:01:17 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.15	128	31081	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.55	114	156300	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.38	117	145795	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	7.99	65	65699	29.83	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	99.43%
60) 4-Bromofluorobenzene	12.38	95	60348	26.19	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	87.30%
63) Toluene-d8	10.06	98	189844	28.37	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	94.57%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
4) Vinyl Chloride	2.16	62	925	0.374	ug/l	98
8) Diethyl Ether	3.37	74	3152	3.175	ug/l	98
15) Acetone	3.77	58	28987	118.313	ug/l #	57
23) tert-Butyl Alcohol	4.73	59	1524237	5496.005	ug/l #	100
24) Methyl tert-Butyl Ether	4.99	73	14867m	2.794	ug/l	
30) 2-Butanone	6.78	43	99066	93.638	ug/l #	86
31) 2,2-Dichloropropane	6.78	77	90842	32.925	ug/l #	53
34) Benzene	8.00	78	26982	3.709	ug/l #	52
45) 1,4-Dioxane	9.17	88	3200	100.788	ug/l	99
58) 4-Methyl-2-Pentanone	9.95	43	13841	6.599	ug/l #	81
62) Toluene	10.13	91	15931	2.062	ug/l	98
64) Chlorobenzene	11.41	112	3629	0.759	ug/l	98
67) m/p-Xylenes	11.59	106	22307	7.069	ug/l	98
68) o-Xylene	11.92	106	14962	4.936	ug/l	97
76) 1,3,5-Trimethylbenzene	12.71	105	4668	0.663	ug/l	100
80) 1,2,4-Trimethylbenzene	13.02	105	14639	2.137	ug/l	98
82) p-Isopropyltoluene	13.26	119	11728	1.622	ug/l	98
84) 1,4-Dichlorobenzene	13.34	146	14538	3.831	ug/l	99
87) 1,2-Dichlorobenzene	13.63	146	1303	0.350	ug/l	90
91) Naphthalene	15.11	128	5341	1.317	ug/l	98

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

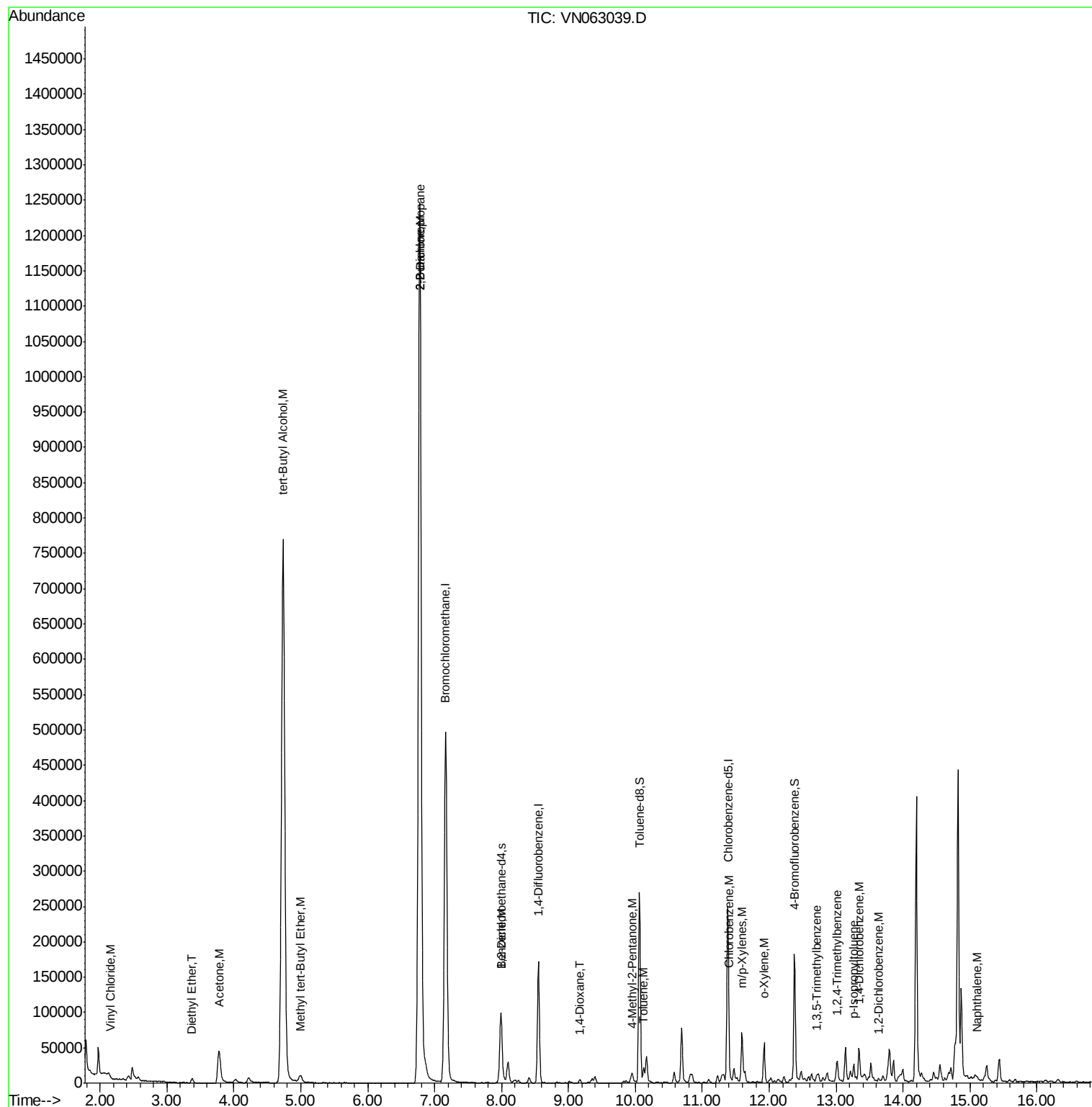
Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN082020\
Data File : VN063039.D
Acq On : 20 Aug 2020 16:24
Operator : JC/MD
Sample : L3766-01
Misc : 5.00mL/MSVOA N/WATER
ALS Vial : 16 Sample Multiplier: 1

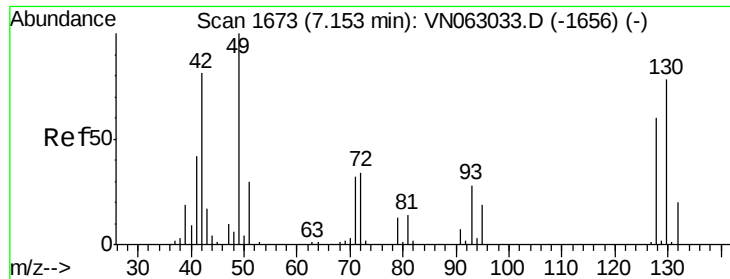
Instrument :
MSVOA_N
ClientSampleId :
200819016-02-VOA

Manual Integrations
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Quant Time: Aug 21 06:11:56 2020
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N082020W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Thu Aug 20 14:01:17 2020
Response via : Initial Calibration





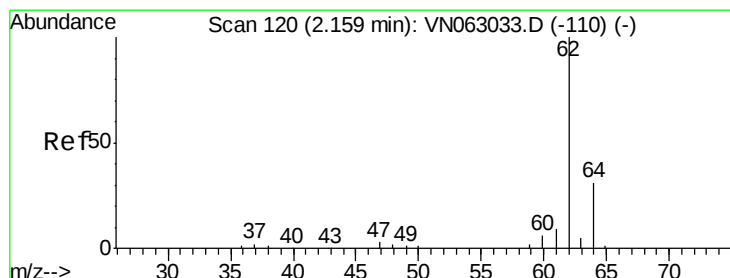
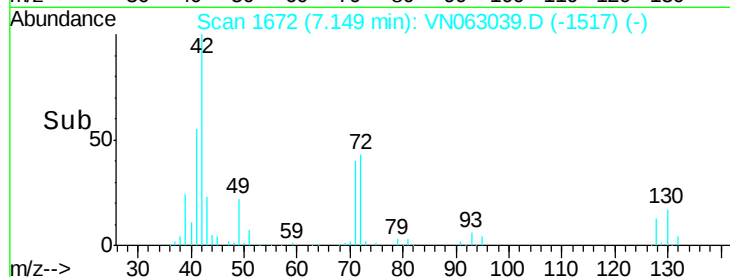
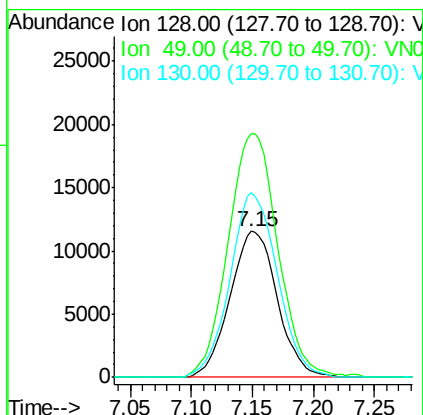
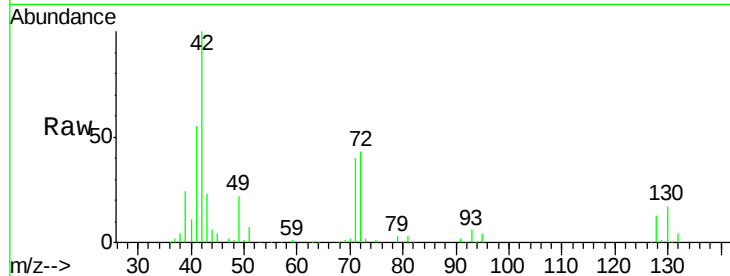
#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 7.15 min Scan# 1672
Delta R.T. -0.00 min
Lab File: VN063039.D
Acq: 20 Aug 2020 16:24

Instrument :
MSVOA_N
ClientSampleId :
200819016-02-VOA

Tot Ion	Ratio	Lower	Upper
128	100		
49	174.7	0.0	437.5
130	126.5	0.0	327.3

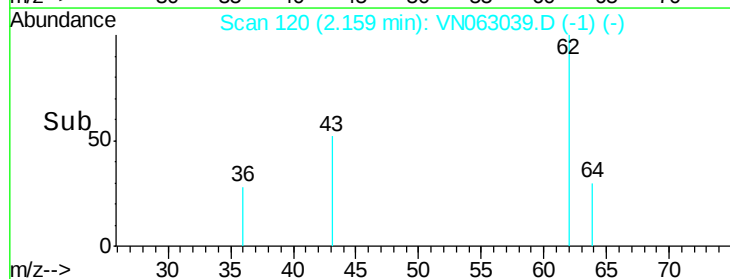
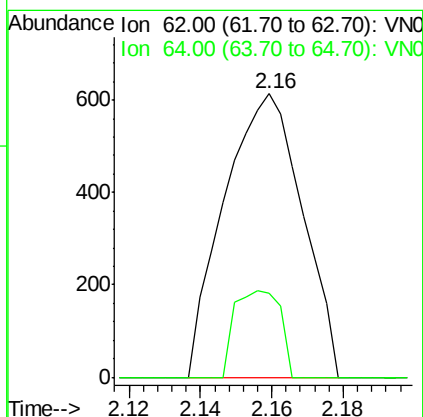
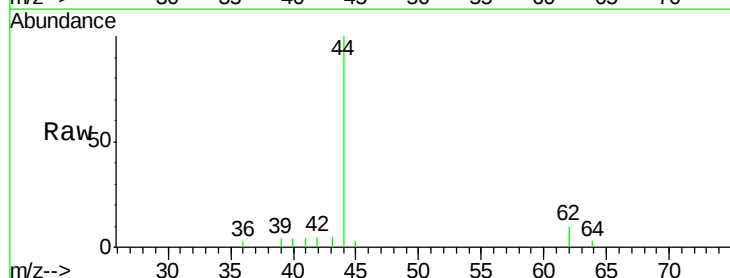
Manual Integrations
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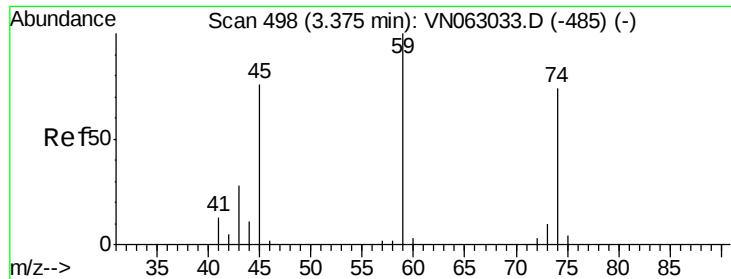
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#4
Vinyl Chloride
Concen: 0.374 ug/l
RT: 2.16 min Scan# 120
Delta R.T. -0.00 min
Lab File: VN063039.D
Acq: 20 Aug 2020 16:24

Tgt Ion	Ratio	Lower	Upper
62	100		
64	29.9	25.0	37.4





#8

Diethyl Ether

Concen: 3.175 ug/l

RT: 3.37 min Scan# 497

Delta R.T. -0.00 min

Lab File: VN063039.D

Acq: 20 Aug 2020 16:24

Instrument :

MSVOA_N

ClientSampleId :

200819016-02-VOA

Tot Ion: 74 Resp: 3152

Ion Ratio Lower Upper

74 100

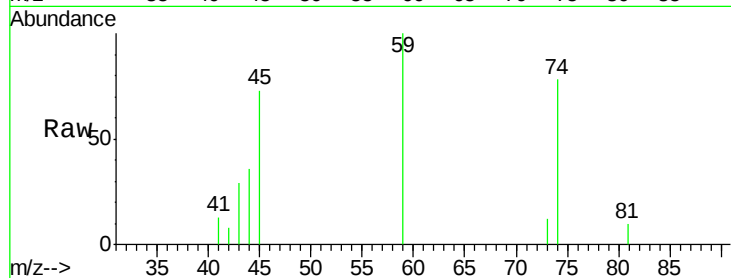
45 101.1 20.6 185.4

Manual Integrations

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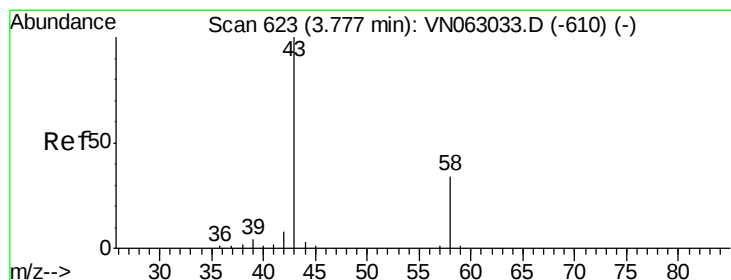
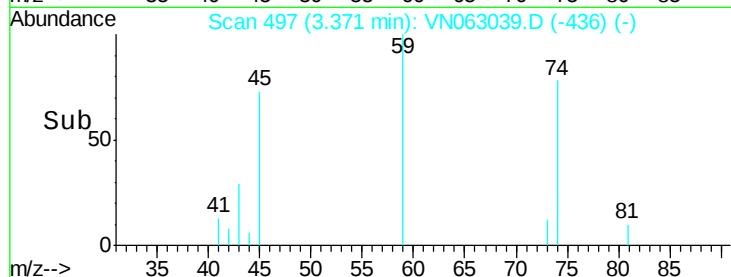
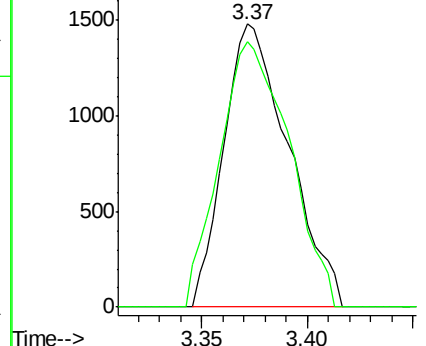
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Abundance Ion 74.00 (73.70 to 74.70): VN0

Ion 45.00 (44.70 to 45.70): VN0



#15

Acetone

Concen: 118.313 ug/l

RT: 3.77 min Scan# 622

Delta R.T. -0.00 min

Lab File: VN063039.D

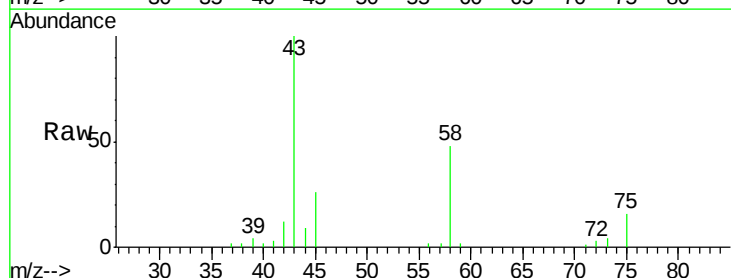
Acq: 20 Aug 2020 16:24

Tgt Ion: 58 Resp: 28987

Ion Ratio Lower Upper

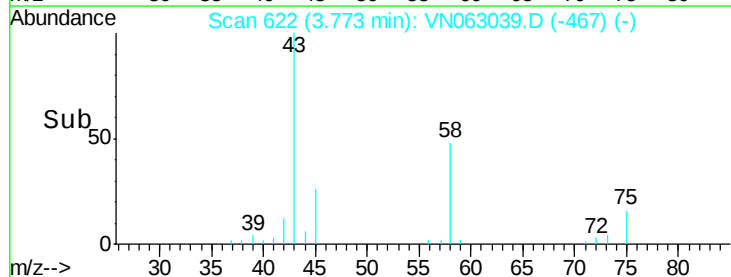
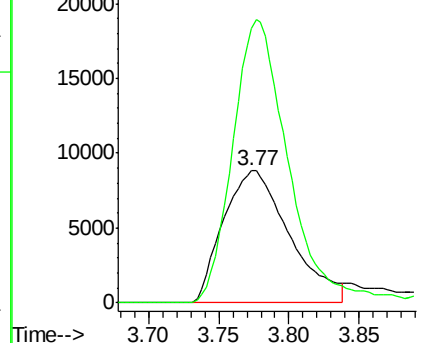
58 100

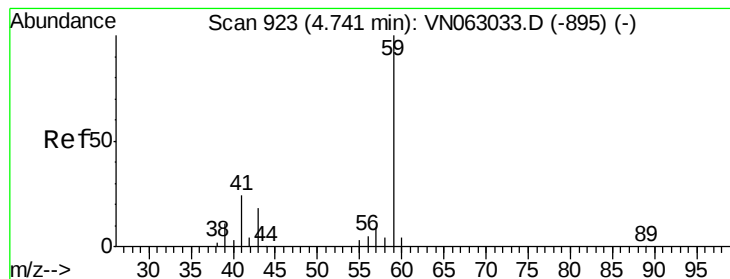
43 207.8 233.2 349.8#



Abundance Ion 58.00 (57.70 to 58.70): VN0

Ion 43.00 (42.70 to 43.70): VN0





#23

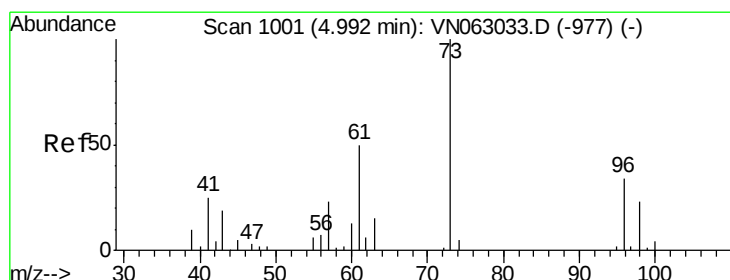
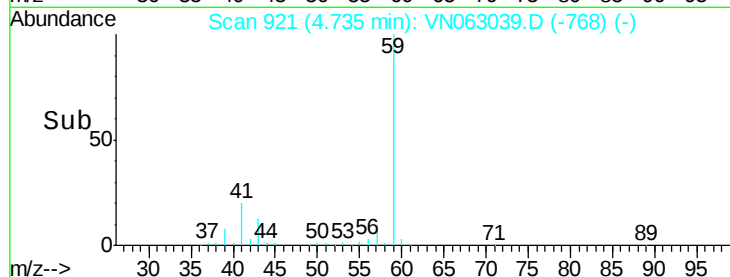
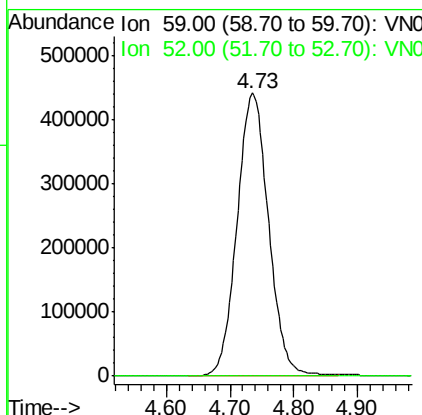
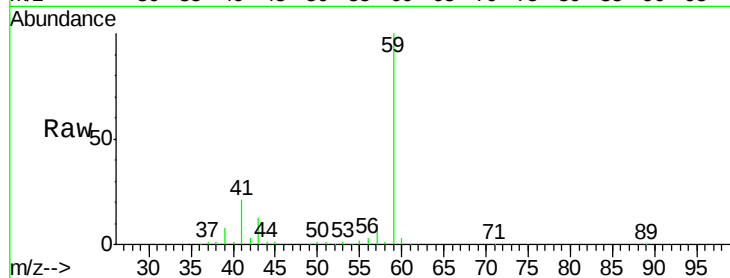
tert-Butyl Alcohol
 Concen: 5496.005 ug/l
 RT: 4.73 min Scan# 921
 Delta R.T. -0.01 min
 Lab File: VN063039.D
 Acq: 20 Aug 2020 16:24

Instrument :
 MSVOA_N
 ClientSampleId :
 200819016-02-VOA

Tot Ion: 59 Resp: 1524237
 Ion Ratio Lower Upper
 59 100
 52 0.2 0.0 0.0#

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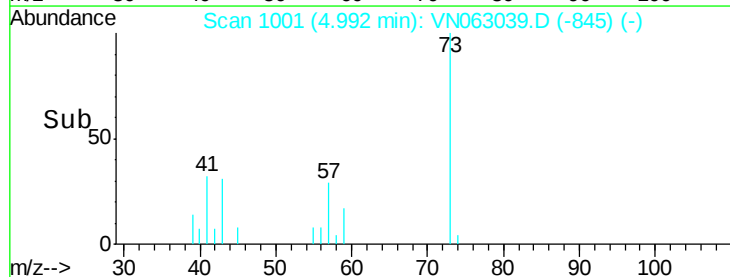
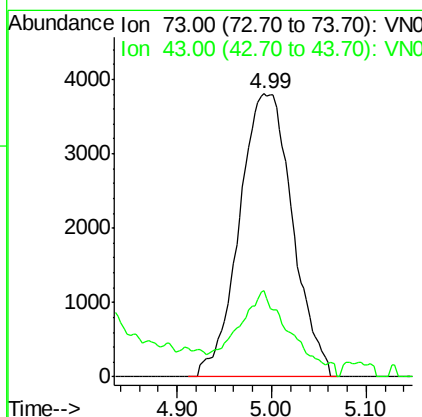
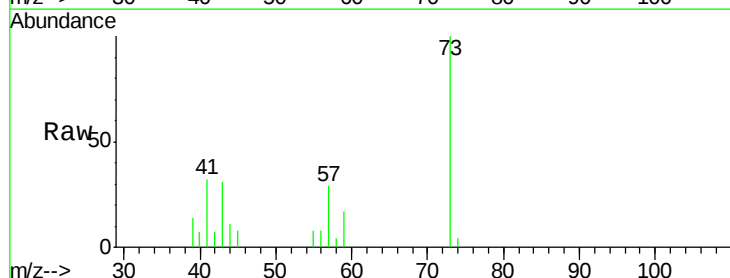
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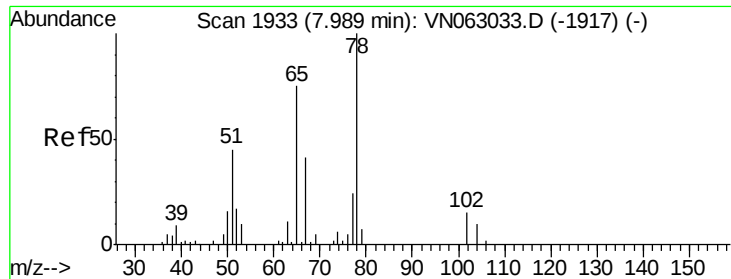


#24

Methyl tert-Butyl Ether
 Concen: 2.794 ug/l m
 RT: 4.99 min Scan# 1001
 Delta R.T. -0.00 min
 Lab File: VN063039.D
 Acq: 20 Aug 2020 16:24

Tgt Ion: 73 Resp: 14867
 Ion Ratio Lower Upper
 73 100
 43 11.6 15.8 23.6#





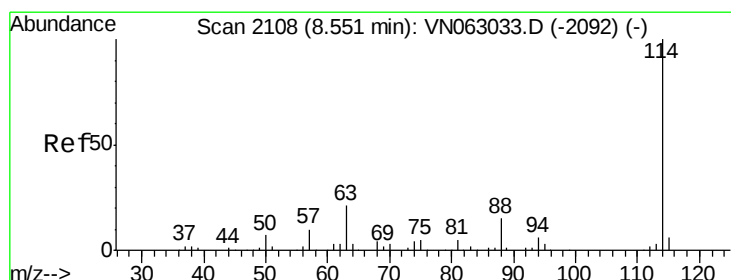
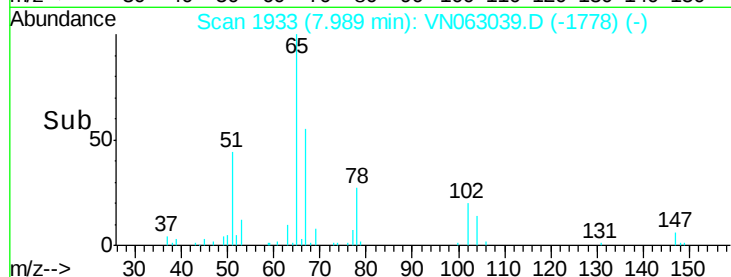
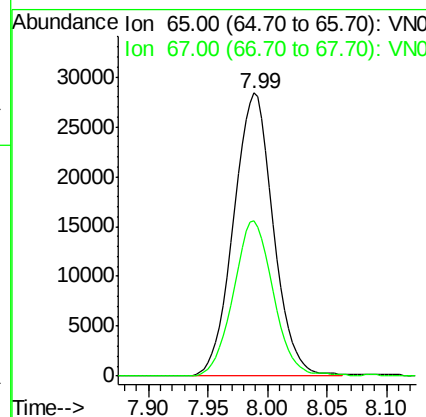
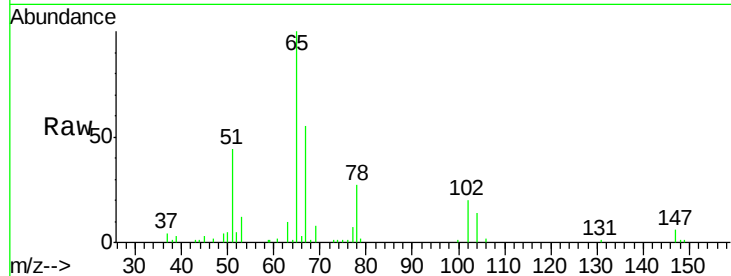
#27
 1,2-Dichloroethane-d4
 Concen: 29.833 ug/l
 RT: 7.99 min Scan# 1933
 Delta R.T. -0.00 min
 Lab File: VN063039.D
 Acq: 20 Aug 2020 16:24

Instrument :
 MSVOA_N
 ClientSampleId :
 200819016-02-VOA

Tot Ion	Ratio	Lower	Upper
65	100		
67	55.0	43.8	65.6

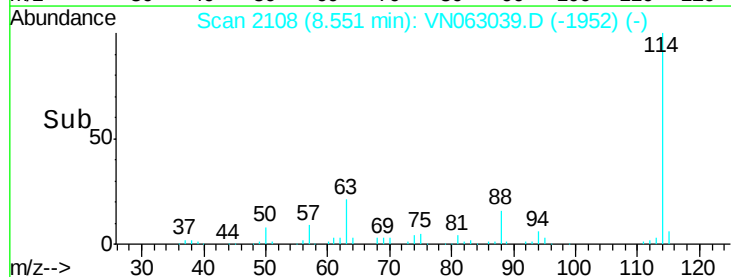
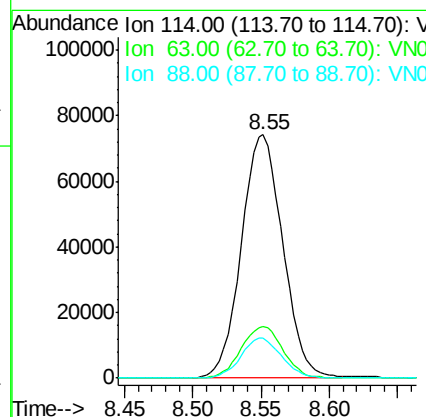
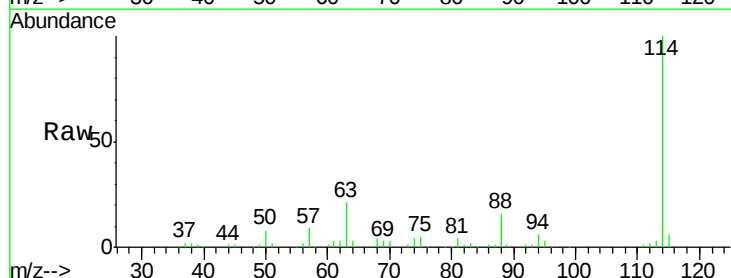
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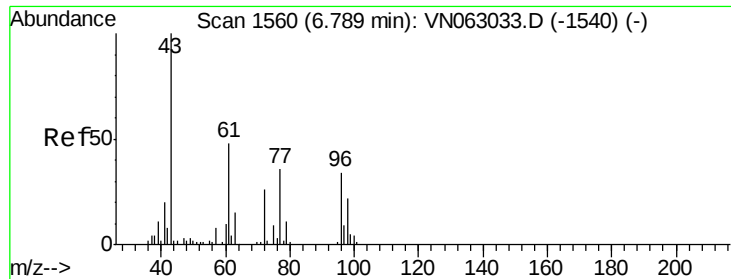
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 8/21/2020 9:21:00 AM



#28
 1,4-Difluorobenzene
 Concen: 30.000 ug/l
 RT: 8.55 min Scan# 2108
 Delta R.T. -0.00 min
 Lab File: VN063039.D
 Acq: 20 Aug 2020 16:24

Tgt Ion	Ratio	Lower	Upper
114	100		
63	21.4	17.0	25.6
88	16.0	12.6	18.8





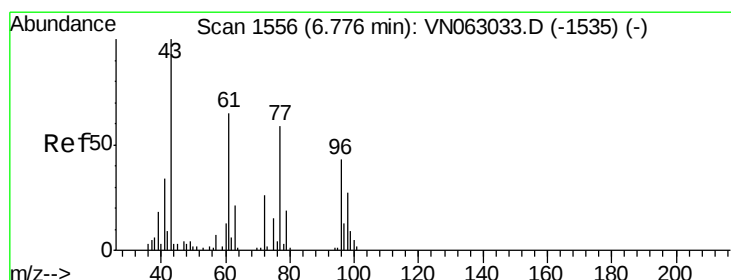
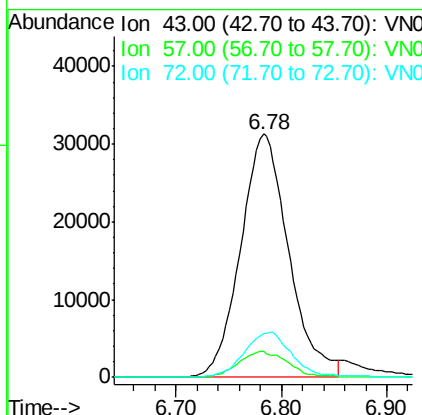
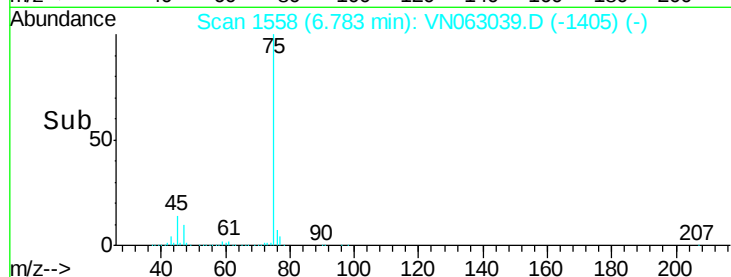
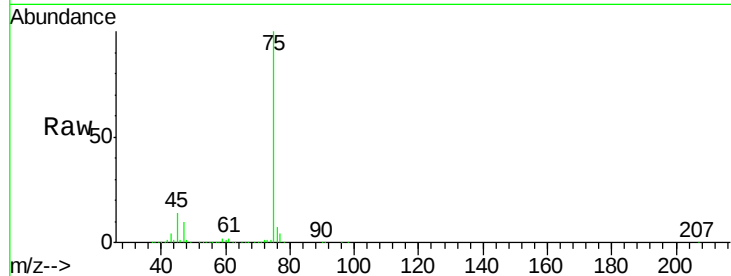
#30
 2-Butanone
 Concen: 93.638 ug/l
 RT: 6.78 min Scan# 1558
 Delta R.T. -0.01 min
 Lab File: VN063039.D
 Acq: 20 Aug 2020 16:24

Instrument :
 MSVOA_N
 ClientSampleId :
 200819016-02-VOA

Tot Ion	Ratio	Lower	Upper
43	100		
57	10.7	6.6	9.8#
72	18.1	21.3	31.9#

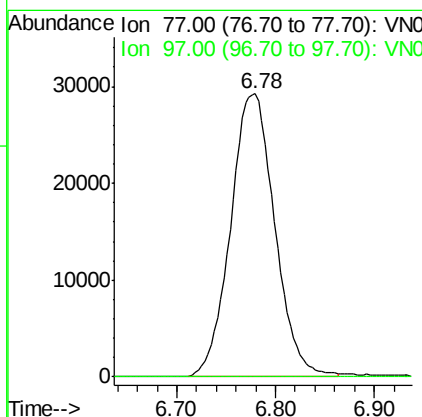
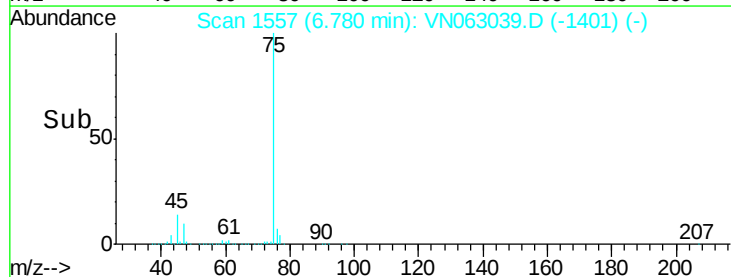
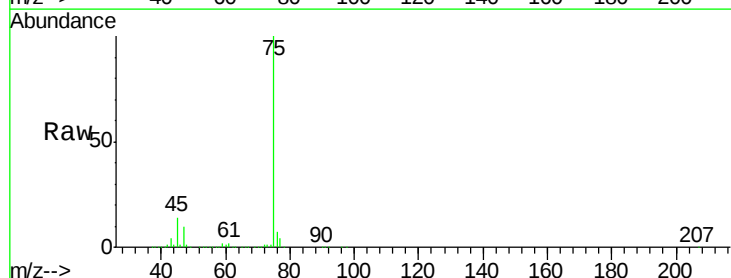
Manual Integrations
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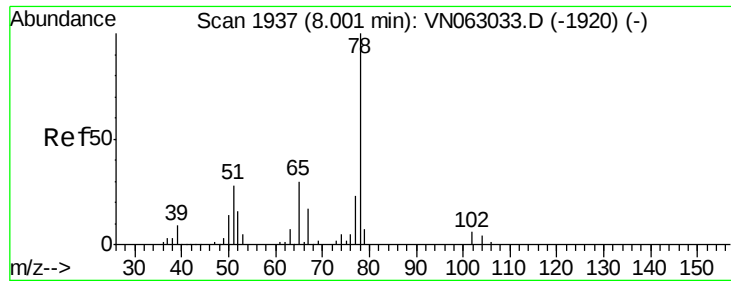
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 8/21/2020 9:21:00 AM



#31
 2,2-Dichloropropane
 Concen: 32.925 ug/l
 RT: 6.78 min Scan# 1557
 Delta R.T. 0.00 min
 Lab File: VN063039.D
 Acq: 20 Aug 2020 16:24

Tgt Ion	Ratio	Lower	Upper
77	100		
97	0.0	18.2	27.4#





#34

Benzene

Concen: 3.709 ug/l

RT: 8.00 min Scan# 1937

Delta R.T. -0.00 min

Lab File: VN063039.D

Acq: 20 Aug 2020 16:24

Instrument :

MSVOA_N

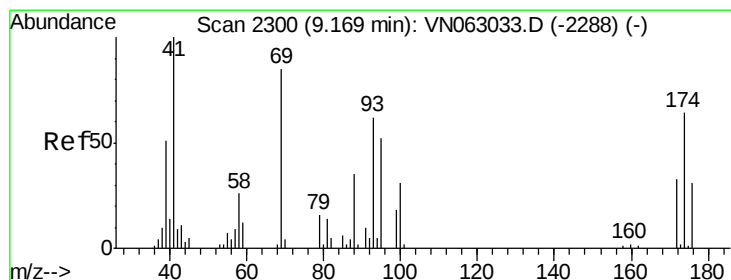
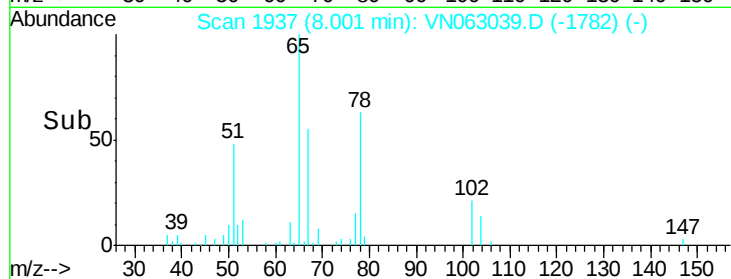
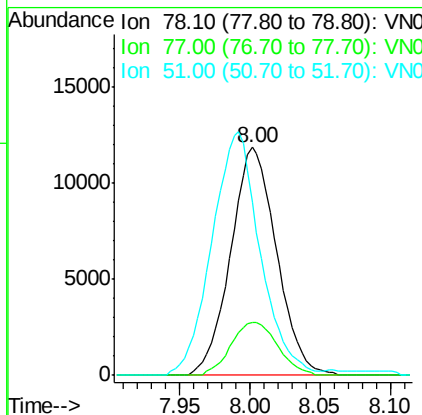
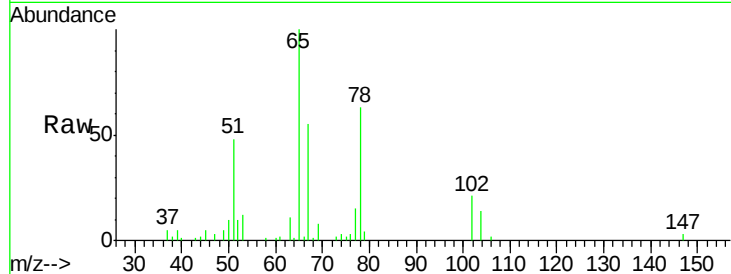
ClientSampleId :

200819016-02-VOA

Tot Ion	Ratio	Lower	Upper
78	100		
77	23.5	18.6	27.8
51	73.9	22.2	33.2#

Manual Integrations
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#45

1,4-Dioxane

Concen: 100.788 ug/l

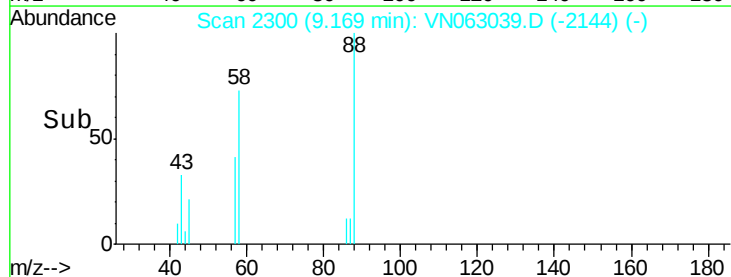
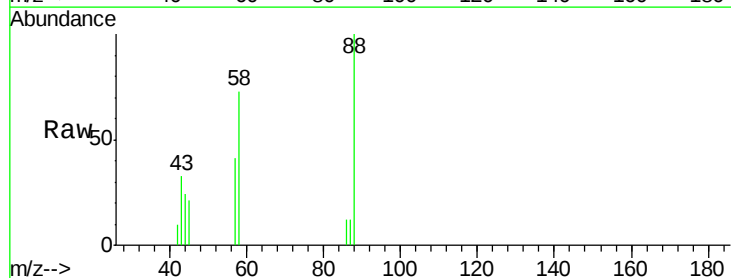
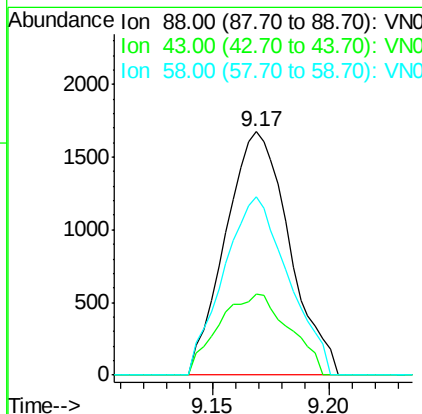
RT: 9.17 min Scan# 2300

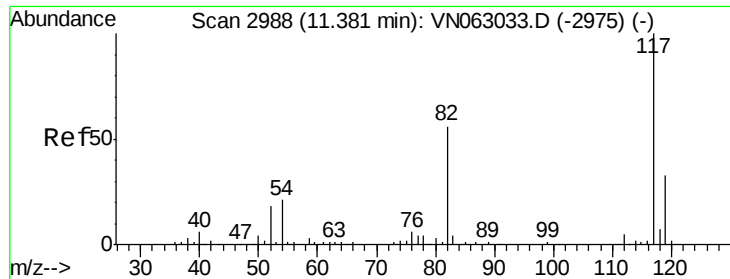
Delta R.T. -0.00 min

Lab File: VN063039.D

Acq: 20 Aug 2020 16:24

Tgt Ion	Ratio	Lower	Upper
88	100		
43	36.7	28.5	42.7
58	74.5	59.6	89.4





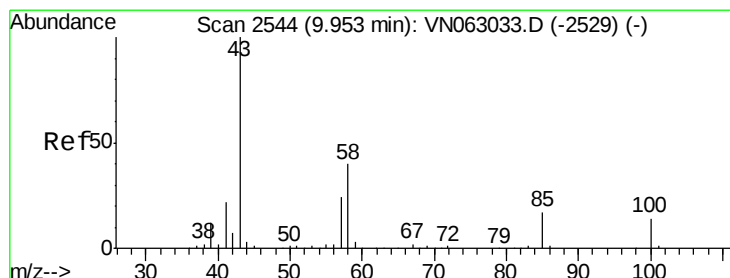
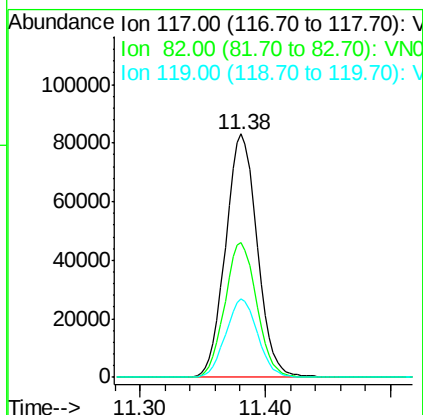
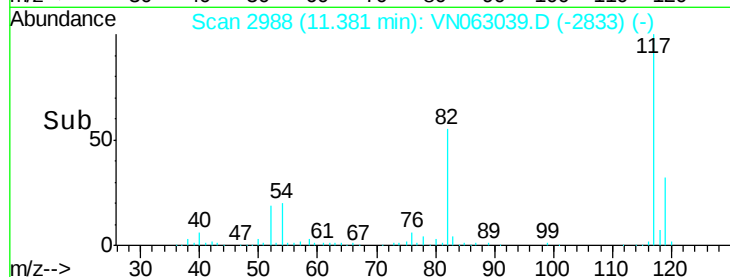
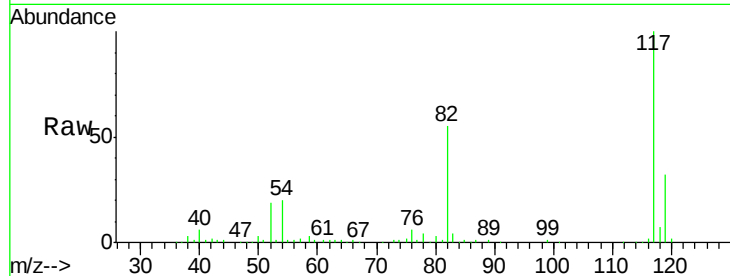
#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.38 min Scan# 2988
Delta R.T. -0.00 min
Lab File: VN063039.D
Acq: 20 Aug 2020 16:24

Instrument :
MSVOA_N
ClientSampleId :
200819016-02-VOA

Tot Ion	Ratio	Resp	Lower	Upper
117	100	145795		
82	55.7	44.9	67.3	
119	32.4	26.0	39.0	

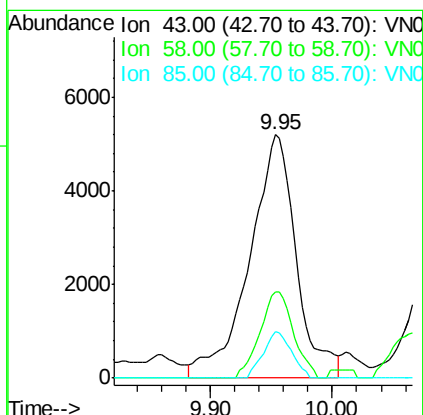
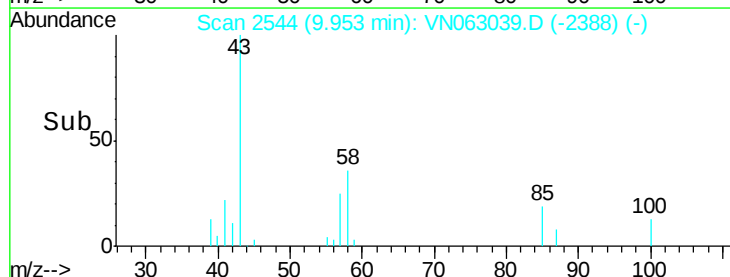
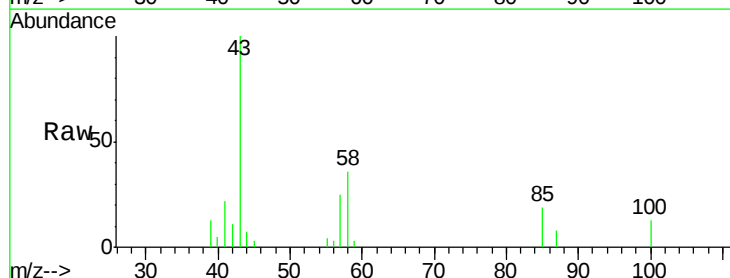
Manual Integrations
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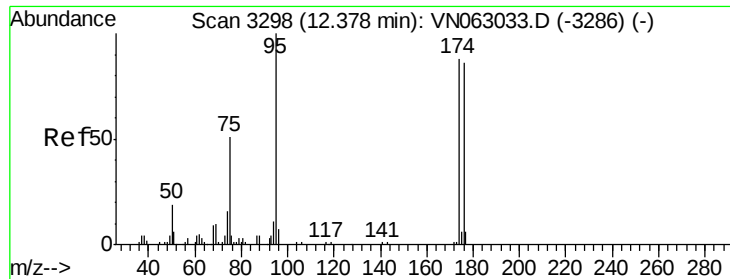
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8/21/2020 9:21:00 AM



#58
4-Methyl-2-Pentanone
Concen: 6.599 ug/l
RT: 9.95 min Scan# 2544
Delta R.T. -0.00 min
Lab File: VN063039.D
Acq: 20 Aug 2020 16:24

Tgt Ion	Ratio	Resp	Lower	Upper
43	100	13841		
58	25.5	31.4	47.0#	
85	11.5	13.4	20.2#	





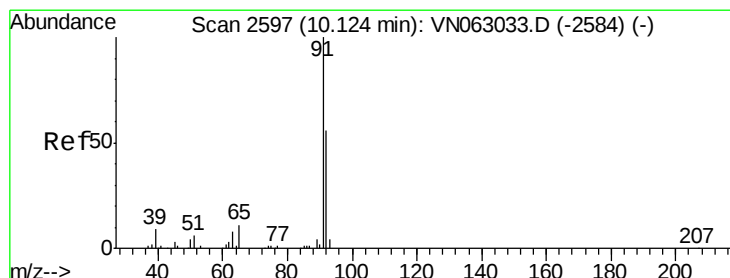
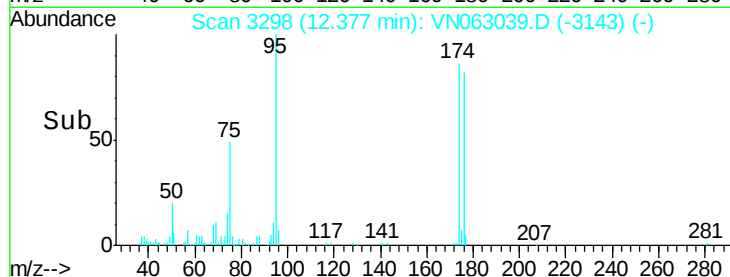
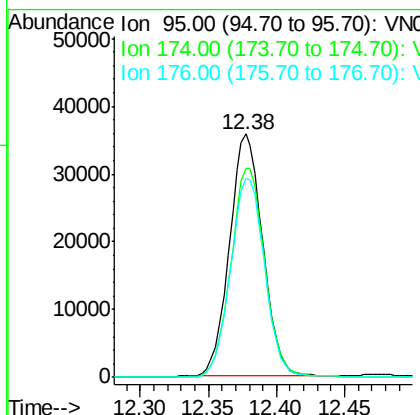
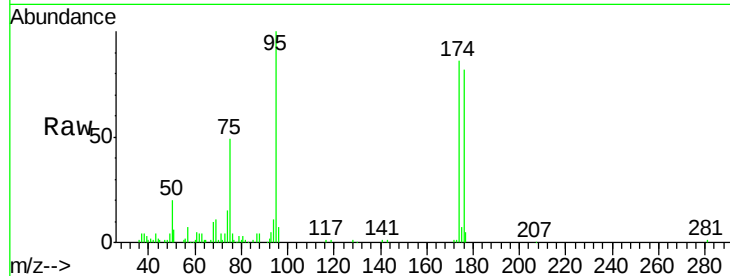
#60
4-Bromofluorobenzene
Concen: 26.195 ug/l
RT: 12.38 min Scan# 3298
Delta R.T. -0.00 min
Lab File: VN063039.D
Acq: 20 Aug 2020 16:24

Instrument :
MSVOA_N
ClientSampleId :
200819016-02-VOA

Tot Ion	Ratio	Lower	Upper
95	100		
174	88.7	70.1	105.1
176	84.3	66.8	100.2

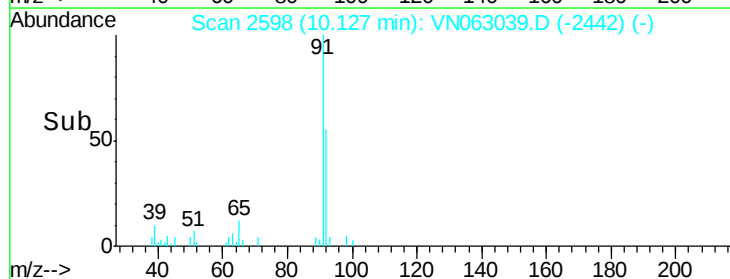
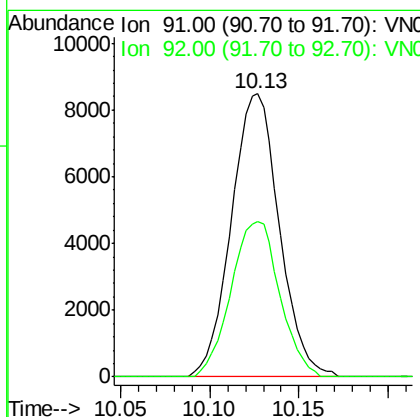
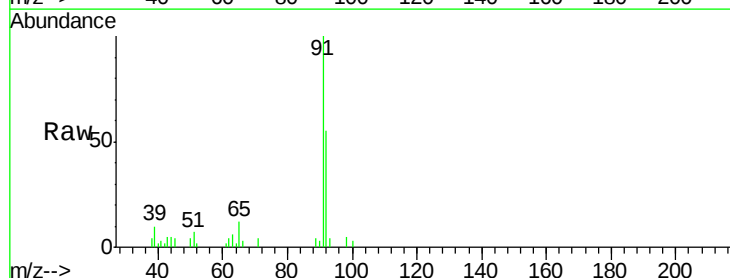
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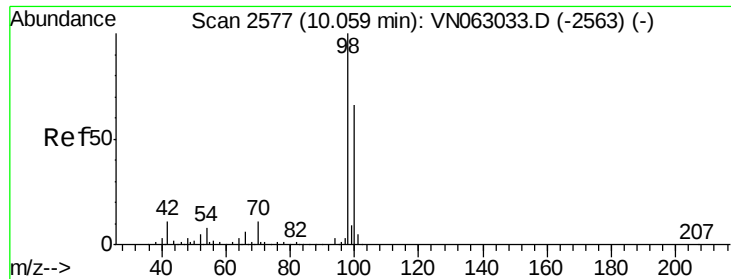
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#62
Toluene
Concen: 2.062 ug/l
RT: 10.13 min Scan# 2598
Delta R.T. 0.00 min
Lab File: VN063039.D
Acq: 20 Aug 2020 16:24

Tgt Ion	Ratio	Lower	Upper
91	100		
92	55.6	45.5	68.3





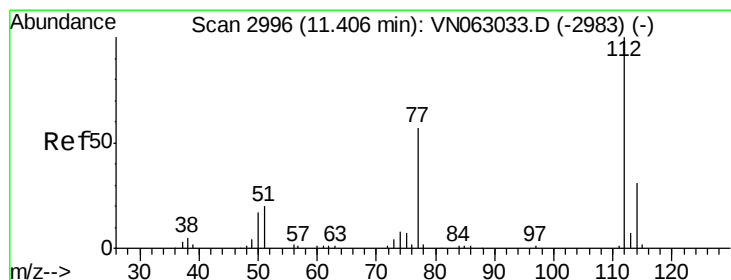
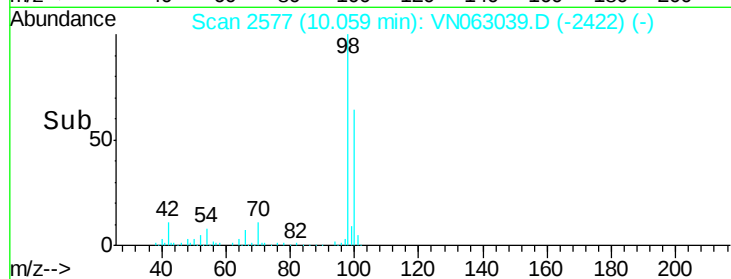
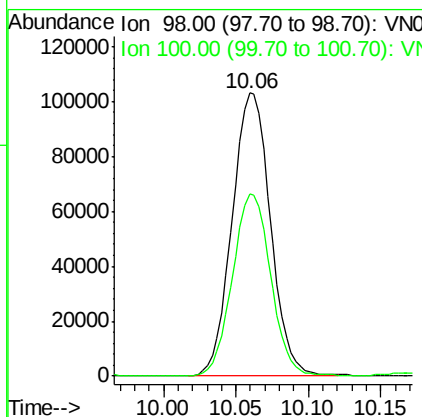
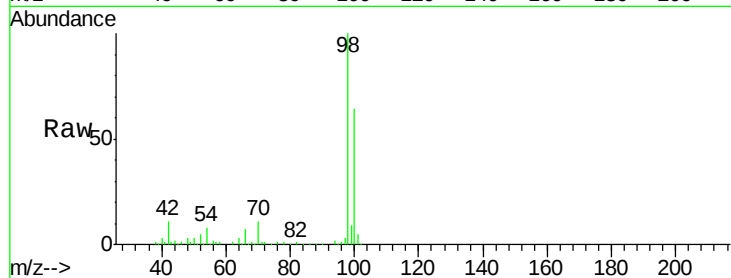
#63
Toluene-d8
Concen: 28.373 ug/l
RT: 10.06 min Scan# 2577
Delta R.T. -0.00 min
Lab File: VN063039.D
Acq: 20 Aug 2020 16:24

Instrument :
MSVOA_N
ClientSampleId :
200819016-02-VOA

Tot Ion: 98 Resp: 189844
Ion Ratio Lower Upper
98 100
100 64.4 51.4 77.2

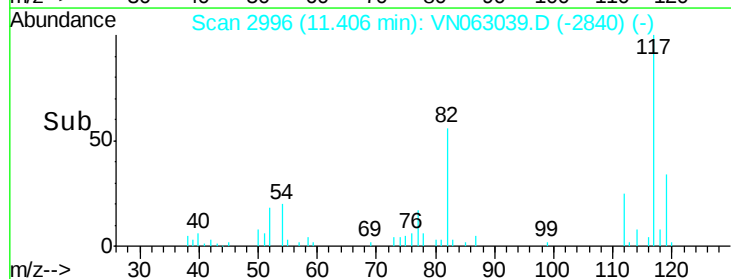
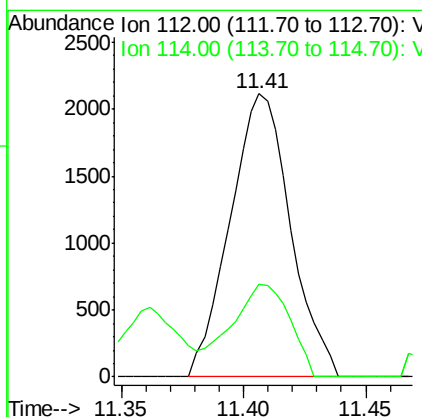
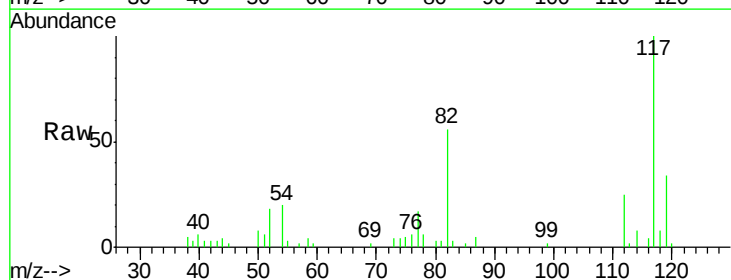
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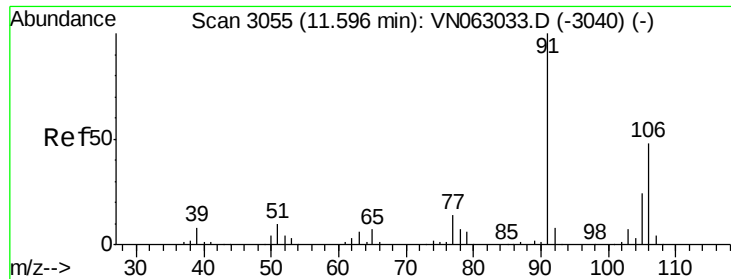
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#64
Chlorobenzene
Concen: 0.759 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. -0.00 min
Lab File: VN063039.D
Acq: 20 Aug 2020 16:24

Tgt Ion: 112 Resp: 3629
Ion Ratio Lower Upper
112 100
114 32.8 25.1 37.7





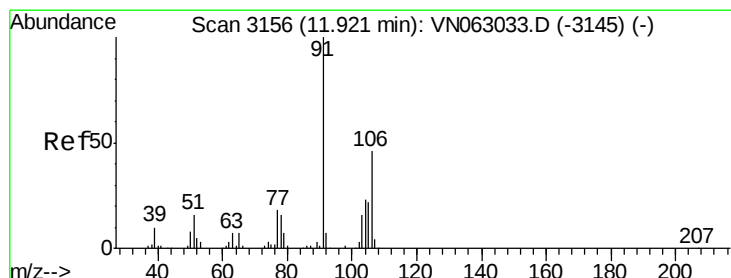
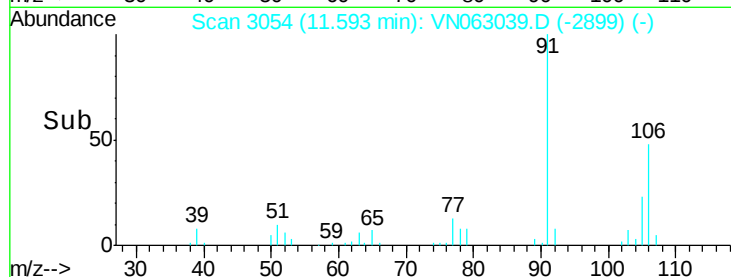
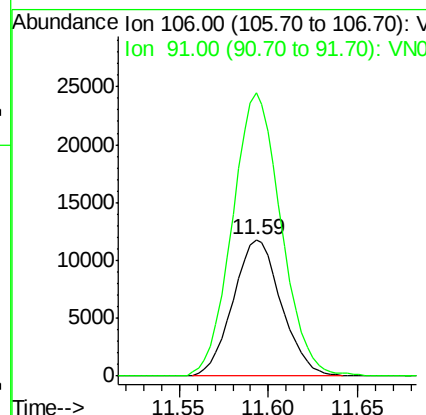
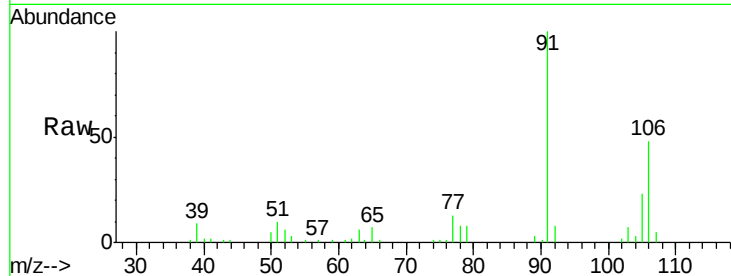
#67
m/p-Xvlenes
Concen: 7.069 ug/l
RT: 11.59 min Scan# 3054
Delta R.T. -0.00 min
Lab File: VN063039.D
Acq: 20 Aug 2020 16:24

Instrument :
MSVOA_N
ClientSampleId :
200819016-02-VOA

Tot Ion:106 Resp: 22307
Ion Ratio Lower Upper
106 100
91 208.9 164.9 247.3

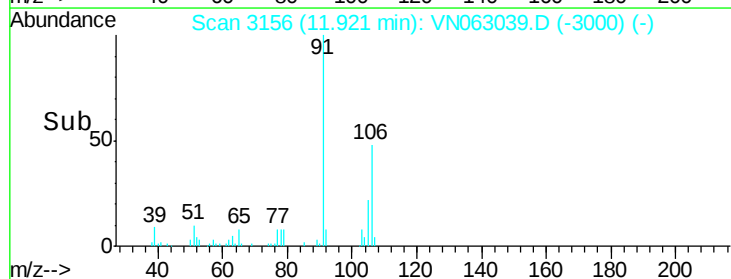
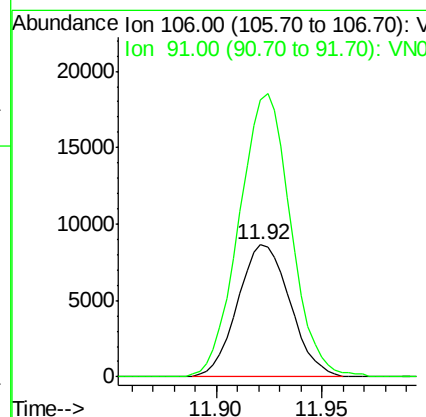
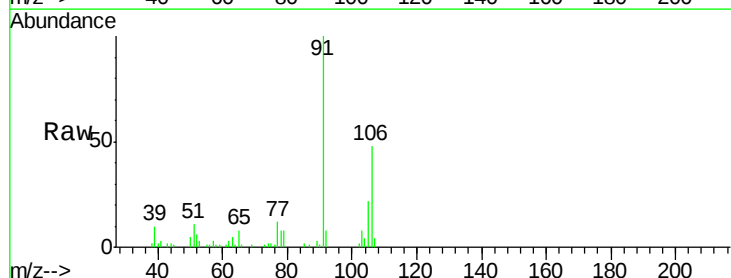
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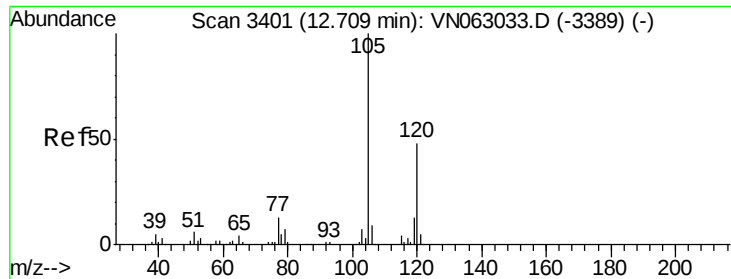
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#68
o-Xylene
Concen: 4.936 ug/l
RT: 11.92 min Scan# 3156
Delta R.T. -0.00 min
Lab File: VN063039.D
Acq: 20 Aug 2020 16:24

Tgt Ion:106 Resp: 14962
Ion Ratio Lower Upper
106 100
91 211.3 108.0 324.0





#76

1,3,5-Trimethylbenzene

Concen: 0.663 ug/l

RT: 12.71 min Scan# 3401

Delta R.T. -0.00 min

Lab File: VN063039.D

Acq: 20 Aug 2020 16:24

Instrument :

MSVOA_N

ClientSampleId :

200819016-02-VOA

Tot Ion:105 Resp: 4668

Ion Ratio Lower Upper

105 100

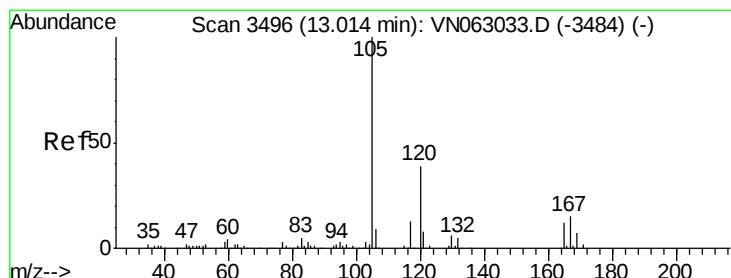
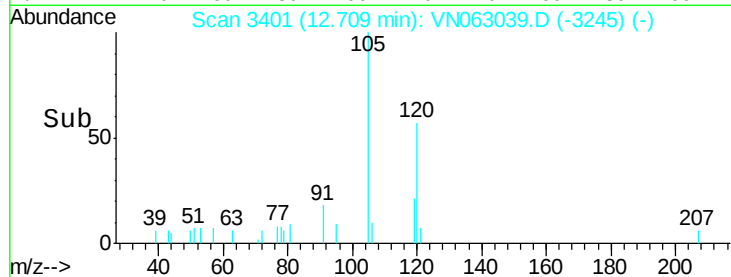
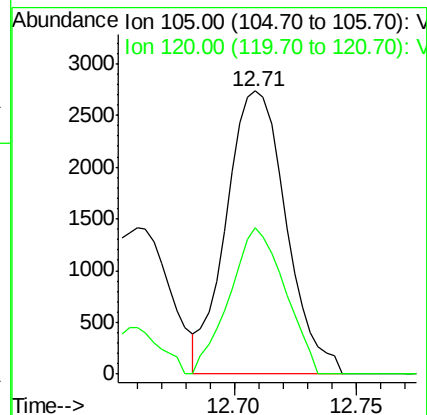
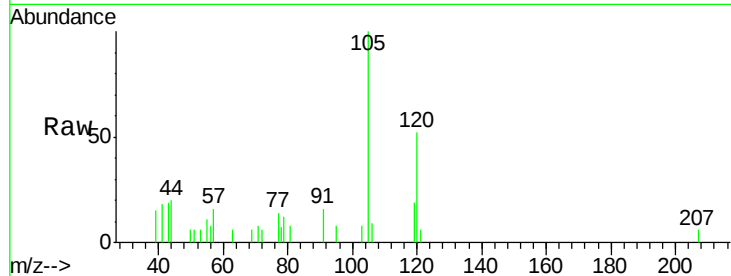
120 47.6 0.0 95.0

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#80

1,2,4-Trimethylbenzene

Concen: 2.137 ug/l

RT: 13.02 min Scan# 3497

Delta R.T. 0.00 min

Lab File: VN063039.D

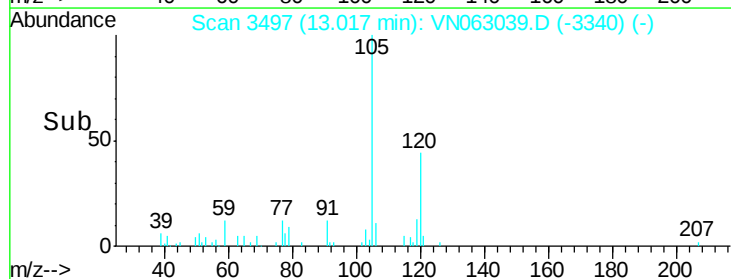
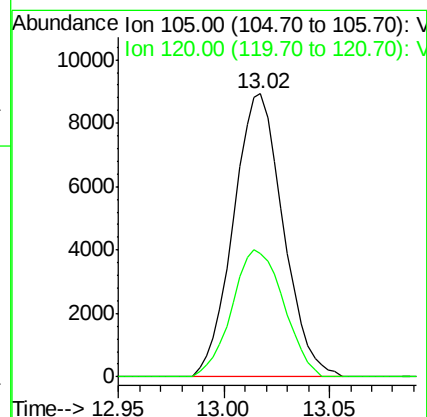
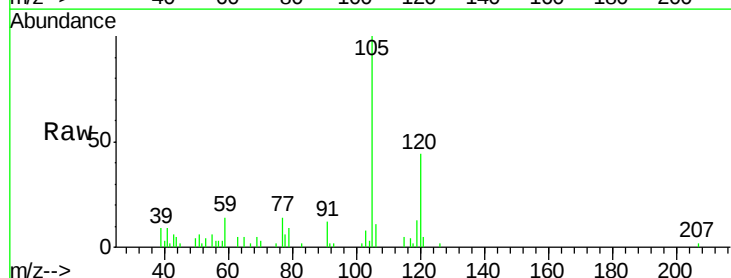
Acq: 20 Aug 2020 16:24

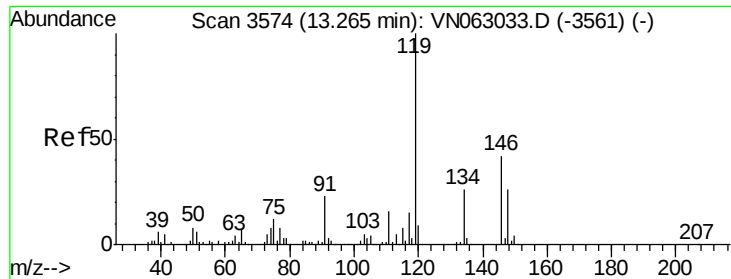
Tgt Ion:105 Resp: 14639

Ion Ratio Lower Upper

105 100

120 46.6 0.0 90.4





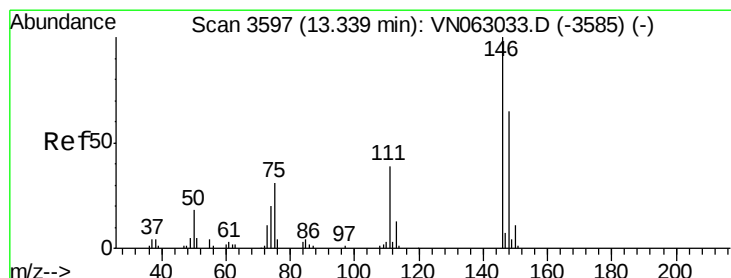
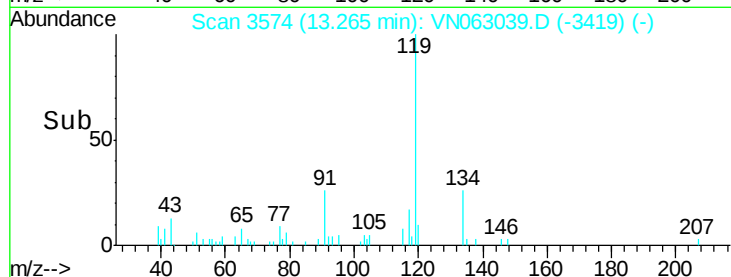
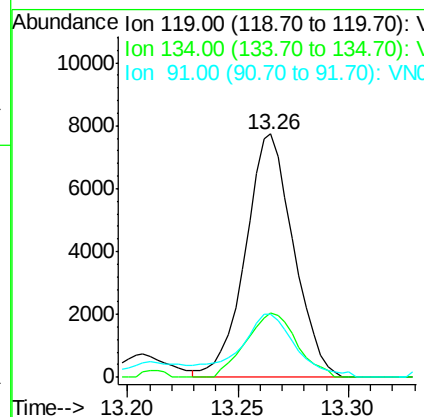
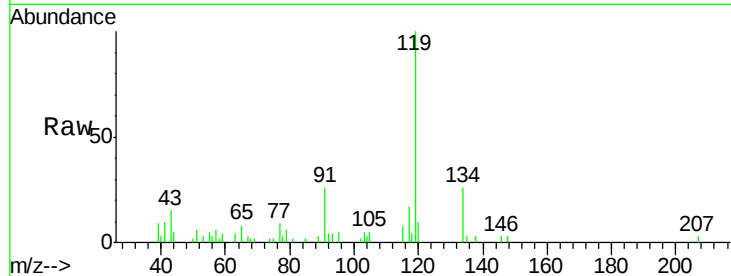
#82
 p-Isopropyltoluene
 Concen: 1.622 ug/l
 RT: 13.26 min Scan# 3574
 Delta R.T. -0.00 min
 Lab File: VN063039.D
 Acq: 20 Aug 2020 16:24

Instrument :
 MSVOA_N
 ClientSampleId :
 200819016-02-VOA

Tot Ion	Ratio	Resp	Lower	Upper
119	100	11728		
134	27.9	0.0	52.2	
91	23.6	0.0	46.2	

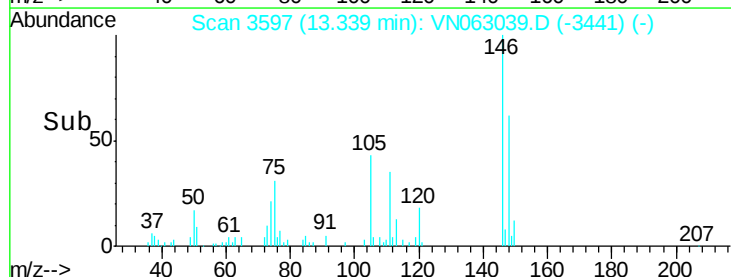
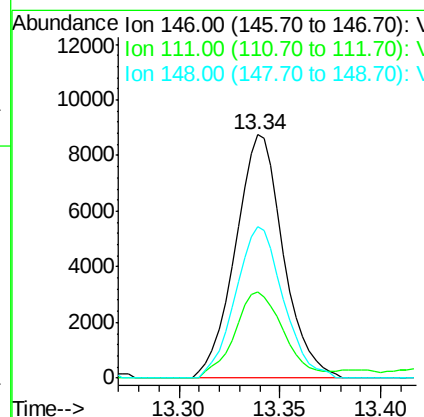
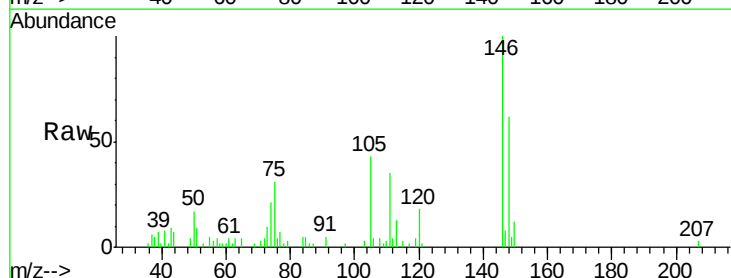
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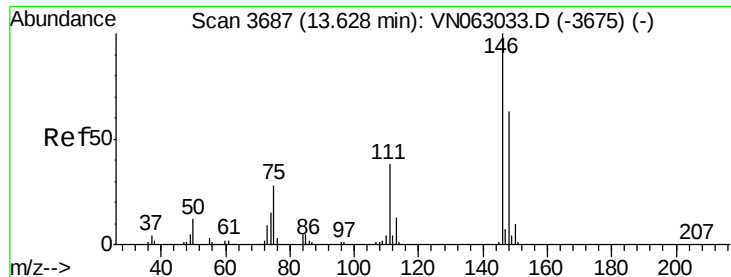
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#84
 1,4-Dichlorobenzene
 Concen: 3.831 ug/l
 RT: 13.34 min Scan# 3597
 Delta R.T. -0.00 min
 Lab File: VN063039.D
 Acq: 20 Aug 2020 16:24

Tgt Ion	Ratio	Resp	Lower	Upper
146	100	14538		
111	36.6	18.6	55.8	
148	62.0	31.6	94.8	





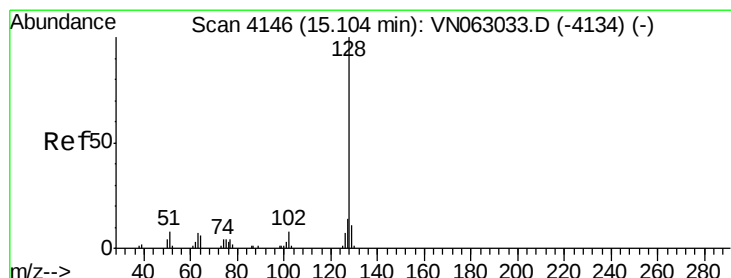
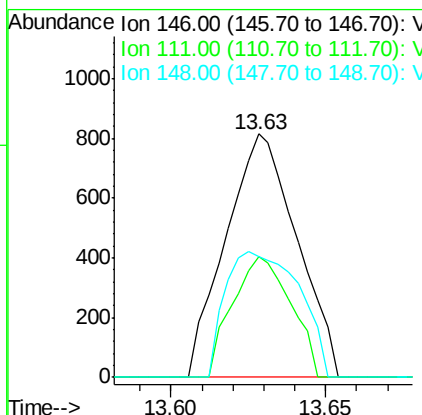
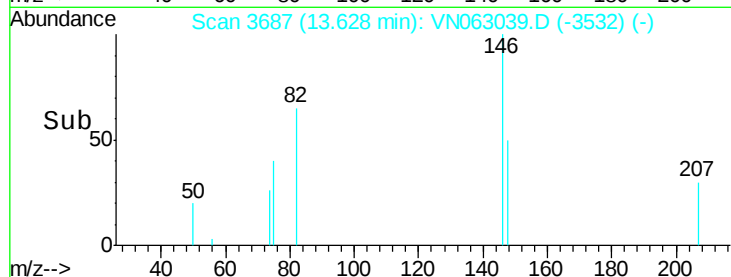
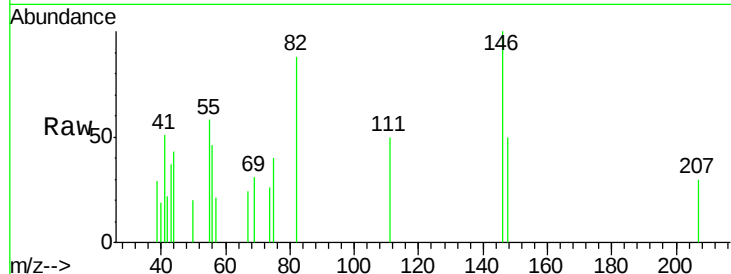
#87
 1,2-Dichlorobenzene
 Concen: 0.350 ug/l
 RT: 13.63 min Scan# 3687
 Delta R.T. -0.00 min
 Lab File: VN063039.D
 Acq: 20 Aug 2020 16:24

Instrument :
 MSVOA_N
 ClientSampleId :
 200819016-02-VOA

Tot Ion:	146	Resp:	1303
Ion Ratio	Lower	Upper	
146	100		
111	40.9	19.1	57.3
148	53.8	31.8	95.4

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#91
 Naphthalene
 Concen: 1.317 ug/l
 RT: 15.11 min Scan# 4147
 Delta R.T. 0.00 min
 Lab File: VN063039.D
 Acq: 20 Aug 2020 16:24

Tgt Ion:	128	Resp:	5341
Ion Ratio	Lower	Upper	
128	100		
127	13.2	11.1	16.7
129	9.4	8.4	12.6

