

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL031020\
 Data File : VL034874.D
 Acq On : 10 Mar 2020 20:19
 Operator : SY/AP
 Sample : L1861-04
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 NS-2

Manual Integrations
 APPROVED

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 3/11/2020 3:17:40 PM

Quant Time: Mar 11 14:57:05 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL030920AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Mar 0
 QLast Update : Mon Mar 09 16:42:53 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.66	49	902745	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.18	114	2005157	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.11	117	2042239	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.45	95	1627756	10.22	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	102.20%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.01	85	71487	0.578	ppbv	95
3) Chlorodifluoromethane	2.95	51	32033	0.318	ppbv	95
4) Chloromethane	3.11	50	39830	0.699	ppbv	94
9) Propene	2.97	41	398143	8.269	ppbv	95
10) Heptane	8.13	43	29443	0.248	ppbv #	80
11) Trichlorofluoromethane	3.93	101	30145	0.229	ppbv	100
13) Ethanol	3.59	45	2725552	186.201	ppbv	94
15) Acetone	3.82	43	1033490	8.833	ppbv #	72
19) Isopropyl Alcohol	3.96	45	161811	2.190	ppbv #	1
20) Methylene Chloride	4.32	84	57032	1.542	ppbv	94
26) Hexane	5.68	57	69080	0.770	ppbv #	50
29) Chloroform	5.74	83	148093	1.081	ppbv	94
34) 2-Butanone	5.24	43	128604	0.965	ppbv	99
36) Benzene	6.90	78	117643	0.658	ppbv	97
38) Trichloroethene	7.85	130	8873m	0.131	ppbv	
44) 2,2,4-Trimethylpentane	7.88	57	75532	0.250	ppbv #	73
50) 4-Methyl-2-Pentanone	8.76	43	83361m	0.435	ppbv	
52) Tetrachloroethene	11.25	164	49586m	0.701	ppbv	
53) Toluene	9.83	91	286321	1.387	ppbv	98
58) Ethyl Benzene	12.74	91	167242	0.605	ppbv	92
59) m/p-Xylene	13.00	91	490135m	2.115	ppbv	
60) o-Xylene	13.72	91	124287	0.549	ppbv	99
72) 4-Ethyltoluene	15.87	105	125226	0.469	ppbv #	97
73) 1,3,5-Trimethylbenzene	16.03	105	123532m	0.494	ppbv	
74) 1,2,4-Trimethylbenzene	16.80	105	409139	1.588	ppbv #	76

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

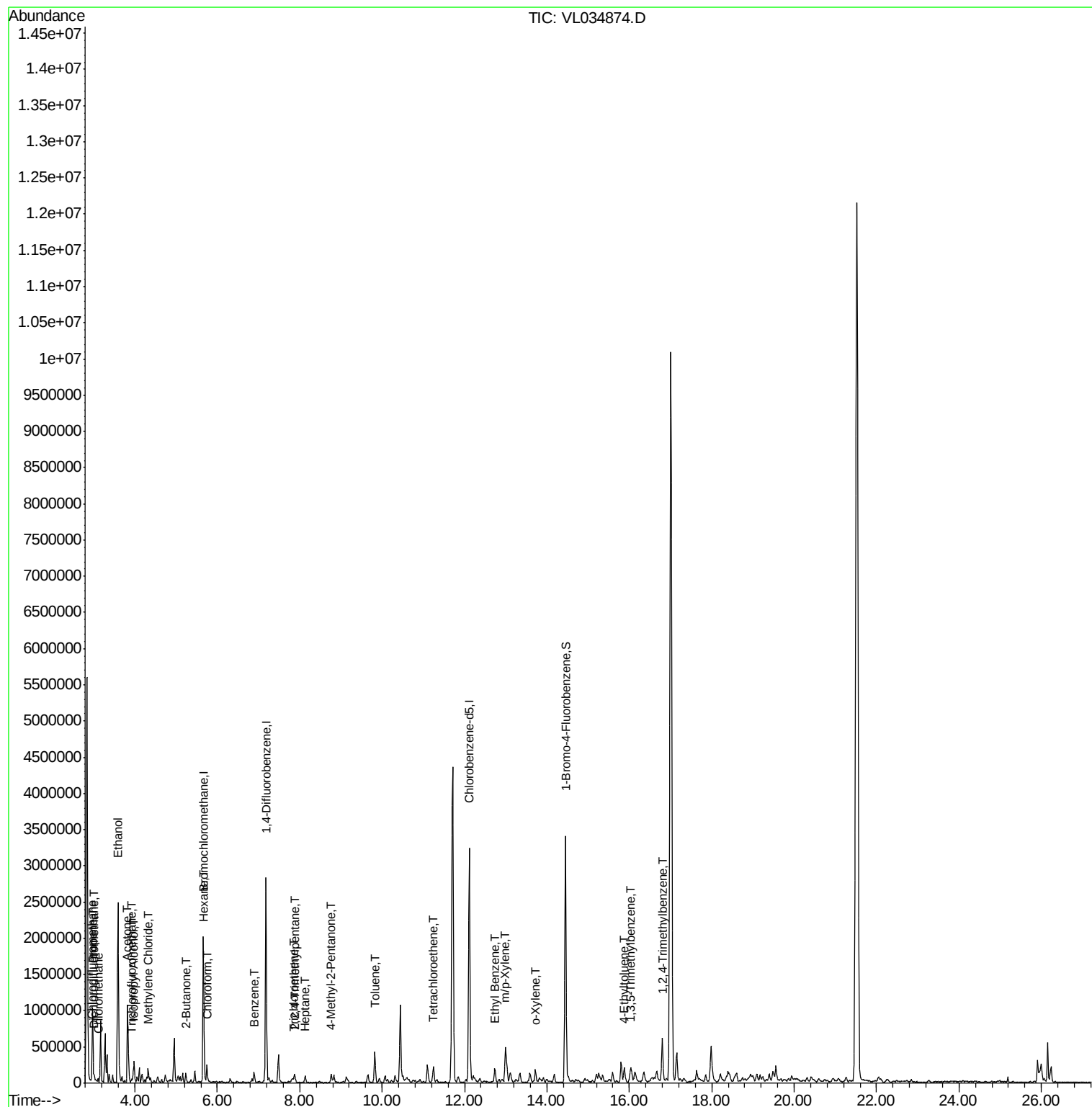
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL031020\
Data File : VL034874.D
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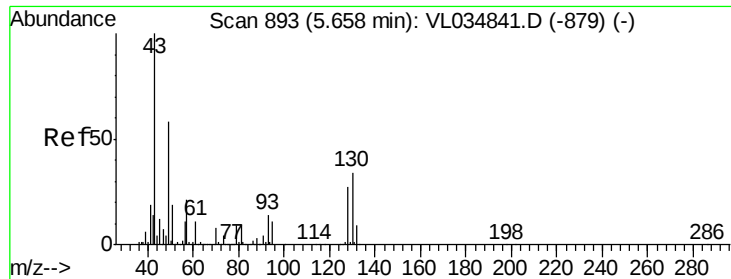
Instrument :
MSVOA_L
ClientSampleId :
NS-2

Manual Integrations
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Quant Time: Mar 11 14:57:05 2020
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL030920AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Mar
QLast Update : Mon Mar 09 16:42:53 2020
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.66 min Scan# 893

Delta R.T. 0.00 min

Lab File: VL034874.D

Acq: 10 Mar 2020 20:19

Instrument :

MSVOA_L

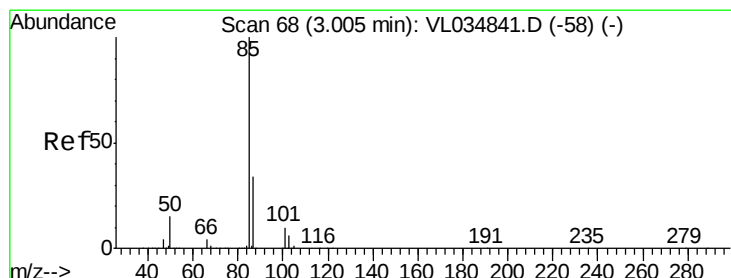
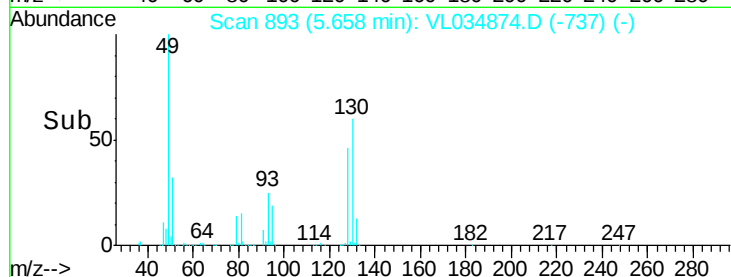
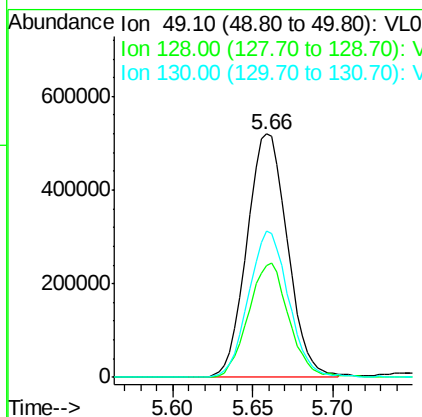
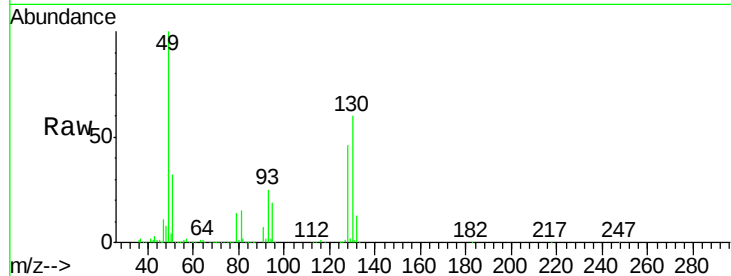
ClientSampled :

NS-2

Tot Ion:	49	Resp:	902745
Ion	Ratio	Lower	Upper
49	100		
128	47.0	23.4	70.3
130	59.7	30.0	90.0

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#2

Dichlorodifluoromethane

Concen: 0.578 ppbv

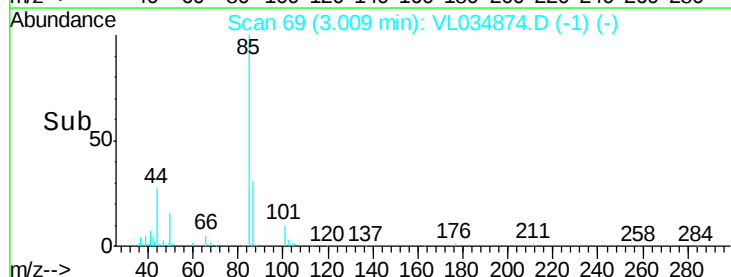
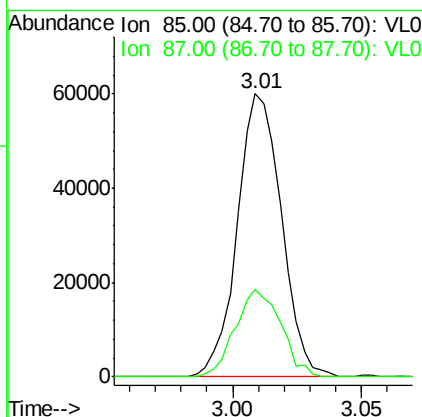
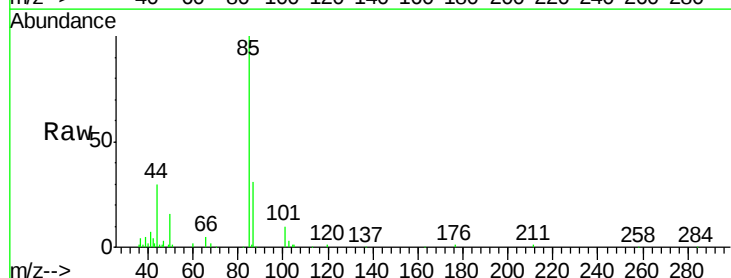
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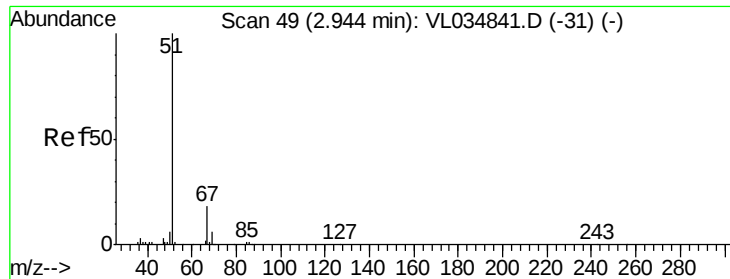
Delta R.T. 0.00 min

Lab File: VL034874.D

Acq: 10 Mar 2020 20:19

Tgt Ion:	85	Resp:	71487
Ion	Ratio	Lower	Upper
85	100		
87	30.7	26.9	40.3





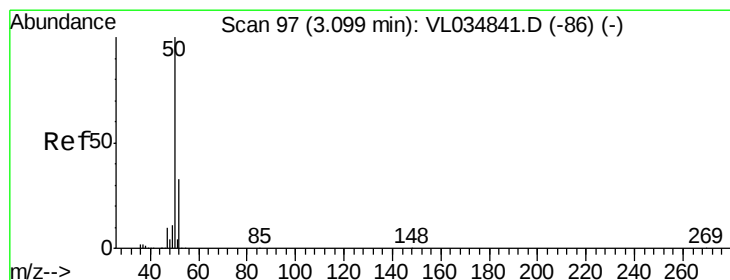
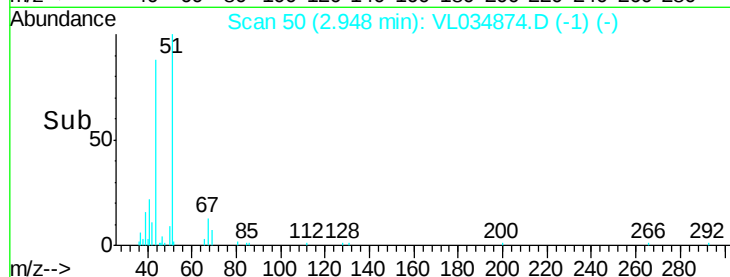
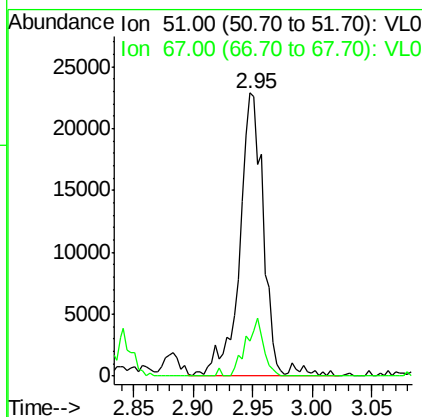
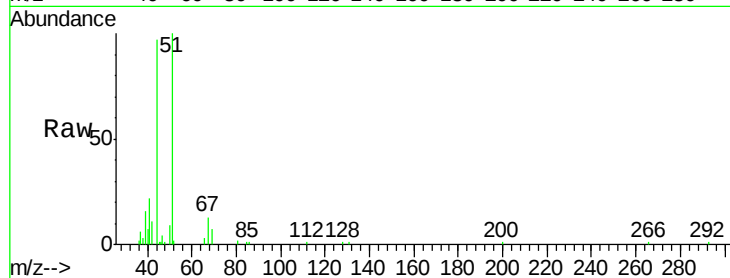
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Chlorodifluoromethane
Concen: 0.318 ppbv
RT: 2.95 min Scan# 50
Delta R.T. 0.00 min
Lab File: VL034874.D
Acq: 10 Mar 2020 20:19

Instrument :
MSVOA_L
ClientSampled :
NS-2

Tot Ion	Ratio	Lower	Upper
51	100		
67	15.5	14.3	21.5

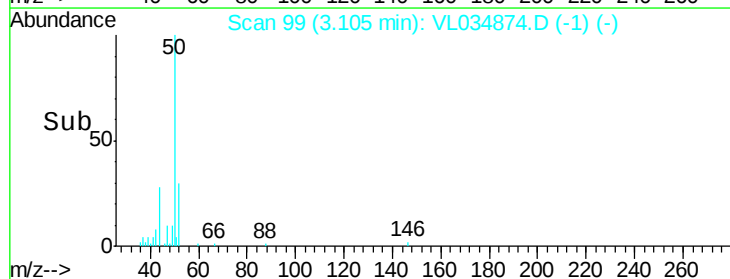
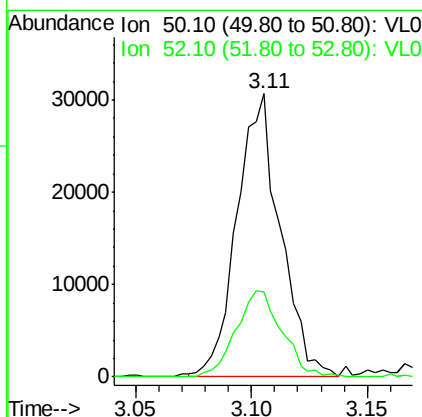
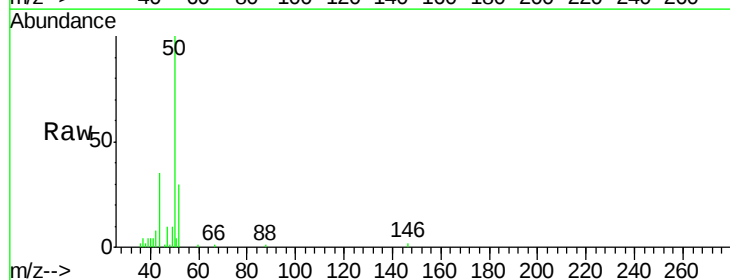
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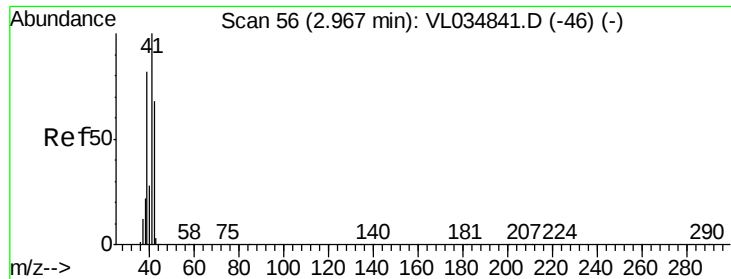
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#4
Chloromethane
Concen: 0.699 ppbv
RT: 3.11 min Scan# 99
Delta R.T. 0.01 min
Lab File: VL034874.D
Acq: 10 Mar 2020 20:19

Tgt Ion	Ratio	Lower	Upper
50	100		
52	29.8	26.8	40.2





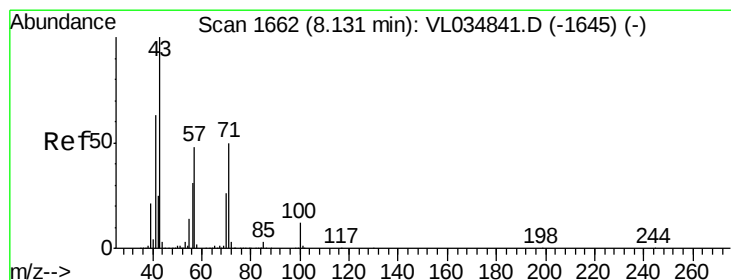
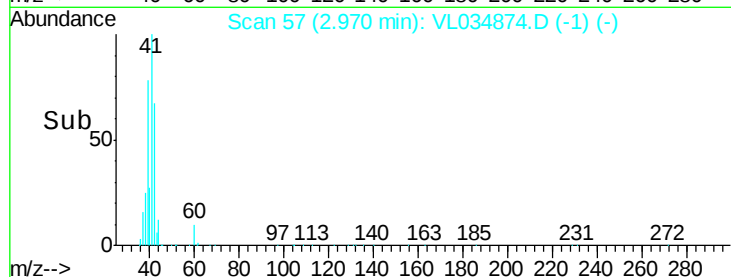
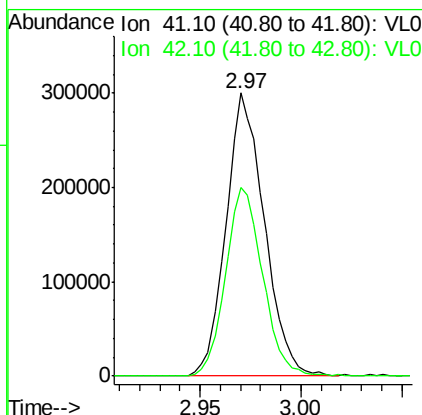
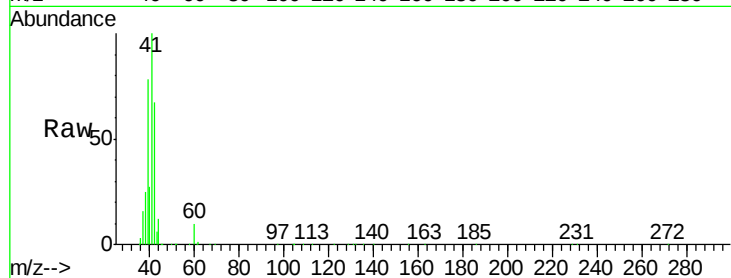
#9
 Propene
 Concen: 8.269 ppbv
 RT: 2.97 min Scan# 57
 Delta R.T. 0.00 min
 Lab File: VL034874.D
 Acq: 10 Mar 2020 20:19

Instrument :
 MSVOA_L
 ClientSampleId :
 NS-2

Tot Ion: 41 Resp: 398143
 Ion Ratio Lower Upper
 41 100
 42 65.1 55.2 82.8

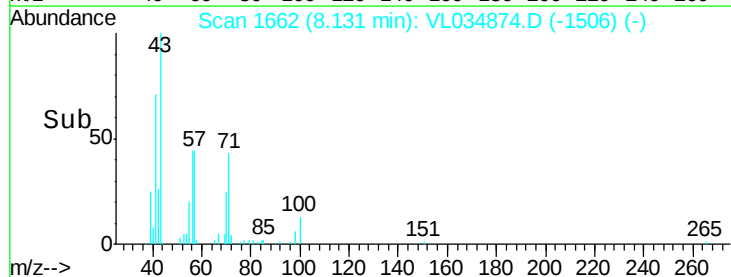
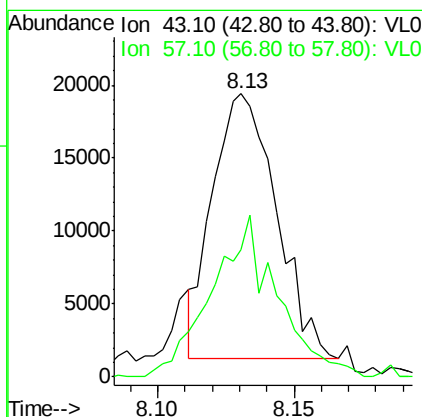
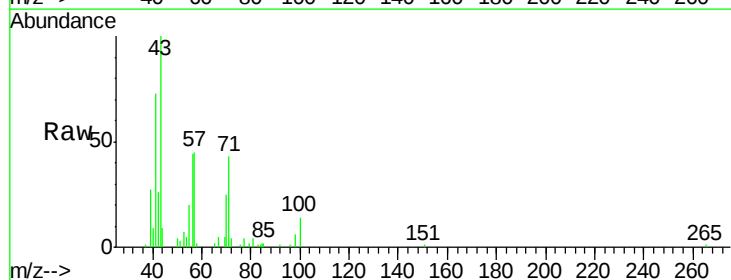
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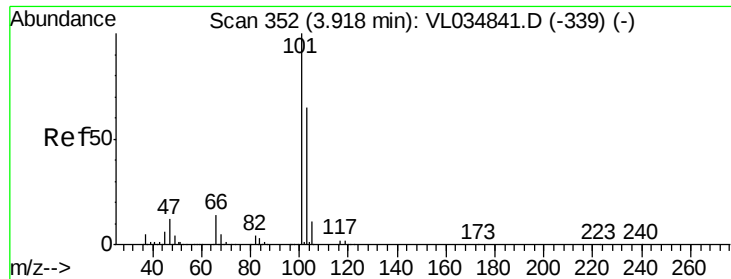
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#10
 Heptane
 Concen: 0.248 ppbv
 RT: 8.13 min Scan# 1662
 Delta R.T. 0.00 min
 Lab File: VL034874.D
 Acq: 10 Mar 2020 20:19

Tgt Ion: 43 Resp: 29443
 Ion Ratio Lower Upper
 43 100
 57 63.5 39.7 59.5#





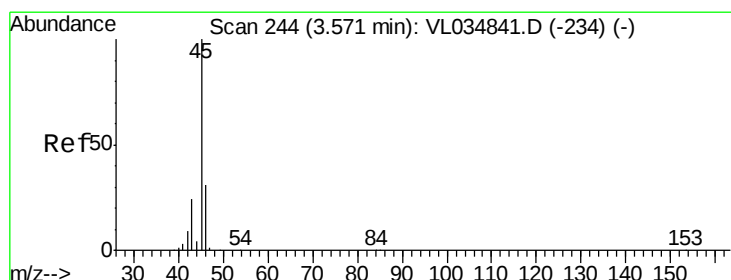
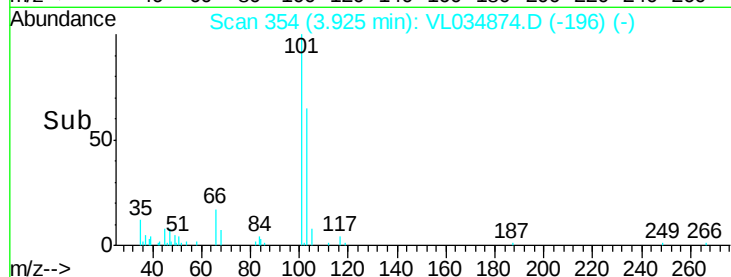
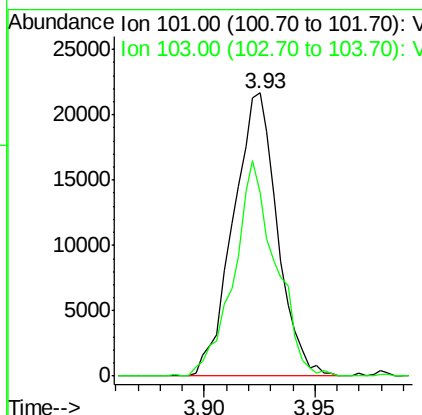
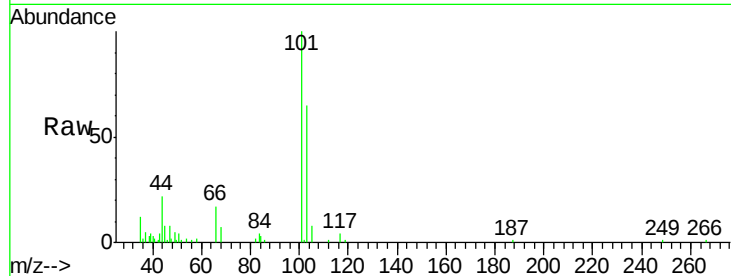
#11
 Trichlorofluoromethane
 Concen: 0.229 ppbv
 RT: 3.93 min Scan# 354
 Delta R.T. 0.01 min
 Lab File: VL034874.D
 Acq: 10 Mar 2020 20:19

Instrument :
 MSVOA_L
 ClientSampleId :
 NS-2

Tot Ion	Ratio	Lower	Upper
101	100		
103	64.7	51.8	77.8

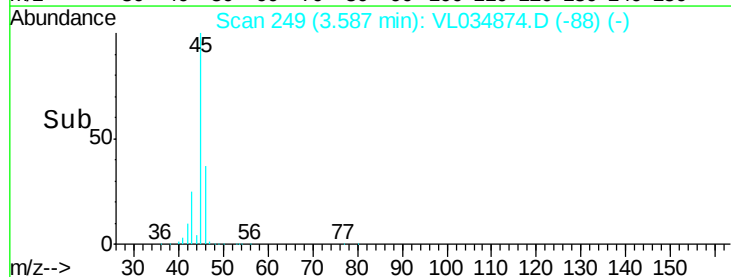
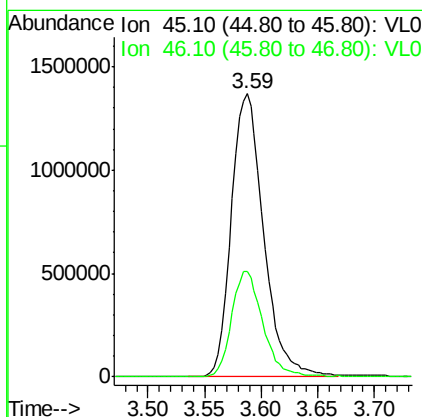
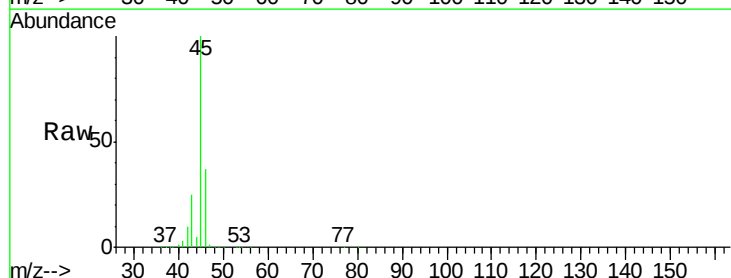
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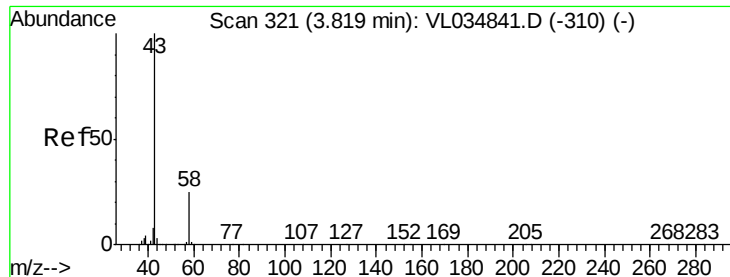
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#13
 Ethanol
 Concen: 186.201 ppbv
 RT: 3.59 min Scan# 249
 Delta R.T. 0.02 min
 Lab File: VL034874.D
 Acq: 10 Mar 2020 20:19

Tgt Ion	Ratio	Lower	Upper
45	100		
46	36.4	16.0	64.0





#15

Acetone

Concen: 8.833 ppbv

RT: 3.82 min Scan# 321

Delta R.T. 0.00 min

Lab File: VL034874.D

Acq: 10 Mar 2020 20:19

Instrument :

MSVOA_L

ClientSampled :

NS-2

Tot Ion: 43 Resp: 1033490

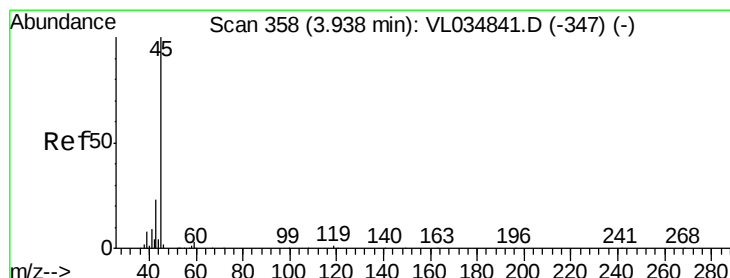
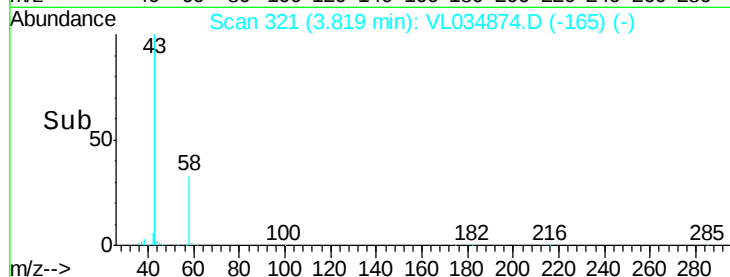
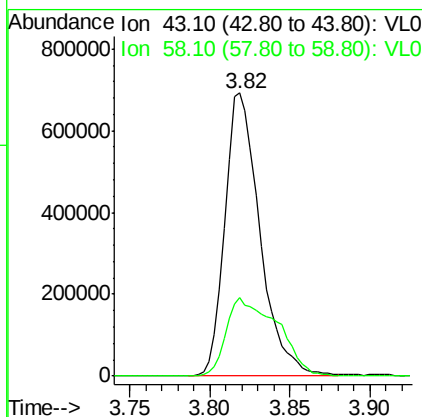
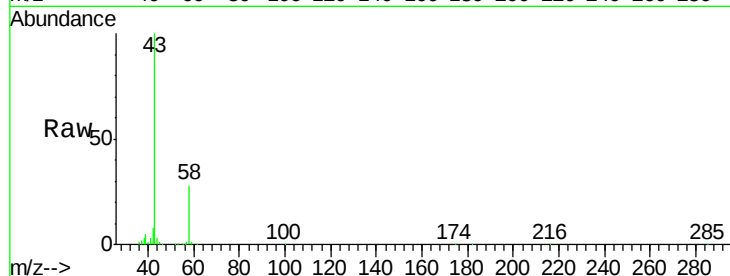
Ion Ratio Lower Upper

43 100

58 40.8 21.0 31.6#

Manual Integrations
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#19

Isopropyl Alcohol

Concen: 2.190 ppbv

RT: 3.96 min Scan# 365

Delta R.T. 0.02 min

Lab File: VL034874.D

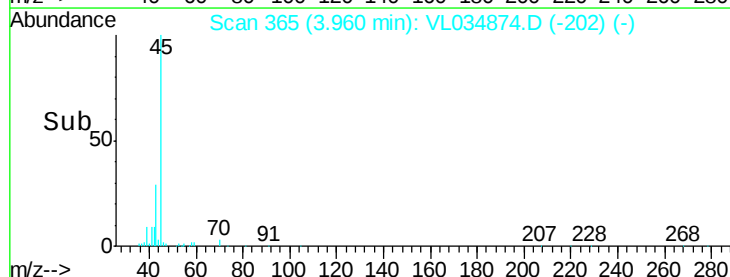
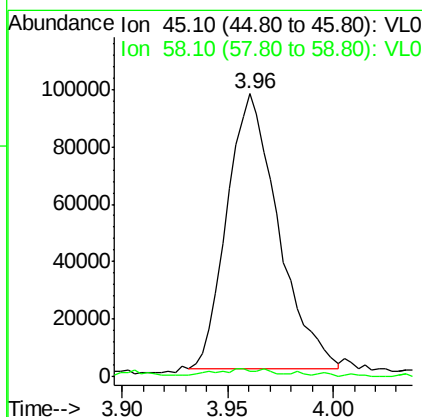
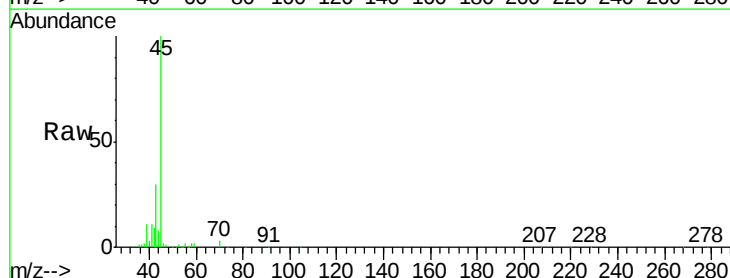
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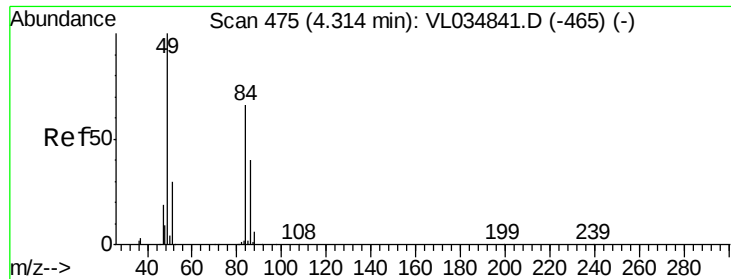
Tgt Ion: 45 Resp: 161811

Ion Ratio Lower Upper

45 100

58 261.8 30.5 45.7#





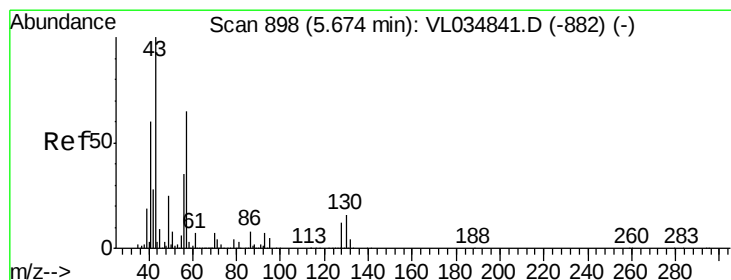
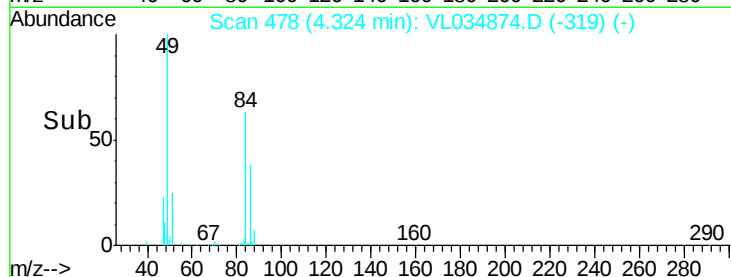
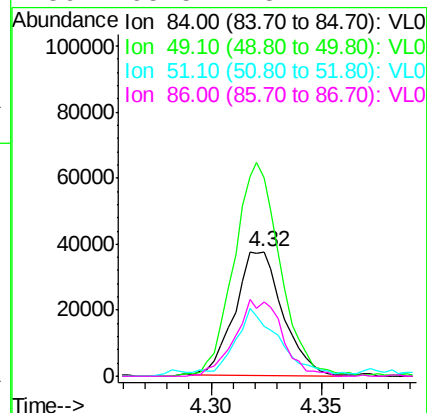
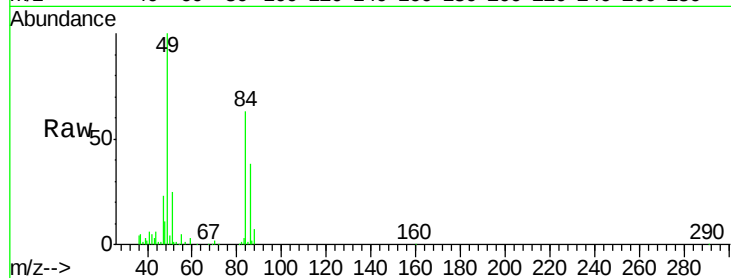
#20
Methvlene Chloride
Concen: 1.542 ppbv
RT: 4.32 min Scan# 478
Delta R.T. 0.01 min
Lab File: VL034874.D
Acq: 10 Mar 2020 20:19

Instrument :
MSVOA_L
ClientSampled :
NS-2

Tot Ion	Ion	Ratio	Lower	Upper
84	100			
49	157.7	121.5	182.3	
51	39.1	36.6	55.0	
86	63.5	48.2	72.2	

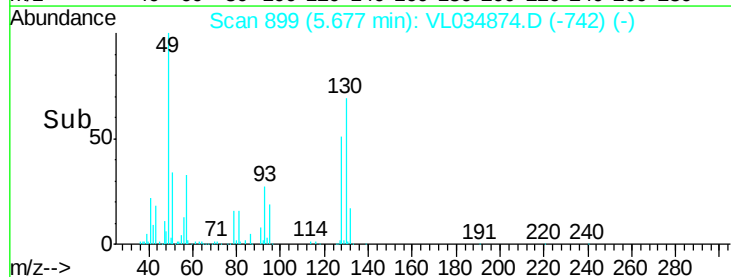
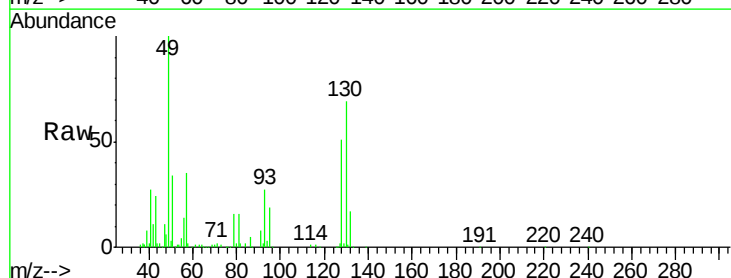
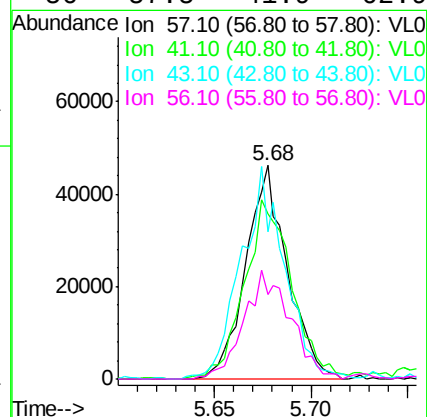
Manual Integrations
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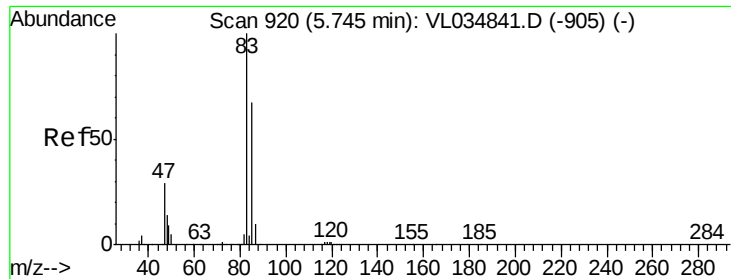
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#26
Hexane
Concen: 0.770 ppbv
RT: 5.68 min Scan# 899
Delta R.T. 0.00 min
Lab File: VL034874.D
Acq: 10 Mar 2020 20:19

Tgt Ion	Ion	Ratio	Lower	Upper
57	100			
41	97.9	72.6	109.0	
43	104.0	183.8	275.6	
56	57.5	41.9	62.9	





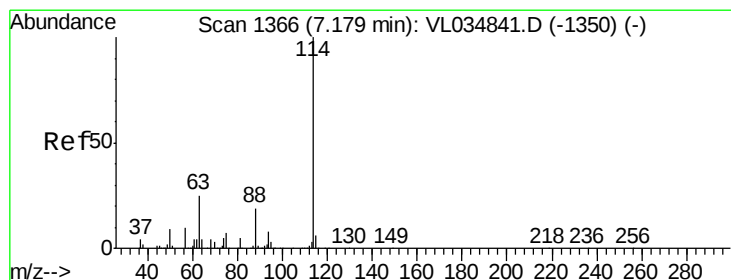
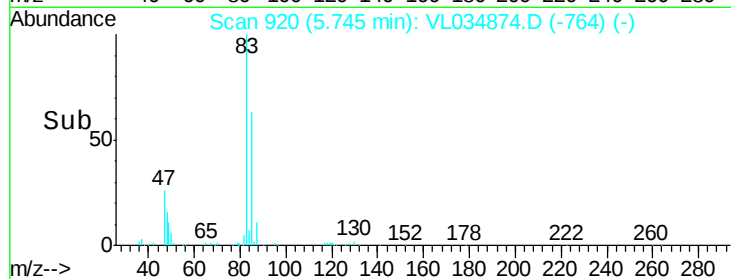
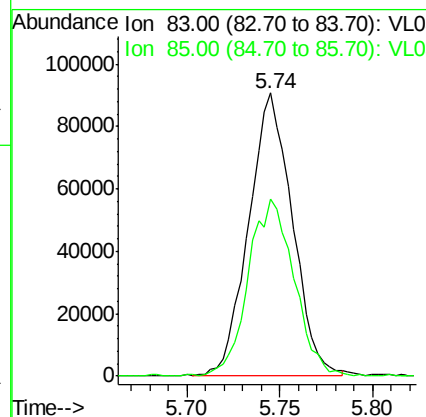
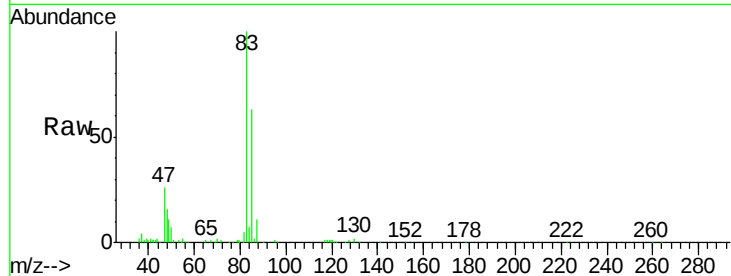
#29
Chloroform
Concen: 1.081 ppbv
RT: 5.74 min Scan# 920
Delta R.T. 0.00 min
Lab File: VL034874.D
Acq: 10 Mar 2020 20:19

Instrument :
MSVOA_L
ClientSampleId :
NS-2

Tot Ion	83	Resp	148093
Ion Ratio	100	Lower	Upper
83	100		
85	62.4	53.8	80.6

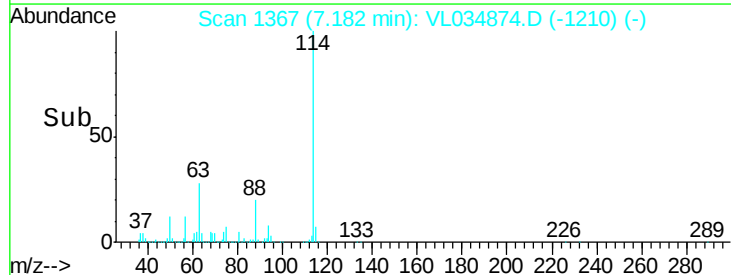
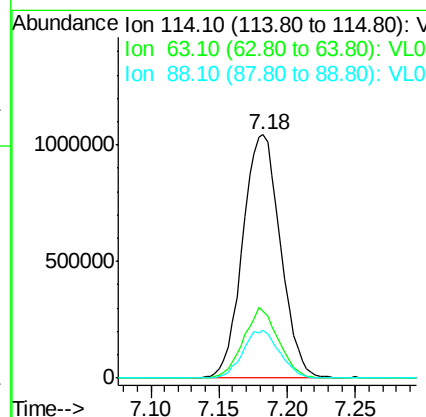
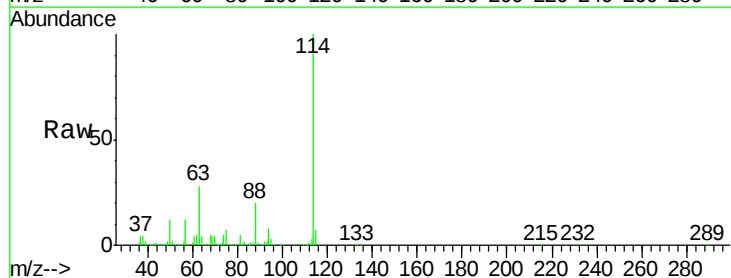
Manual Integrations
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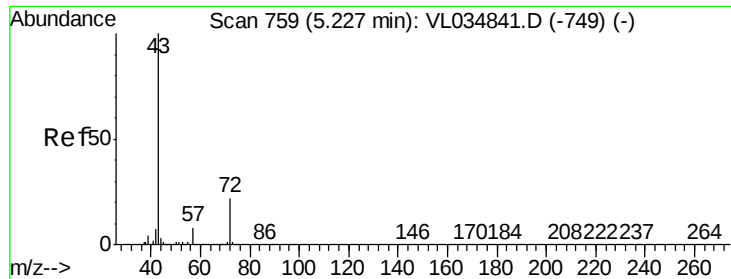
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#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.18 min Scan# 1367
Delta R.T. 0.00 min
Lab File: VL034874.D
Acq: 10 Mar 2020 20:19

Tgt Ion	114	Resp	2005157
Ion Ratio	100	Lower	Upper
114	100		
63	26.7	20.6	31.0
88	19.1	15.0	22.6





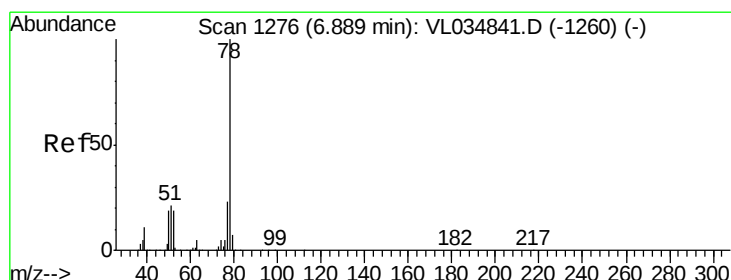
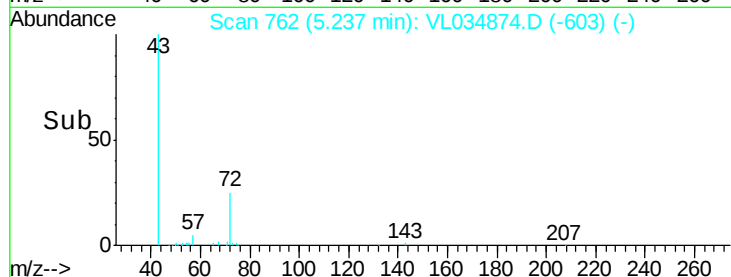
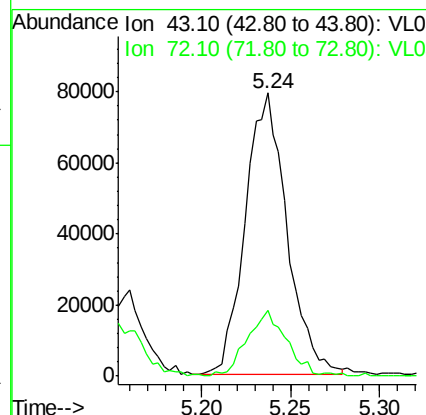
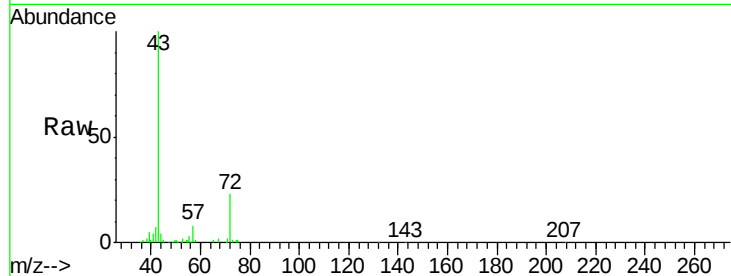
#34
2-Butanone
Concen: 0.965 ppbv
RT: 5.24 min Scan# 762
Delta R.T. 0.01 min
Lab File: VL034874.D
Acq: 10 Mar 2020 20:19

Instrument :
MSVOA_L
ClientSampleId :
NS-2

Tot Ion: 43 Resp: 128604
Ion Ratio Lower Upper
43 100
72 22.6 17.6 26.4

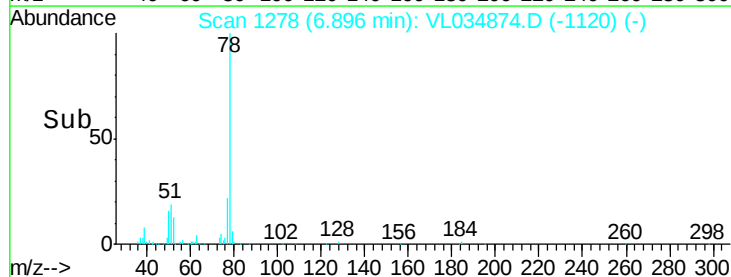
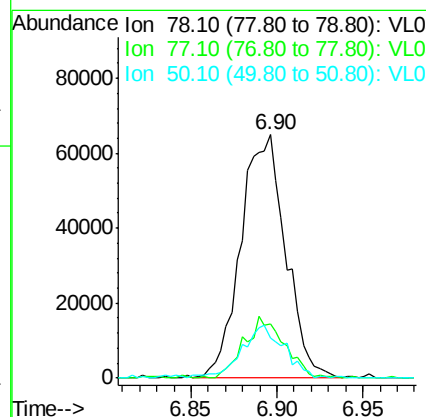
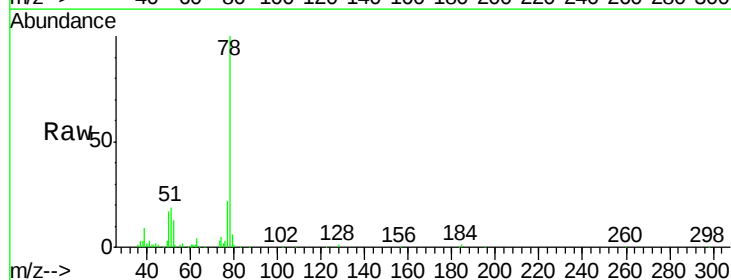
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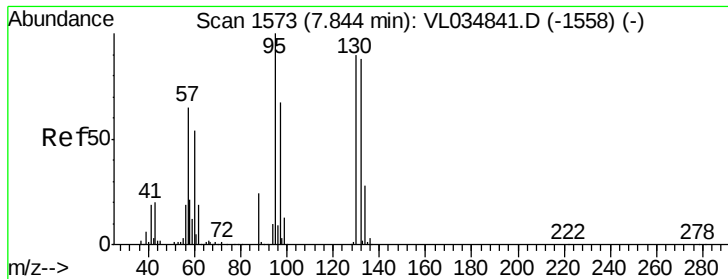
MMDadoda
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#36
Benzene
Concen: 0.658 ppbv
RT: 6.90 min Scan# 1278
Delta R.T. 0.01 min
Lab File: VL034874.D
Acq: 10 Mar 2020 20:19

Tgt Ion: 78 Resp: 117643
Ion Ratio Lower Upper
78 100
77 22.5 18.2 27.2
50 16.2 15.2 22.8





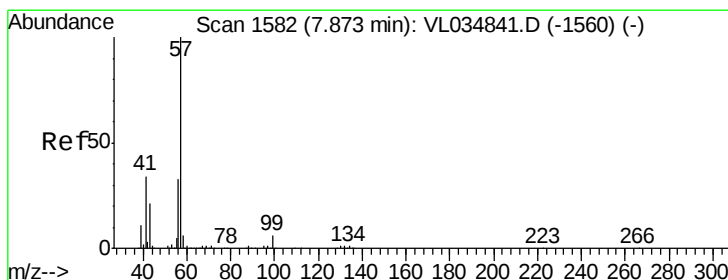
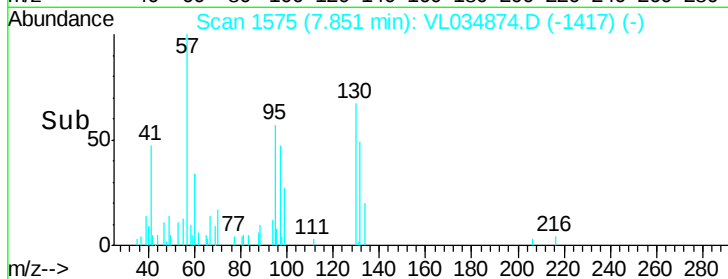
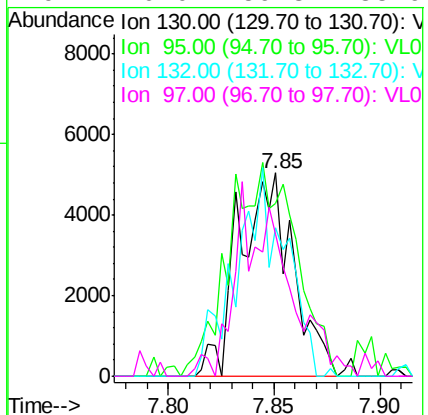
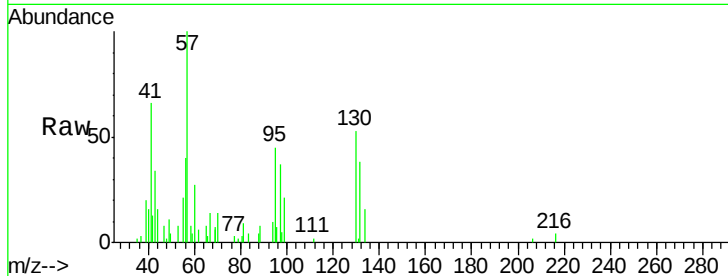
#38
 Trichloroethene
 Concen: 0.131 ppbv m
 RT: 7.85 min Scan# 1575
 Delta R.T. 0.01 min
 Lab File: VL034874.D
 Acq: 10 Mar 2020 20:19

Instrument :
 MSVOA_L
 ClientSampleId :
 NS-2

Tot Ion	Ratio	Lower	Upper
130	100		
95	85.3	88.5	132.7#
132	73.1	78.0	117.0#
97	70.0	59.3	88.9

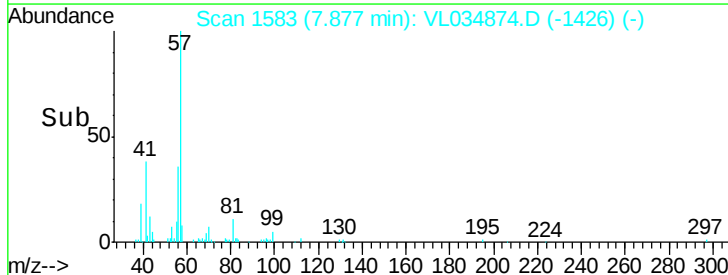
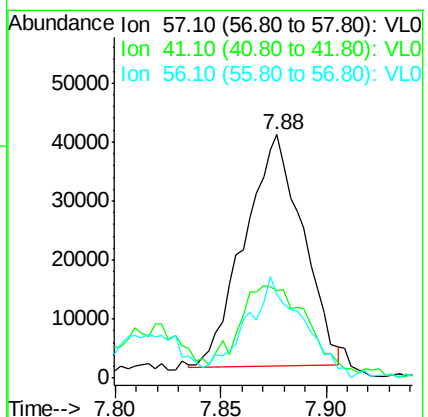
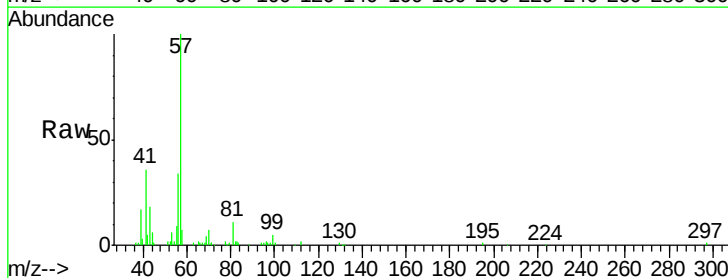
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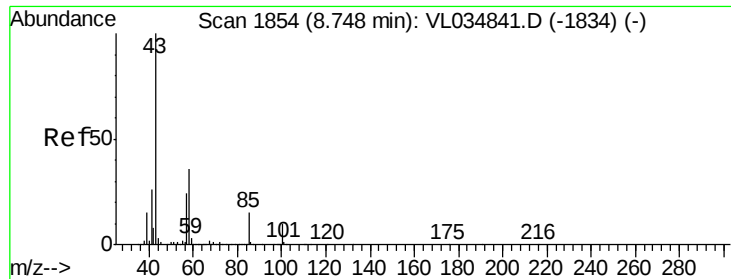
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#44
 2,2,4-Trimethylpentane
 Concen: 0.250 ppbv
 RT: 7.88 min Scan# 1583
 Delta R.T. 0.00 min
 Lab File: VL034874.D
 Acq: 10 Mar 2020 20:19

Tgt Ion	Ratio	Lower	Upper
57	100		
41	49.5	26.2	39.4#
56	44.2	25.0	37.4#





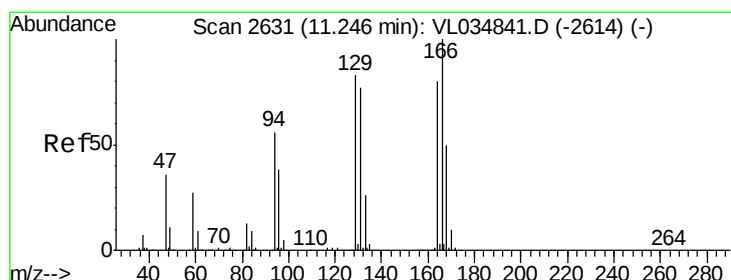
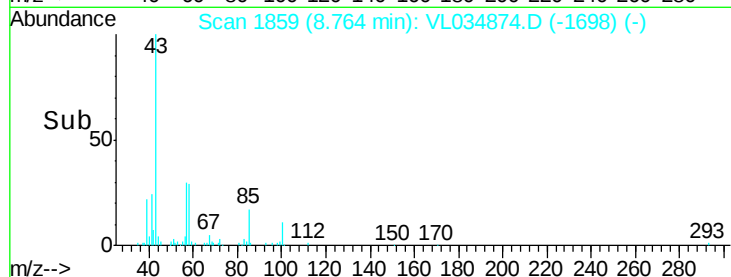
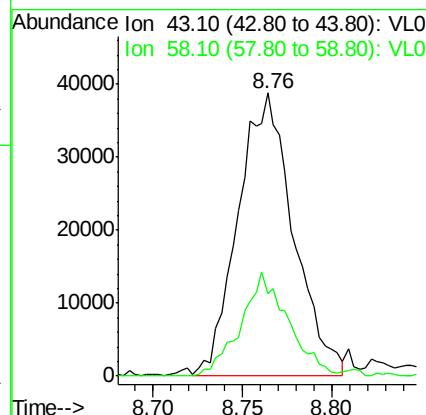
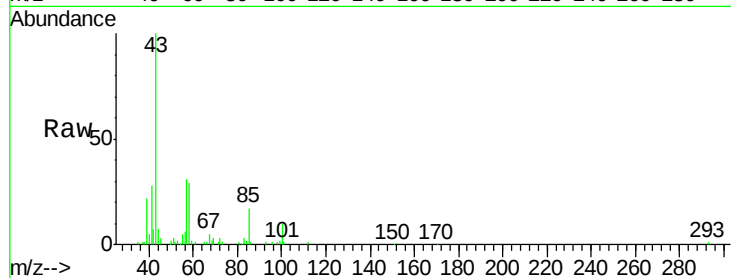
#50
4-Methyl-2-Pentanone
Concen: 0.435 ppbv m
RT: 8.76 min Scan# 1859
Delta R.T. 0.02 min
Lab File: VL034874.D
Acq: 10 Mar 2020 20:19

Instrument :
MSVOA_L
ClientSampleId :
NS-2

Tot Ion	Ratio	Lower	Upper
43	100		
58	0.0	28.6	42.8#

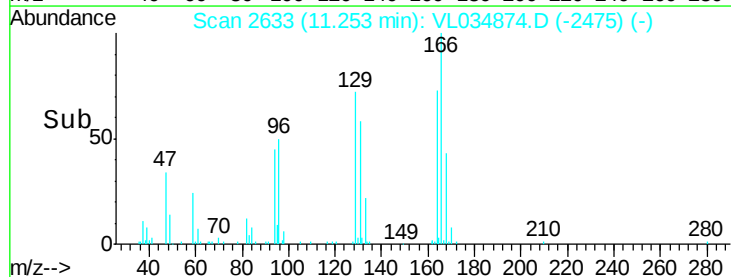
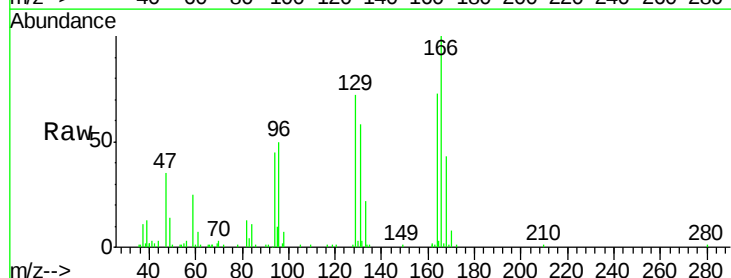
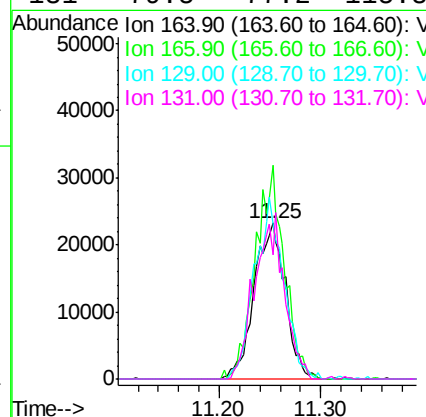
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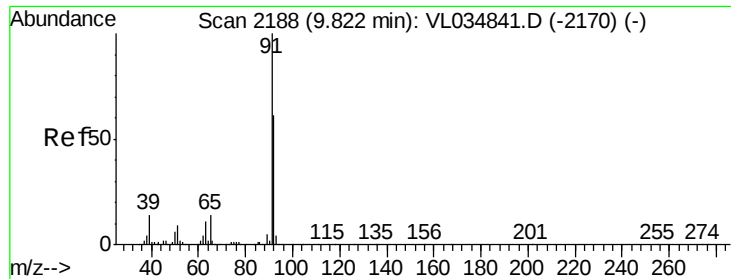
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#52
Tetrachloroethene
Concen: 0.701 ppbv m
RT: 11.25 min Scan# 2633
Delta R.T. 0.01 min
Lab File: VL034874.D
Acq: 10 Mar 2020 20:19

Tgt Ion	Ratio	Lower	Upper
164	100		
166	137.1	100.0	150.0
129	99.1	83.1	124.7
131	79.5	77.2	115.8





#53

Toluene

Concen: 1.387 ppbv

RT: 9.83 min Scan# 2189

Delta R.T. 0.00 min

Lab File: VL034874.D

Acq: 10 Mar 2020 20:19

Instrument :

MSVOA_L

ClientSampleId :

NS-2

Tot Ion: 91 Resp: 286321

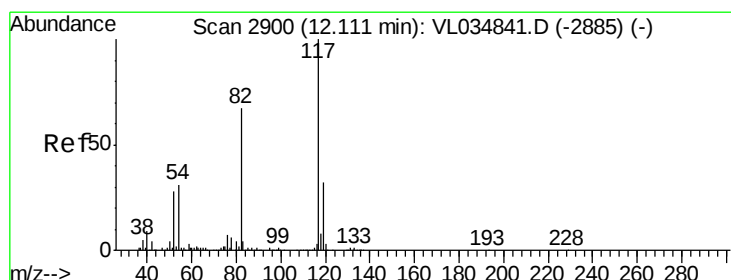
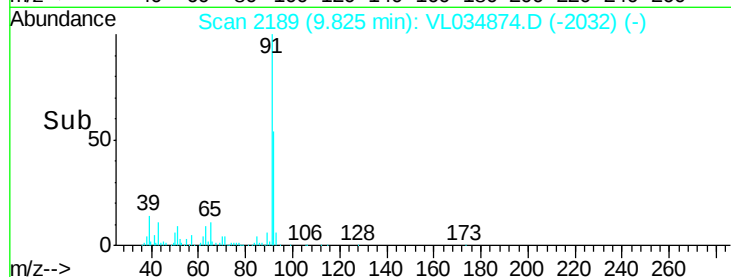
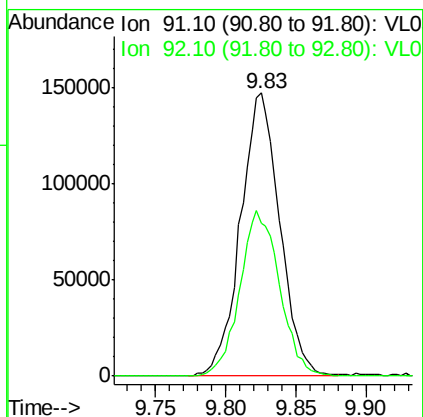
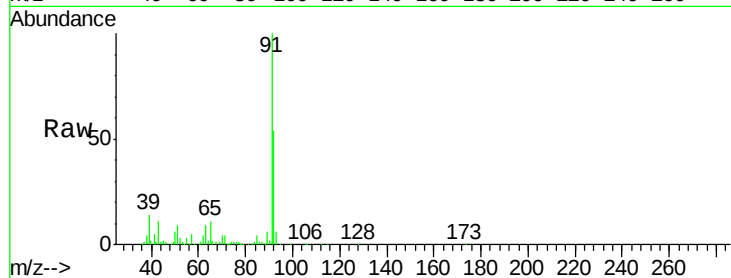
Ion Ratio Lower Upper

91 100

92 59.1 48.6 72.8

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#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.11 min Scan# 2901

Delta R.T. 0.00 min

Lab File: VL034874.D

Acq: 10 Mar 2020 20:19

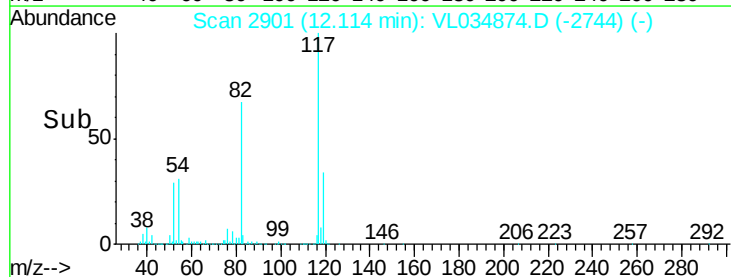
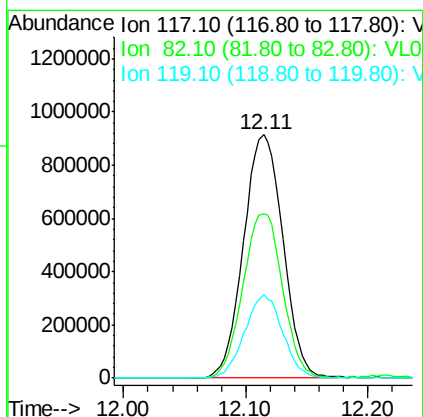
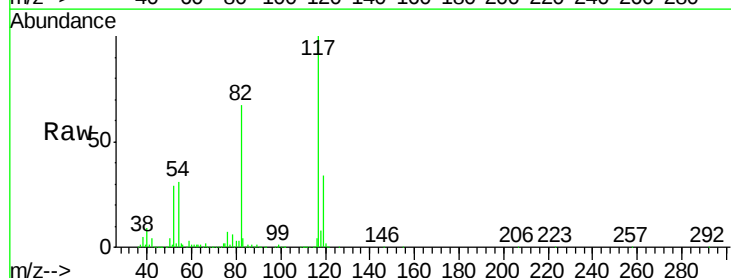
Tgt Ion: 117 Resp: 2042239

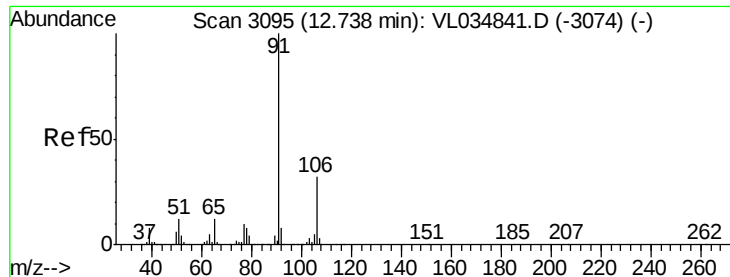
Ion Ratio Lower Upper

117 100

82 68.0 51.1 76.7

119 33.1 27.3 40.9





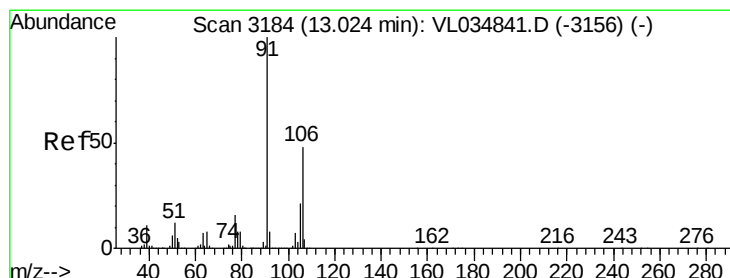
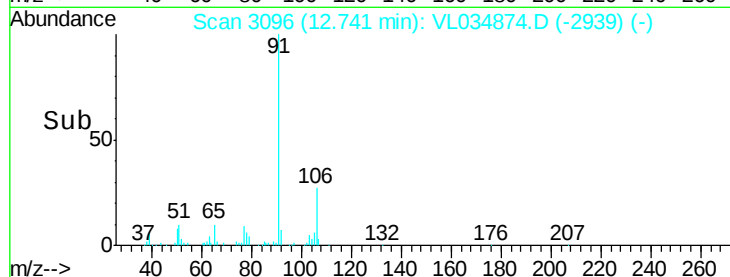
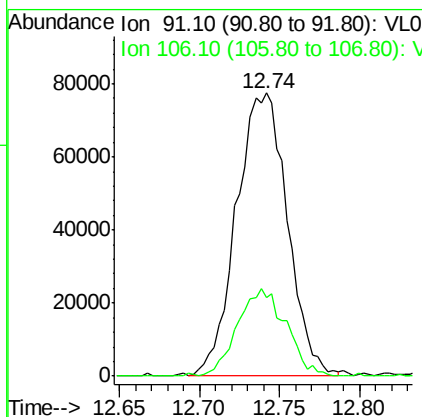
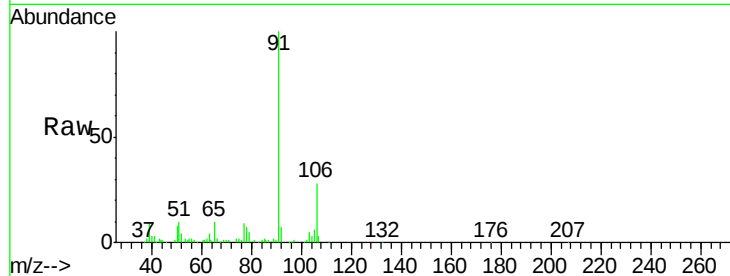
#58
Ethyl Benzene
Concen: 0.605 ppbv
RT: 12.74 min Scan# 3096
Delta R.T. 0.00 min
Lab File: VL034874.D
Acq: 10 Mar 2020 20:19

Instrument :
MSVOA_L
ClientSampleId :
NS-2

Tot Ion: 91 Resp: 167242
Ion Ratio Lower Upper
91 100
106 27.5 25.8 38.6

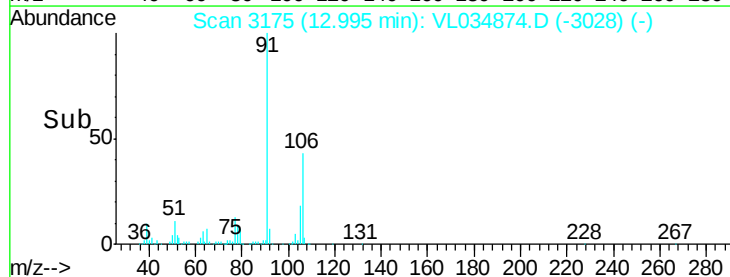
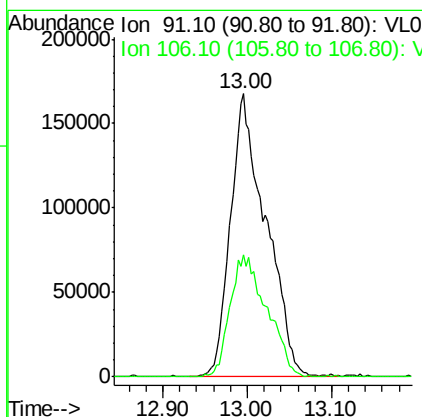
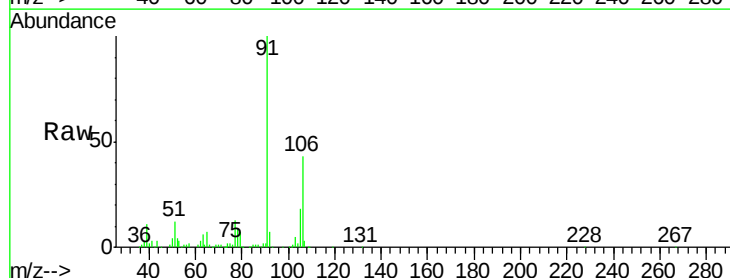
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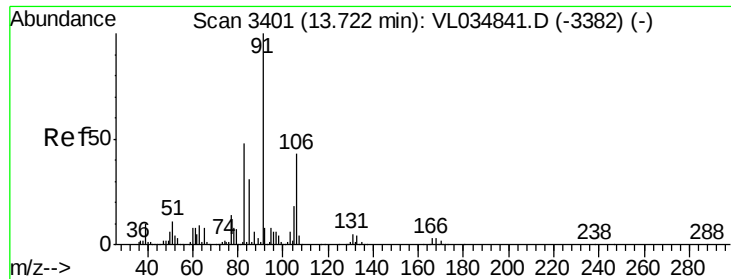
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#59
m/p-Xylene
Concen: 2.115 ppbv m
RT: 13.00 min Scan# 3175
Delta R.T. -0.03 min
Lab File: VL034874.D
Acq: 10 Mar 2020 20:19

Tgt Ion: 91 Resp: 490135
Ion Ratio Lower Upper
91 100
106 0.0 37.1 55.7#





#60

o-Xylene

Concen: 0.549 ppbv

RT: 13.72 min Scan# 3401

Delta R.T. 0.00 min

Lab File: VL034874.D

Acq: 10 Mar 2020 20:19

Instrument :

MSVOA_L

ClientSampled :

NS-2

Tot Ion: 91 Resp: 124287

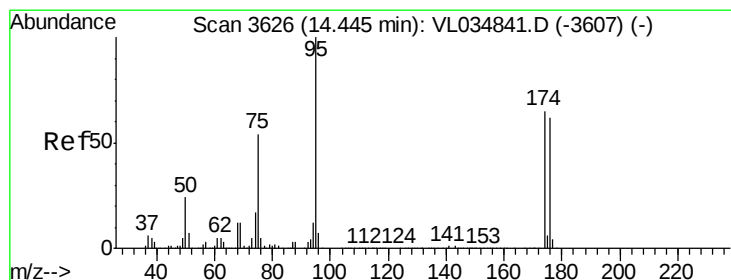
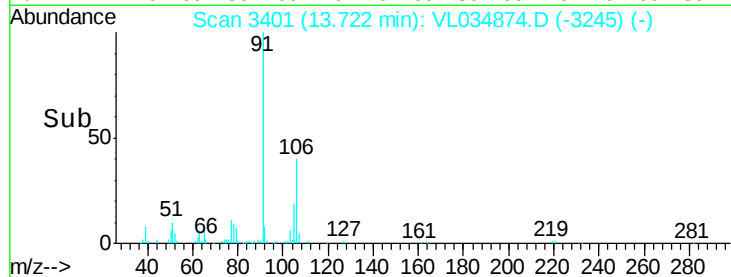
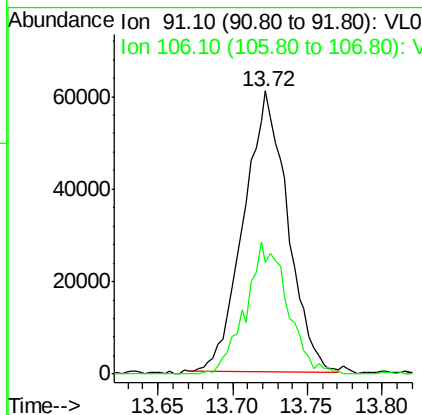
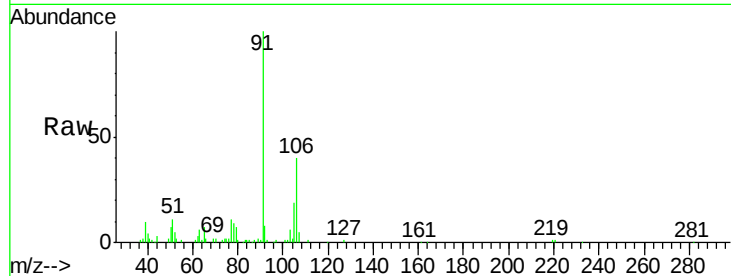
Ion Ratio Lower Upper

91 100

106 44.6 22.5 67.5

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#68

1-Bromo-4-Fluorobenzene

Concen: 10.220 ppbv

RT: 14.45 min Scan# 3627

Delta R.T. 0.00 min

Lab File: VL034874.D

Acq: 10 Mar 2020 20:19

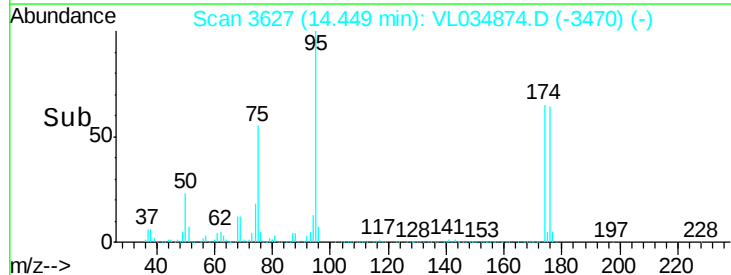
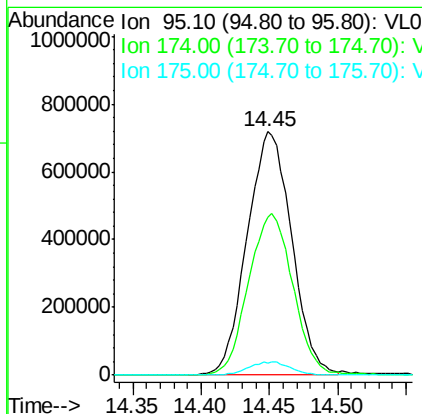
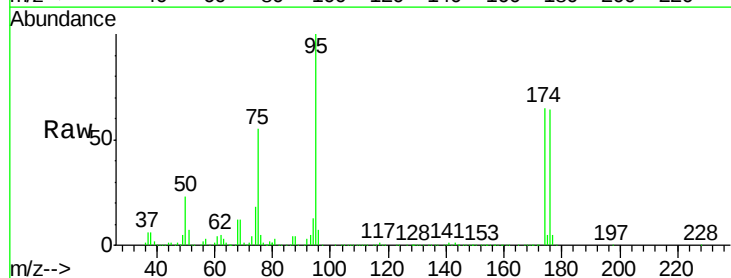
Tgt Ion: 95 Resp: 1627756

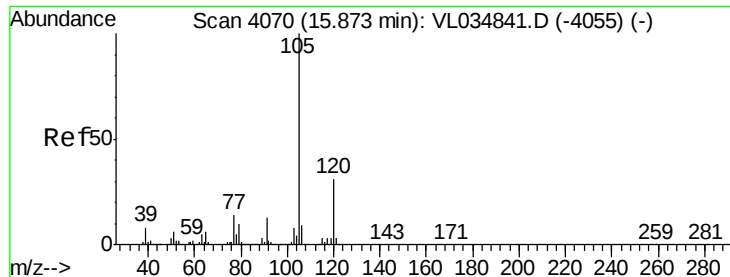
Ion Ratio Lower Upper

95 100

174 66.7 55.2 82.8

175 5.2 4.3 6.5





#72

4-Ethyltoluene

Concen: 0.469 ppbv

RT: 15.87 min Scan# 4070

Delta R.T. 0.00 min

Lab File: VL034874.D

Acq: 10 Mar 2020 20:19

Instrument :

MSVOA_L

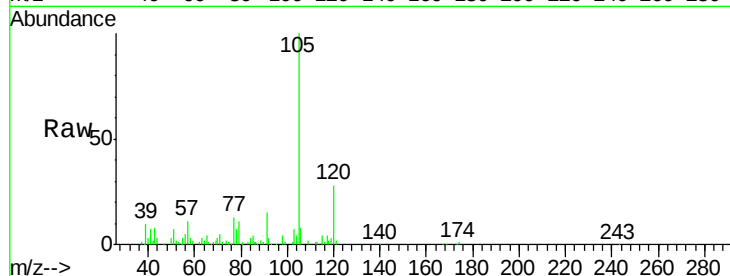
ClientSampled :

NS-2

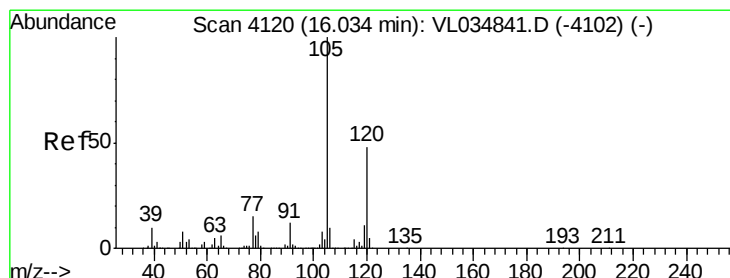
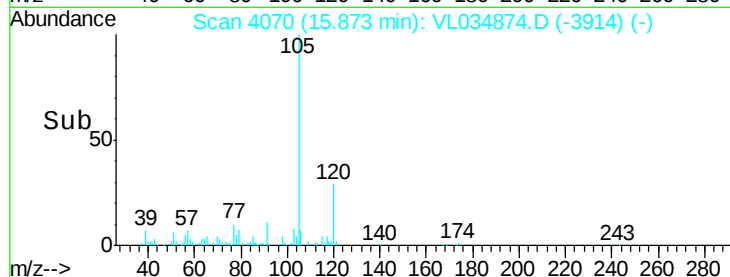
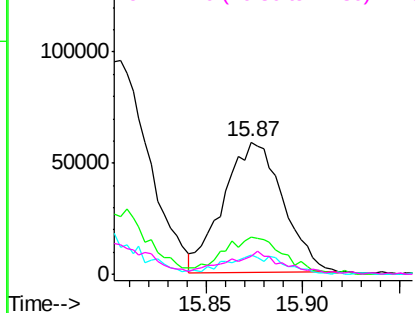
Tot Ion:	105	Resp:	125226
Ion Ratio	Lower	Upper	
105	100		
120	29.8	23.7	35.5
91	15.5	10.5	15.7
77	16.7	11.1	16.7#

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Abundance Ion 105.10 (104.80 to 105.80): V
Ion 120.20 (119.90 to 120.90): V
Ion 91.10 (90.80 to 91.80): VL0
Ion 77.10 (76.80 to 77.80): VL0



#73

1,3,5-Trimethylbenzene

Concen: 0.494 ppbv m

RT: 16.03 min Scan# 4118

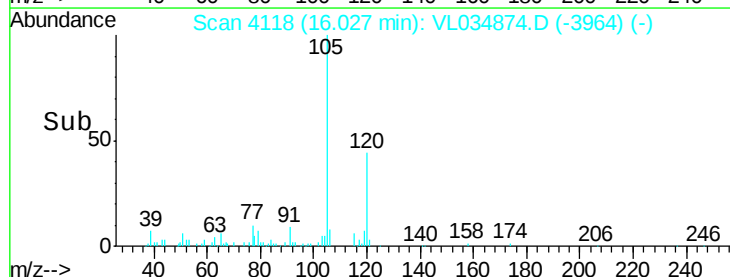
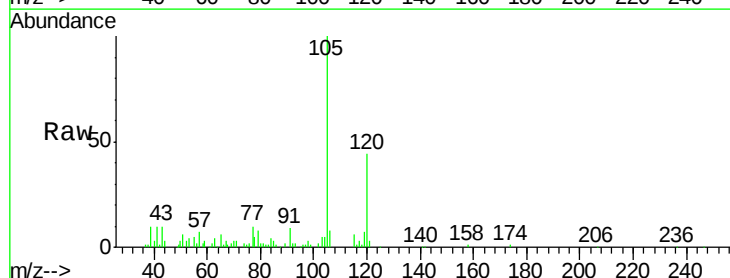
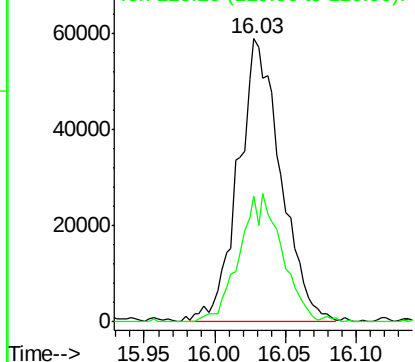
Delta R.T. -0.01 min

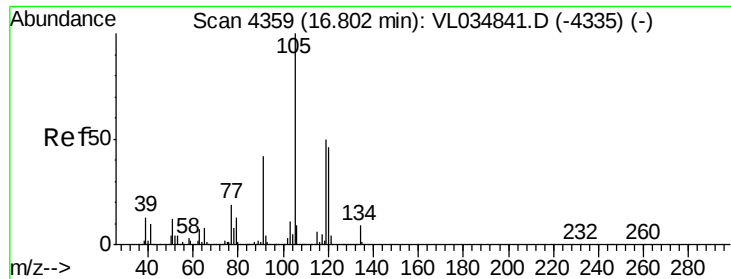
Lab File: VL034874.D

Acq: 10 Mar 2020 20:19

Tgt Ion:	105	Resp:	123532
Ion Ratio	Lower	Upper	
105	100		
120	44.4	38.6	58.0

Abundance Ion 105.10 (104.80 to 105.80): V
Ion 120.20 (119.90 to 120.90): V





#74
 1,2,4-Trimethylbenzene
 Concen: 1.588 ppbv
 RT: 16.80 min Scan# 4359
 Delta R.T. 0.00 min
 Lab File: VL034874.D
 Acq: 10 Mar 2020 20:19

Instrument :
 MSVOA_L
 ClientSampleId :
 NS-2

Tot Ion	Ratio	Resp Lower	Upper
105	100		
120	41.3	37.0	55.4
91	11.6	33.8	50.6
77	14.2	15.4	23.0

Manual Integrations
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MMDadoda
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