

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL031620\
 Data File : VL034896.D
 Acq On : 16 Mar 2020 18:46
 Operator : SY/AP
 Sample : L1924-04
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 OA-01

Manual Integrations
 APPROVED

MMDadoda
 3/17/2020 12:16:02 PM

Quant Time: Mar 17 11:02:44 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	5.65	49	894649	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.17	114	1935904	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.10	117	1869433	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.44	95	1560389	10.70	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	107.00%

Target Compounds					Ovalue
2) Dichlorodifluoromethane	3.00	85	30528	0.249 ppbv	94
3) Chlorodifluoromethane	2.94	51	32178m	0.322 ppbv	
4) Chloromethane	3.10	50	30457	0.539 ppbv	94
9) Propene	2.97	41	47439m	0.994 ppbv	
10) Heptane	8.12	43	13452m	0.115 ppbv	
11) Trichlorofluoromethane	3.92	101	35945	0.276 ppbv	93
13) Ethanol	3.56	45	149706	10.320 ppbv	93
15) Acetone	3.82	43	316454	2.729 ppbv	99
19) Isopropyl Alcohol	3.95	45	66494	0.908 ppbv #	47
20) Methylene Chloride	4.31	84	96731	2.639 ppbv	94
26) Hexane	5.67	57	131262	1.476 ppbv #	48
34) 2-Butanone	5.23	43	42488	0.330 ppbv	99
35) Carbon Tetrachloride	7.01	117	8642m	0.072 ppbv	
36) Benzene	6.89	78	71169	0.412 ppbv	93
38) Trichloroethene	7.83	130	2137m	0.033 ppbv	
44) 2,2,4-Trimethylpentane	7.86	57	69140m	0.237 ppbv	
52) Tetrachloroethene	11.23	164	4581m	0.067 ppbv	
53) Toluene	9.81	91	420256	2.109 ppbv	98
59) m/p-Xylene	12.98	91	56832m	0.268 ppbv	
60) o-Xylene	13.71	91	20245m	0.098 ppbv	

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

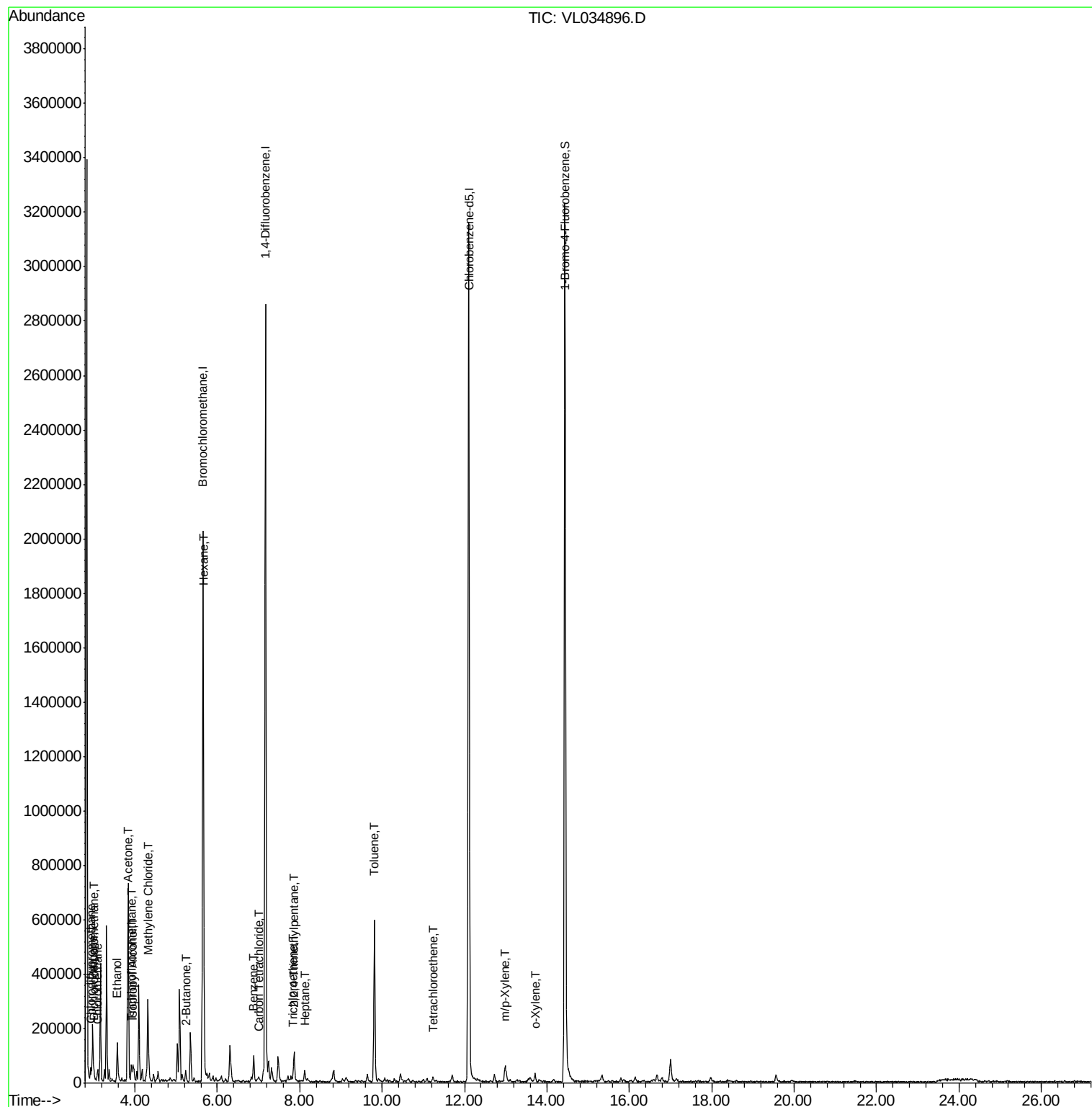
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL031620\
Data File : VL034896.D
Acq On : 16 Mar 2020 18:46
Operator : SY/AP
Sample : L1924-04
Misc : 400ml/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

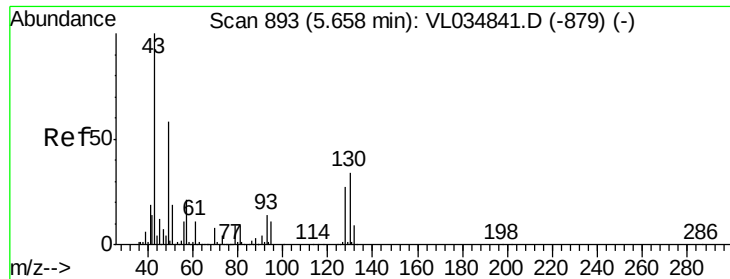
Instrument :
MSVOA_L
ClientSampleId :
OA-01

Manual Integrations
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Quant Time: Mar 17 11:02:44 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: 5.65 min Scan# 890

Delta R.T. -0.01 min

Lab File: VL034896.D

Acq: 16 Mar 2020 18:46

Instrument :

MSVOA_L

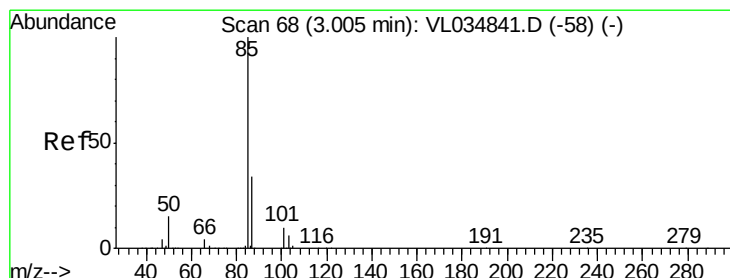
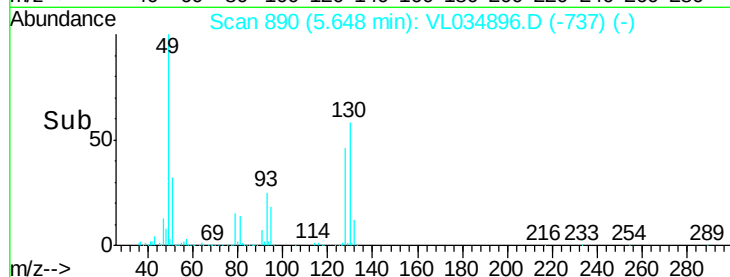
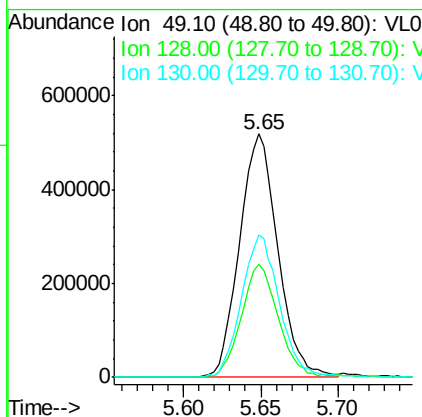
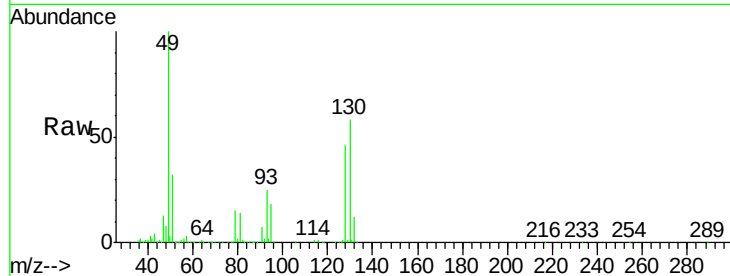
ClientSampleId :

QA-01

Tot Ion:	49	Resp:	894649
Ion	Ratio	Lower	Upper
49	100		
128	45.6	23.4	70.3
130	58.3	30.0	90.0

Manual Integrations
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#2

Dichlorodifluoromethane

Concen: 0.249 ppbv

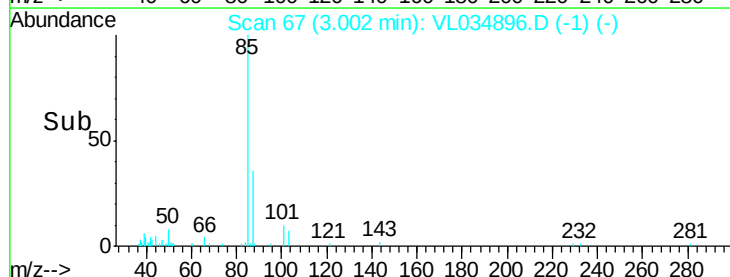
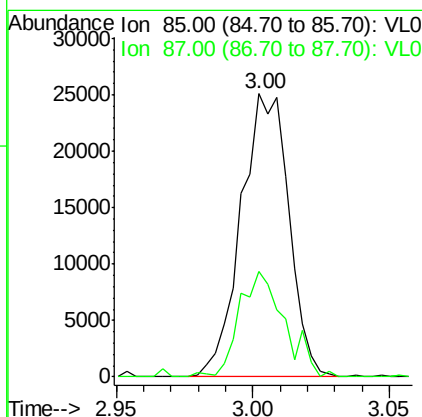
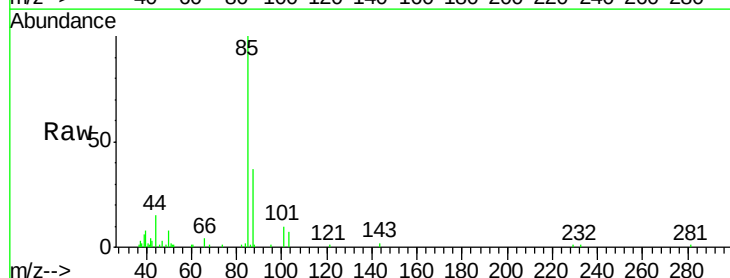
RT: 3.00 min Scan# 67

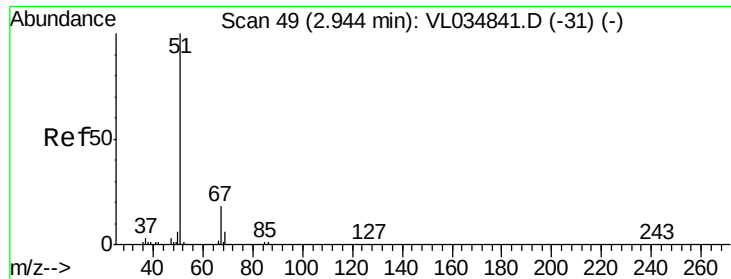
Delta R.T. -0.00 min

Lab File: VL034896.D

Acq: 16 Mar 2020 18:46

Tgt Ion:	85	Resp:	30528
Ion	Ratio	Lower	Upper
85	100		
87	37.1	26.9	40.3





#3

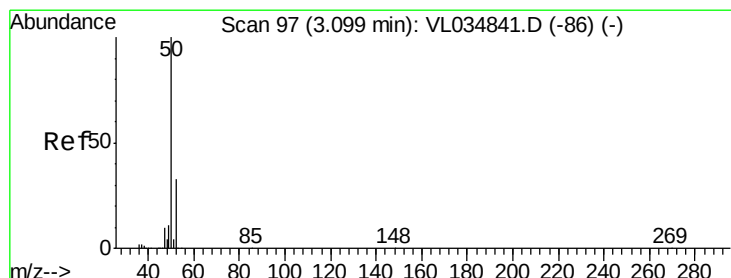
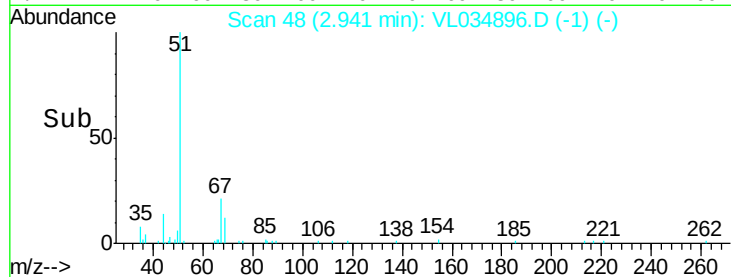
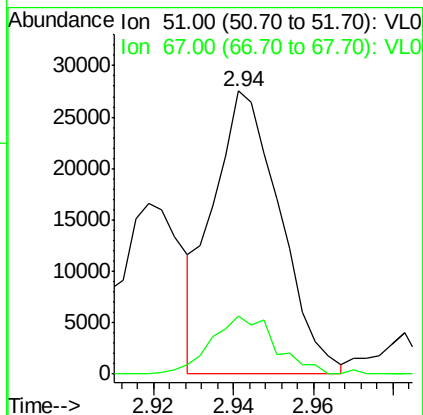
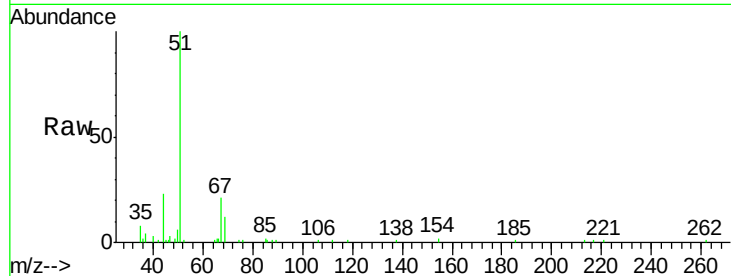
Chlorodifluoromethane
 Concen: 0.322 ppbv
 RT: 2.94 min Scan# 48
 Delta R.T. -0.00 min
 Lab File: VL034896.D
 Acq: 16 Mar 2020 18:46

Instrument :
 MSVOA_L
 ClientSampleId :
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Tot Ion	Ratio	Lower	Upper
51	100		
67	20.0	14.3	21.5

Manual Integrations
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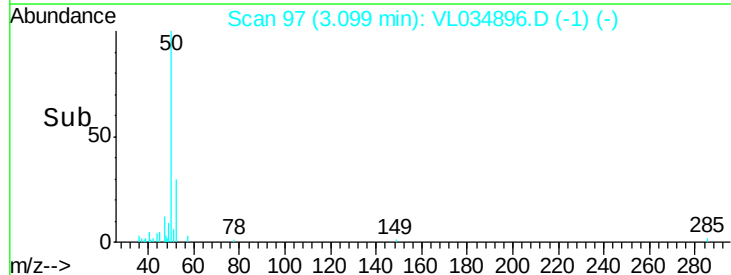
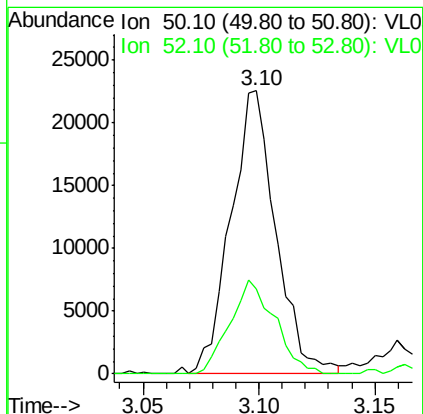
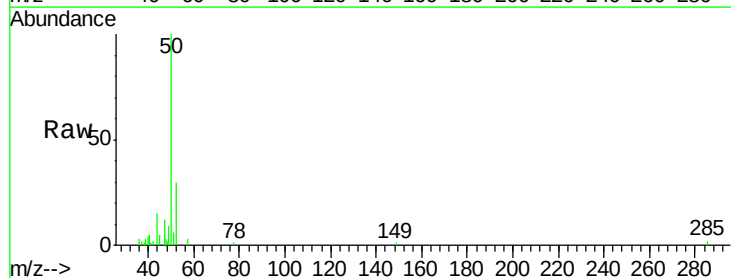
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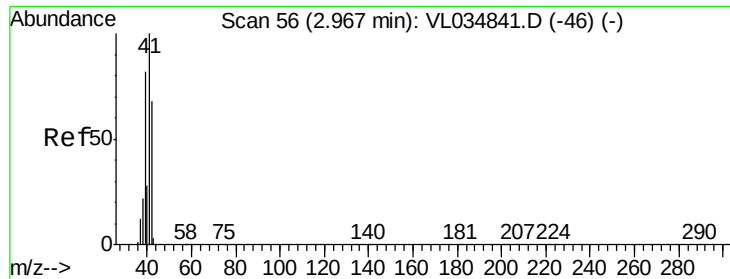


#4

Chloromethane
 Concen: 0.539 ppbv
 RT: 3.10 min Scan# 97
 Delta R.T. 0.00 min
 Lab File: VL034896.D
 Acq: 16 Mar 2020 18:46

Tgt Ion	Ratio	Lower	Upper
50	100		
52	29.8	26.8	40.2





#9

Propene

Concen: 0.994 ppbv m

RT: 2.97 min Scan# 57

Delta R.T. 0.00 min

Lab File: VL034896.D

Acq: 16 Mar 2020 18:46

Instrument :

MSVOA_L

ClientSampleId :

QA-01

Tot Ion: 41 Resp: 47439

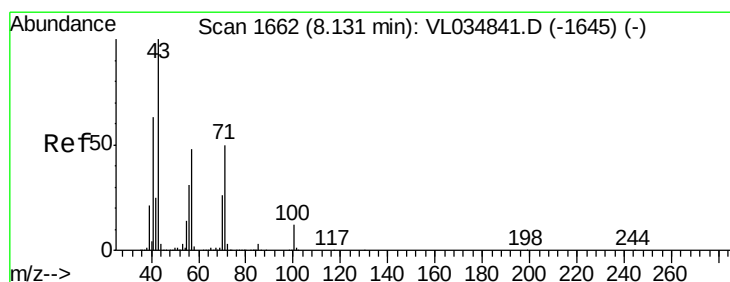
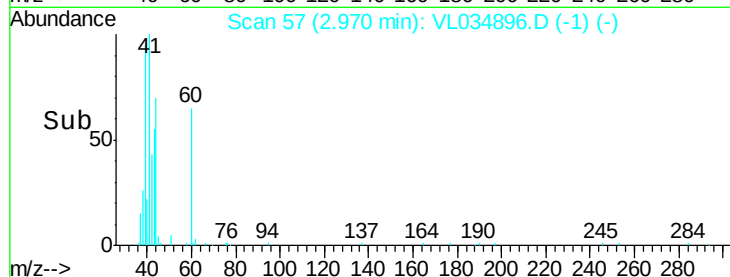
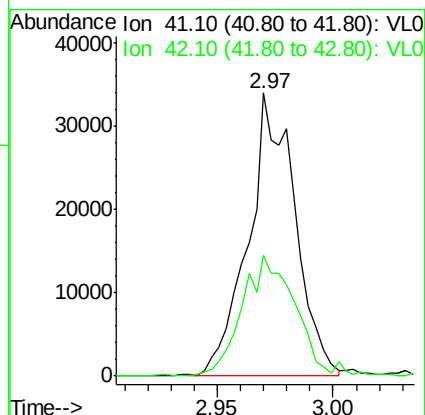
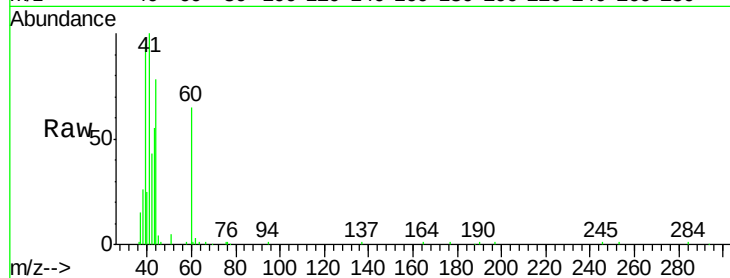
Ion Ratio Lower Upper

41 100

42 49.5 55.2 82.8#

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#10

Heptane

Concen: 0.115 ppbv m

RT: 8.12 min Scan# 1660

Delta R.T. -0.01 min

Lab File: VL034896.D

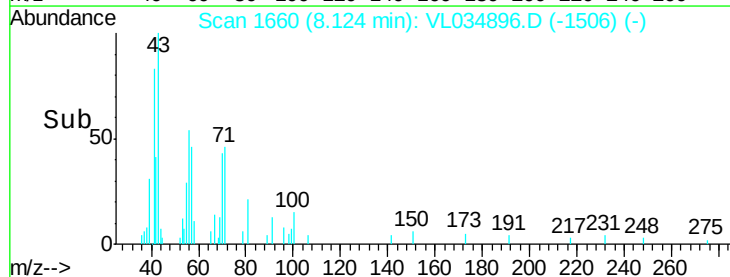
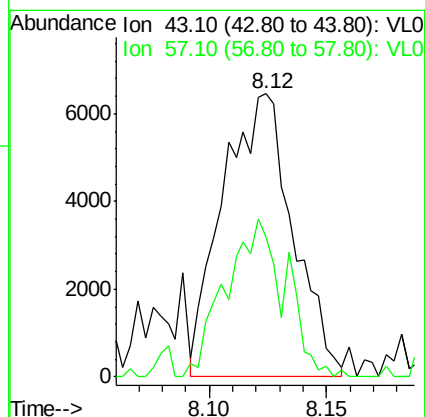
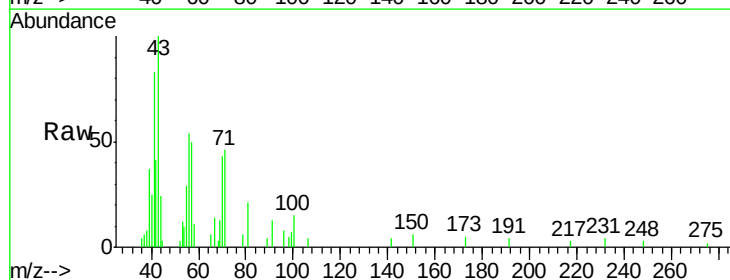
Acq: 16 Mar 2020 18:46

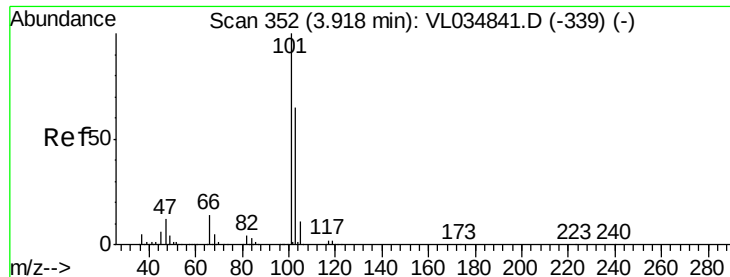
Tgt Ion: 43 Resp: 13452

Ion Ratio Lower Upper

43 100

57 0.0 39.7 59.5#





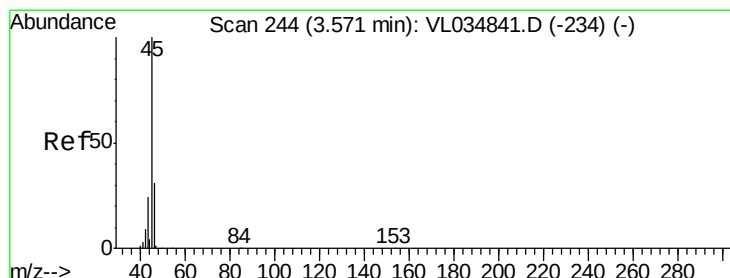
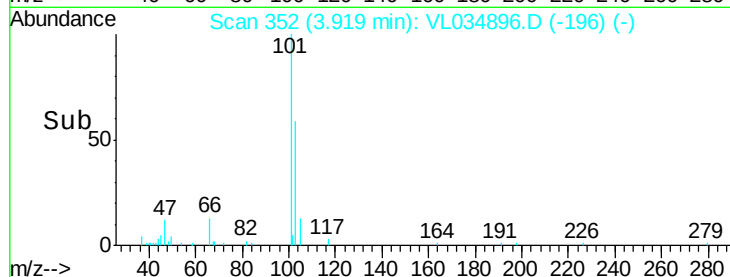
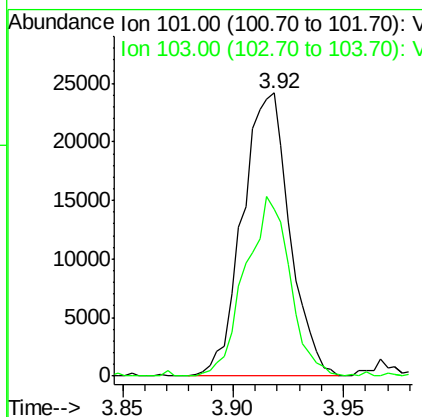
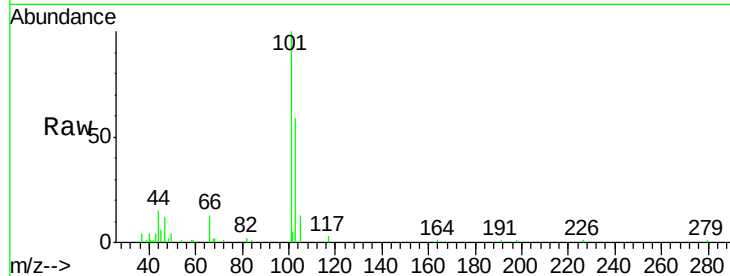
#11
 Trichlorofluoromethane
 Concen: 0.276 ppbv
 RT: 3.92 min Scan# 352
 Delta R.T. 0.00 min
 Lab File: VL034896.D
 Acq: 16 Mar 2020 18:46

Instrument :
 MSVOA_L
 ClientSampleId :
 OA-01

Tot Ion:101 Resp: 35945
 Ion Ratio Lower Upper
 101 100
 103 59.2 51.8 77.8

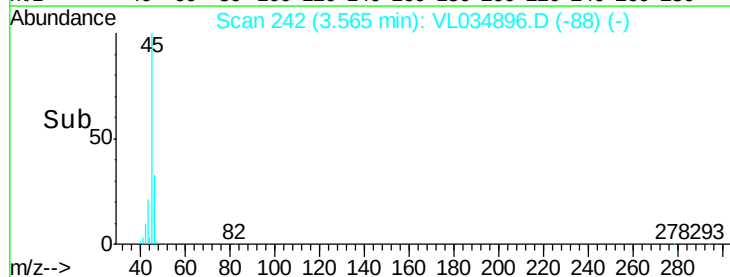
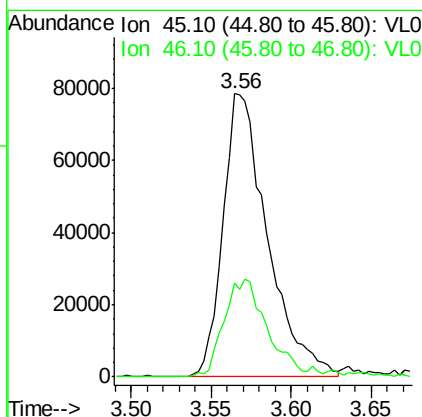
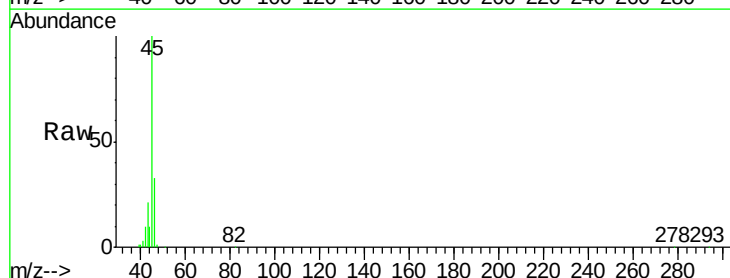
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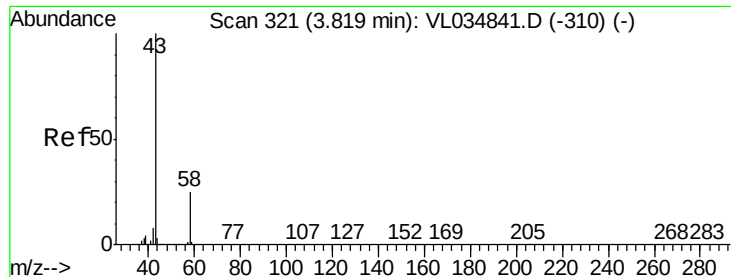
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#13
 Ethanol
 Concen: 10.320 ppbv
 RT: 3.56 min Scan# 242
 Delta R.T. -0.01 min
 Lab File: VL034896.D
 Acq: 16 Mar 2020 18:46

Tgt Ion: 45 Resp: 149706
 Ion Ratio Lower Upper
 45 100
 46 35.5 16.0 64.0





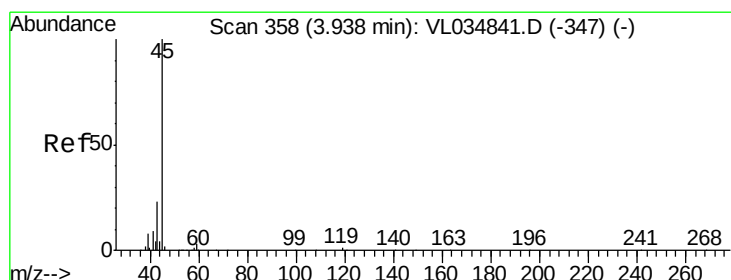
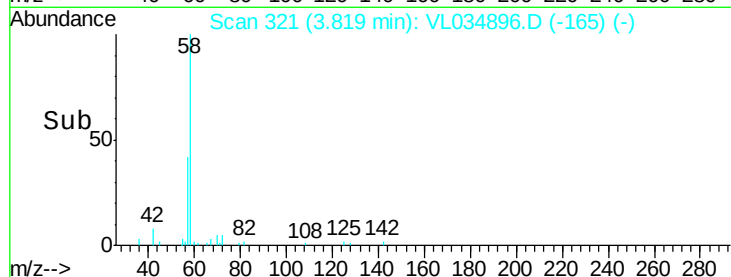
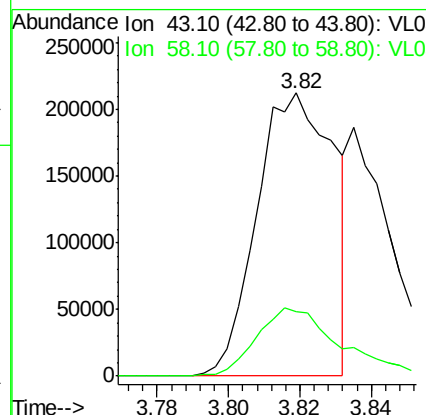
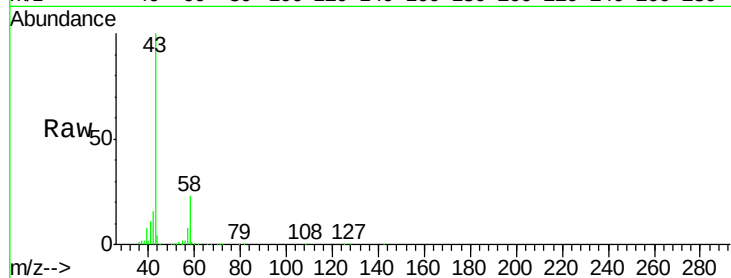
#15
Acetone
Concen: 2.729 ppbv
RT: 3.82 min Scan# 321
Delta R.T. 0.00 min
Lab File: VL034896.D
Acq: 16 Mar 2020 18:46

Instrument :
MSVOA_L
ClientSampled :
QA-01

Tot Ion: 43 Resp: 316454
Ion Ratio Lower Upper
43 100
58 27.0 21.0 31.6

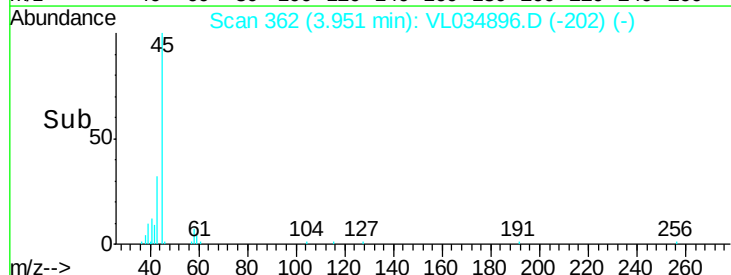
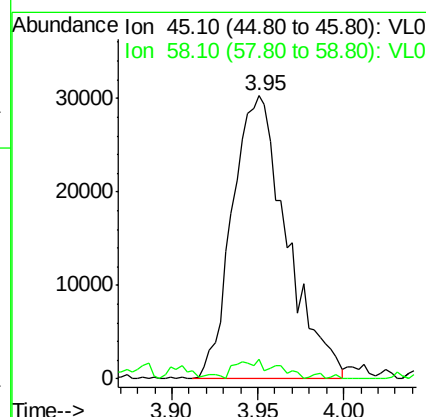
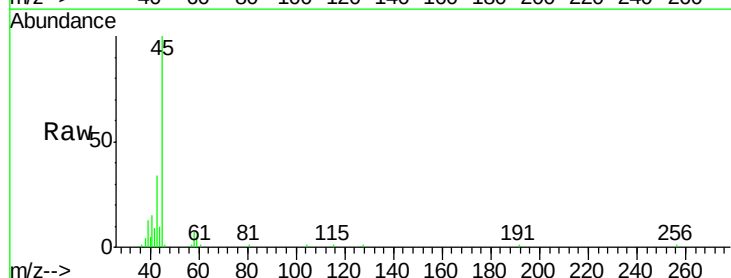
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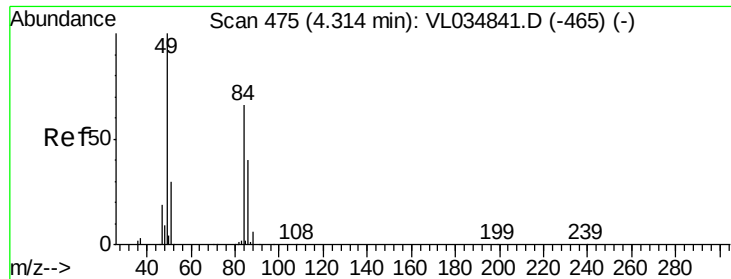
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#19
Isopropyl Alcohol
Concen: 0.908 ppbv
RT: 3.95 min Scan# 362
Delta R.T. 0.01 min
Lab File: VL034896.D
Acq: 16 Mar 2020 18:46

Tgt Ion: 45 Resp: 66494
Ion Ratio Lower Upper
45 100
58 6.0 30.5 45.7#





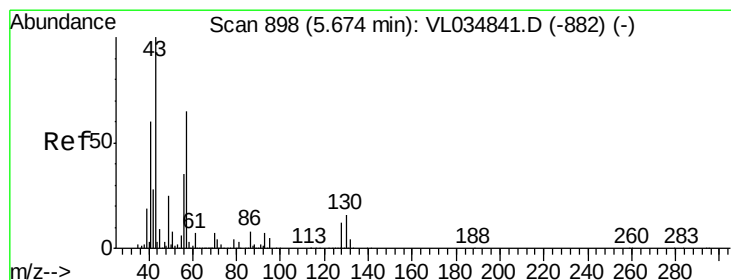
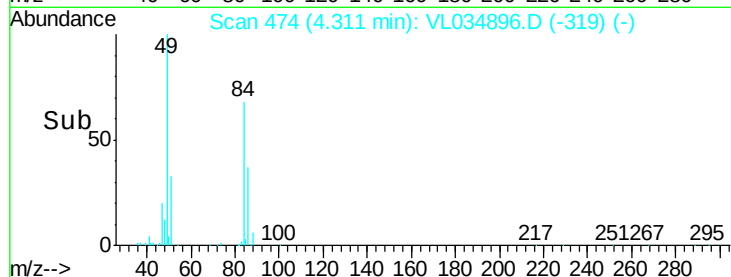
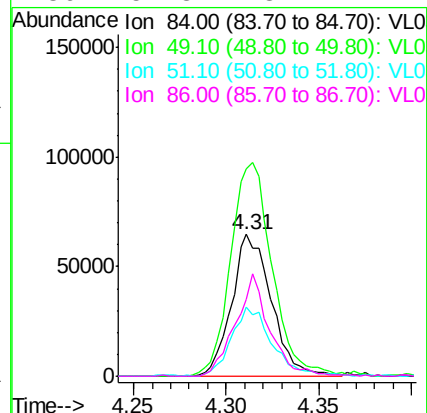
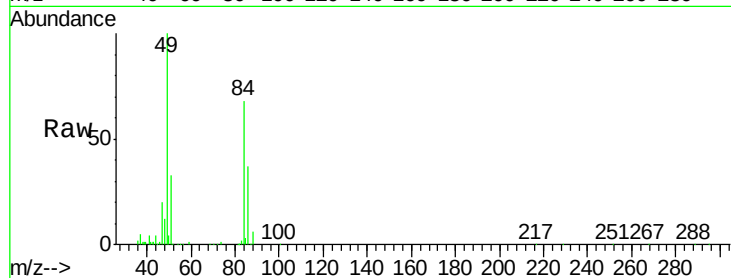
#20
Methvlene Chloride
Concen: 2.639 ppbv
RT: 4.31 min Scan# 474
Delta R.T. -0.00 min
Lab File: VL034896.D
Acq: 16 Mar 2020 18:46

Instrument :
MSVOA_L
ClientSampled :
QA-01

Tot Ion:	84	Resp:	96731
Ion	Ratio	Lower	Upper
84	100		
49	145.4	121.5	182.3
51	48.7	36.6	55.0
86	54.3	48.2	72.2

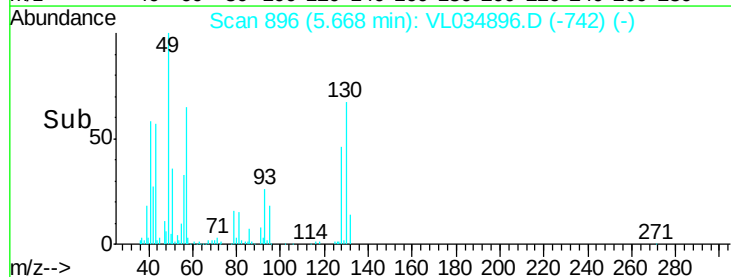
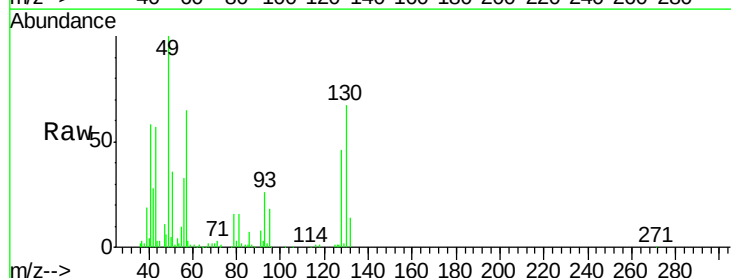
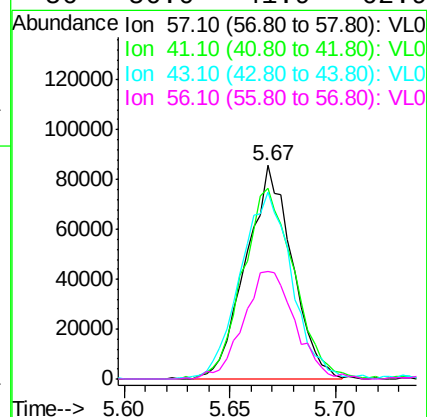
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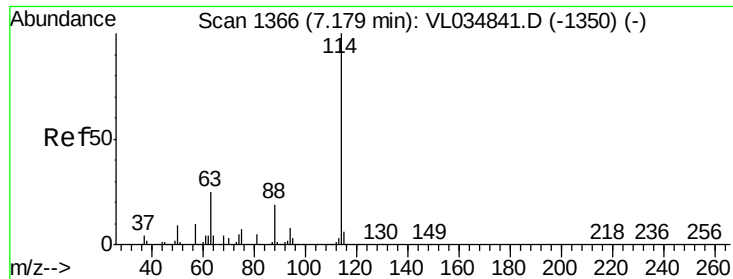
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#26
Hexane
Concen: 1.476 ppbv
RT: 5.67 min Scan# 896
Delta R.T. -0.01 min
Lab File: VL034896.D
Acq: 16 Mar 2020 18:46

Tgt Ion:	57	Resp:	131262
Ion	Ratio	Lower	Upper
57	100		
41	98.9	72.6	109.0
43	97.5	183.8	275.6#
56	56.0	41.9	62.9





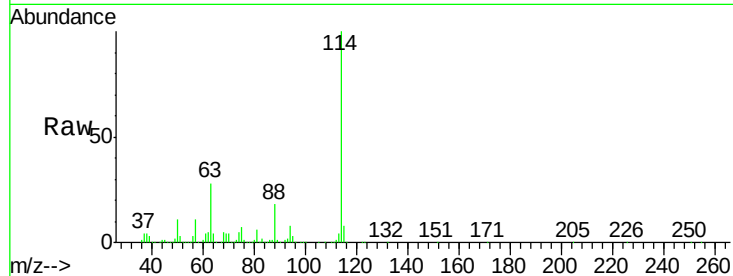
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.17 min Scan# 1363
 Delta R.T. -0.01 min
 Lab File: VL034896.D
 Acq: 16 Mar 2020 18:46

Instrument :
 MSVOA_L
 ClientSampled :
 OA-01

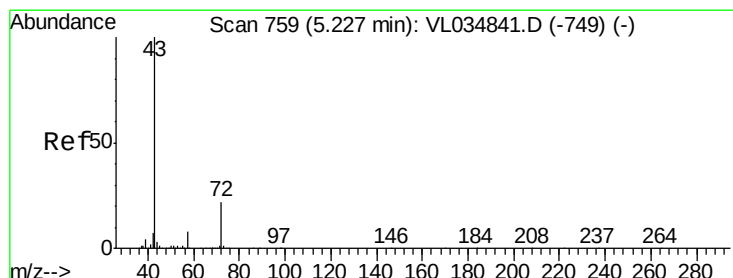
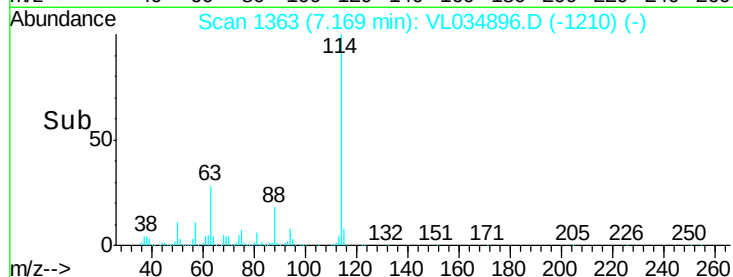
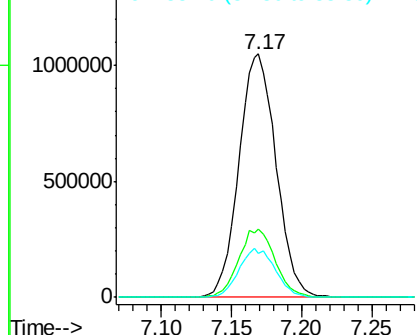
Tot Ion:114 Resp: 1935904
 Ion Ratio Lower Upper
 114 100
 63 27.6 20.6 31.0
 88 19.8 15.0 22.6

Manual Integrations
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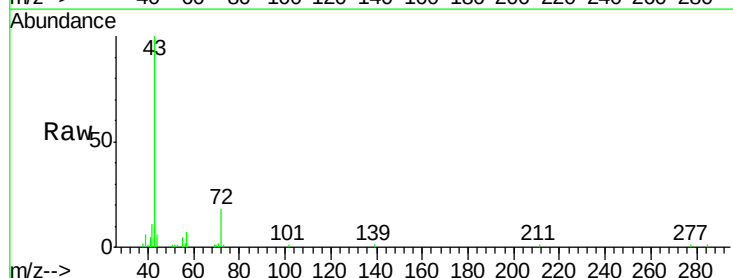


Abundance Ion 114.10 (113.80 to 114.80): V
 Ion 63.10 (62.80 to 63.80): VL0
 Ion 88.10 (87.80 to 88.80): VL0

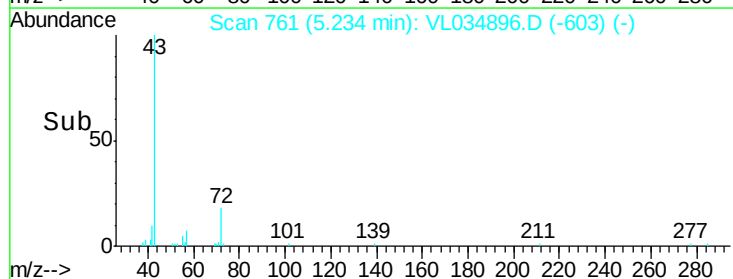
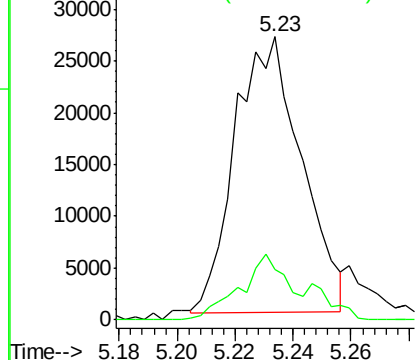


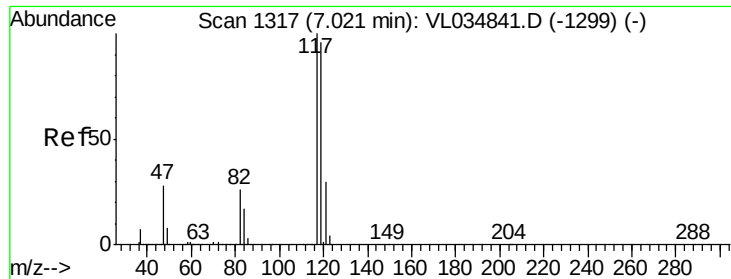
#34
 2-Butanone
 Concen: 0.330 ppbv
 RT: 5.23 min Scan# 761
 Delta R.T. 0.01 min
 Lab File: VL034896.D
 Acq: 16 Mar 2020 18:46

Tgt Ion: 43 Resp: 42488
 Ion Ratio Lower Upper
 43 100
 72 21.5 17.6 26.4



Abundance Ion 43.10 (42.80 to 43.80): VL0
 Ion 72.10 (71.80 to 72.80): VL0





#35

Carbon Tetrachloride

Concen: 0.072 ppbv m

RT: 7.01 min Scan# 1312

Delta R.T. -0.02 min

Lab File: VL034896.D

Acq: 16 Mar 2020 18:46

Instrument :

MSVOA_L

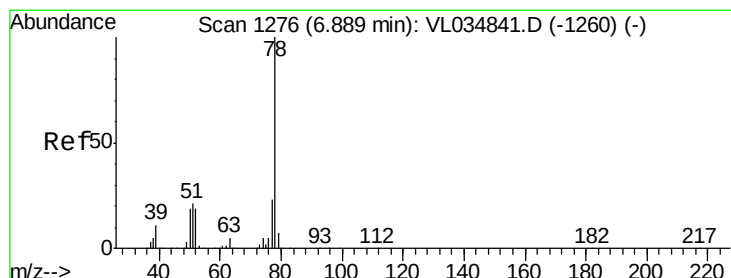
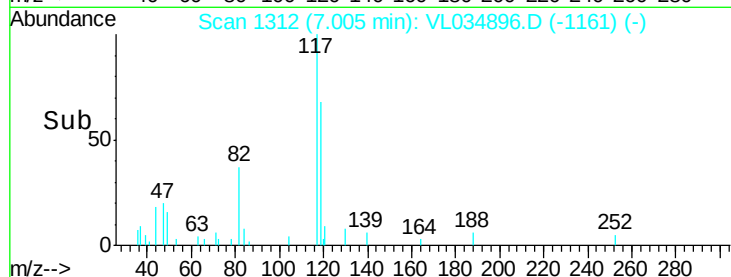
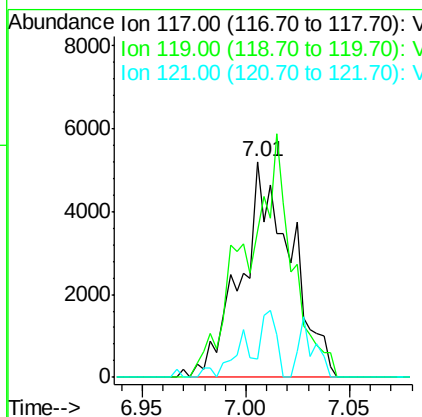
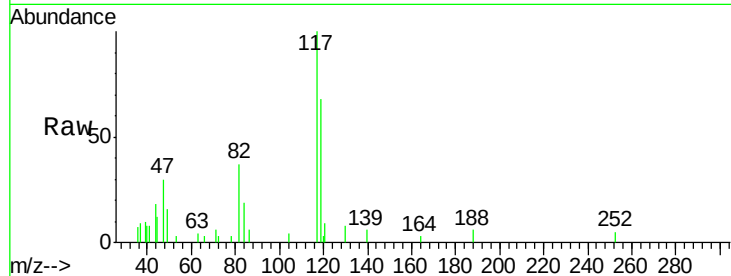
ClientSampled :

QA-01

Tot Ion	Ratio	Lower	Upper
117	100		
119	67.5	77.0	115.4#
121	8.7	24.0	36.0#

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#36

Benzene

Concen: 0.412 ppbv

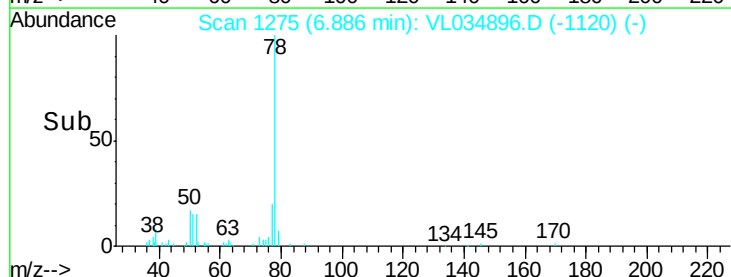
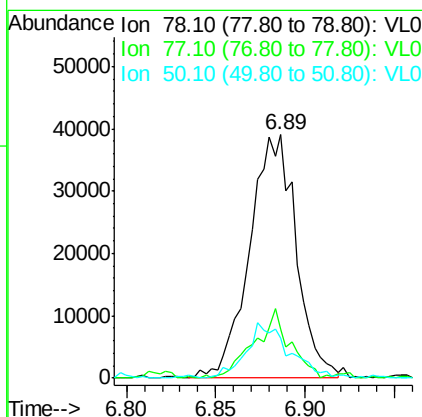
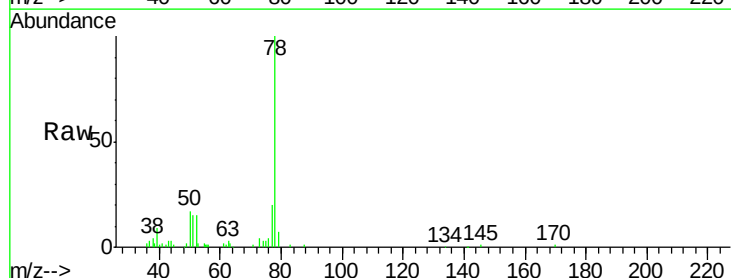
RT: 6.89 min Scan# 1275

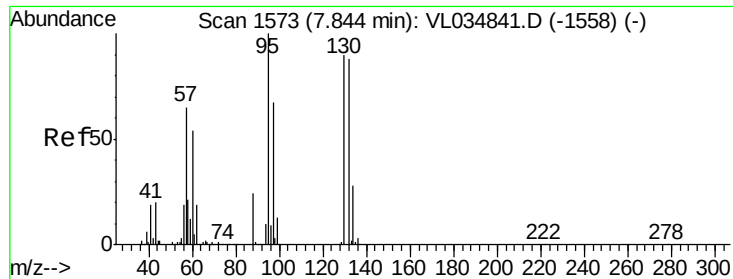
Delta R.T. -0.00 min

Lab File: VL034896.D

Acq: 16 Mar 2020 18:46

Tgt Ion	Ratio	Lower	Upper
78	100		
77	19.7	18.2	27.2
50	15.4	15.2	22.8





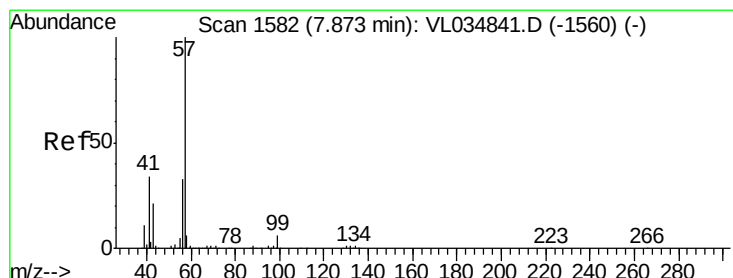
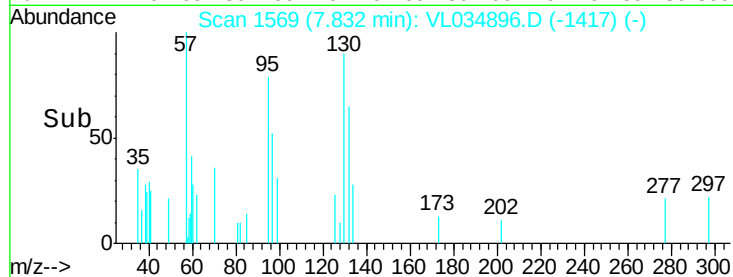
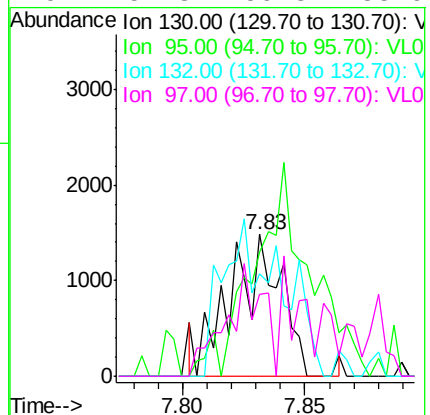
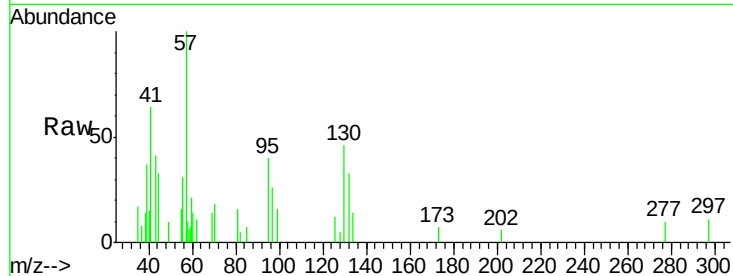
#38
 Trichloroethene
 Concen: 0.033 ppbv m
 RT: 7.83 min Scan# 1569
 Delta R.T. -0.01 min
 Lab File: VL034896.D
 Acq: 16 Mar 2020 18:46

Instrument :
 MSVOA_L
 ClientSampleId :
 OA-01

Tot Ion	Ratio	Lower	Upper
130	100		
95	87.3	88.5	132.7#
132	72.1	78.0	117.0#
97	57.8	59.3	88.9#

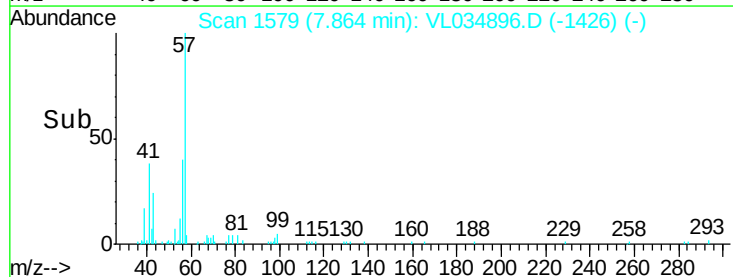
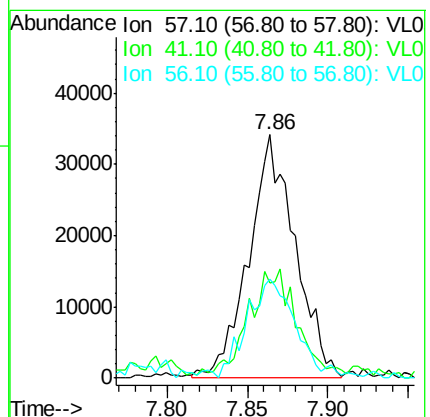
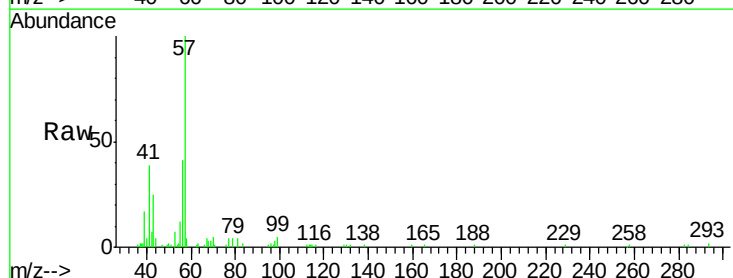
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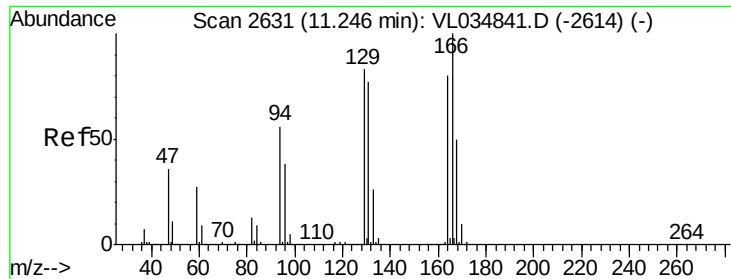
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#44
 2,2,4-Trimethylpentane
 Concen: 0.237 ppbv m
 RT: 7.86 min Scan# 1579
 Delta R.T. -0.01 min
 Lab File: VL034896.D
 Acq: 16 Mar 2020 18:46

Tgt Ion	Ratio	Lower	Upper
57	100		
41	0.0	26.2	39.4#
56	44.6	25.0	37.4#





#52

Tetrachloroethene

Concen: 0.067 ppbv m

RT: 11.23 min Scan# 2626

Delta R.T. -0.02 min

Lab File: VL034896.D

Acq: 16 Mar 2020 18:46

Instrument :

MSVOA_L

ClientSampleId :

QA-01

Tot Ion:164 Resp: 4581

Ion Ratio Lower Upper

164 100

166 93.0 100.0 150.0#

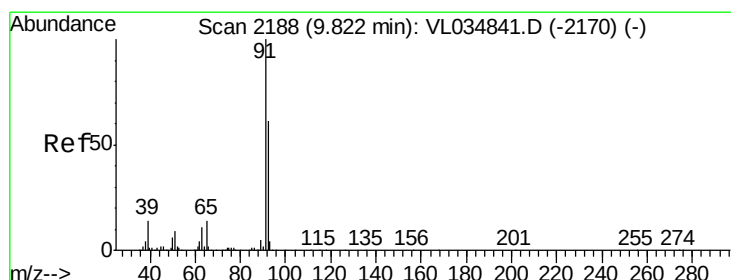
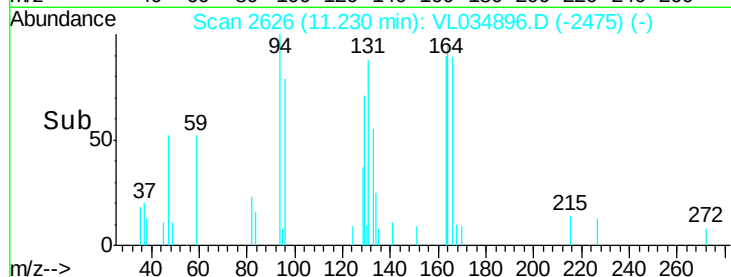
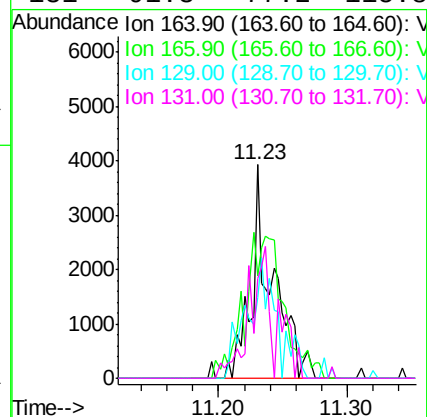
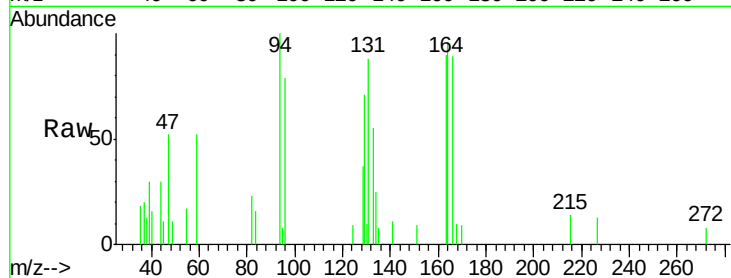
129 73.5 83.1 124.7#

131 91.3 77.2 115.8

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#53

Toluene

Concen: 2.109 ppbv

RT: 9.81 min Scan# 2185

Delta R.T. -0.01 min

Lab File: VL034896.D

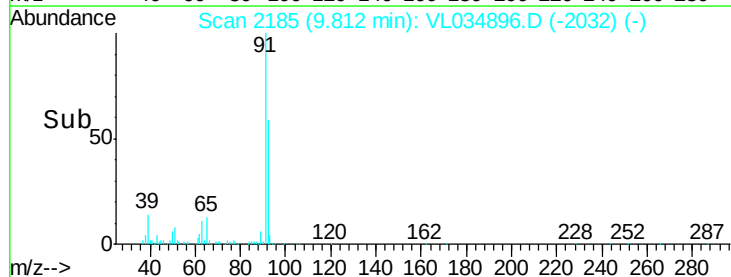
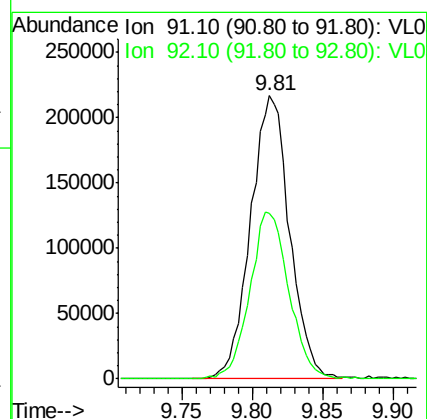
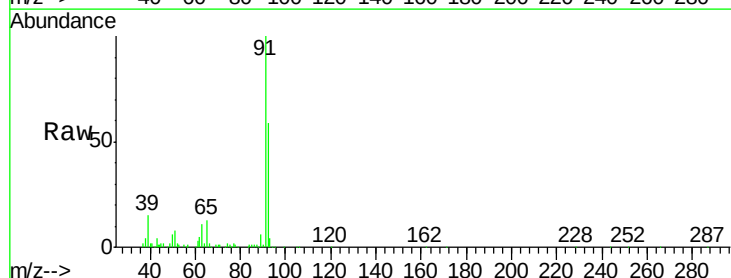
Acq: 16 Mar 2020 18:46

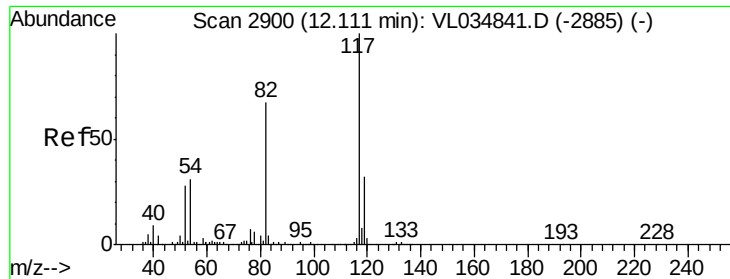
Tgt Ion: 91 Resp: 420256

Ion Ratio Lower Upper

91 100

92 59.1 48.6 72.8





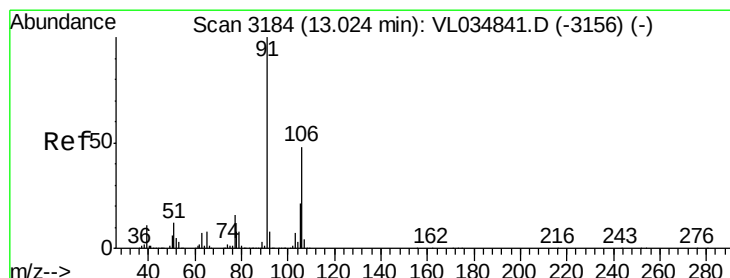
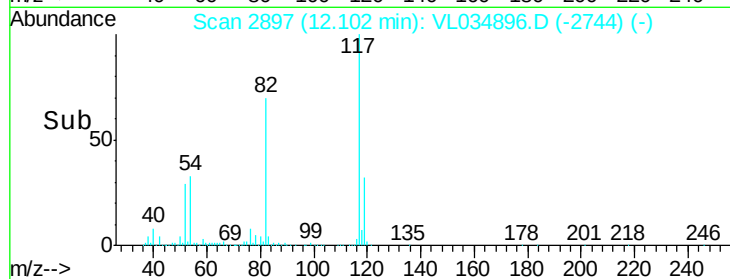
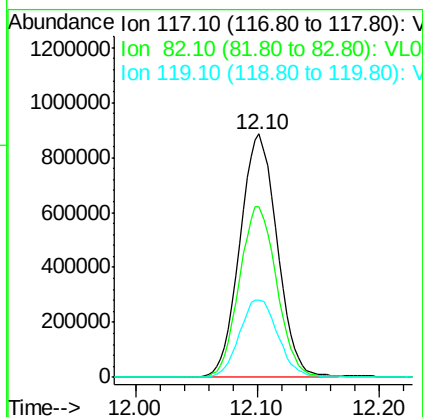
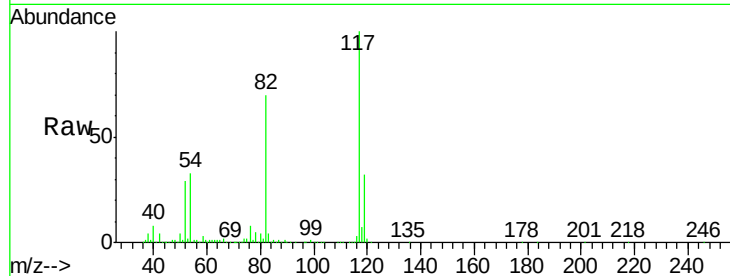
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.10 min Scan# 2897
Delta R.T. -0.01 min
Lab File: VL034896.D
Acq: 16 Mar 2020 18:46

Instrument :
MSVOA_L
ClientSampleId :
QA-01

Tot Ion	Ratio	Lower	Upper
117	100		
82	70.9	51.1	76.7
119	33.0	27.3	40.9

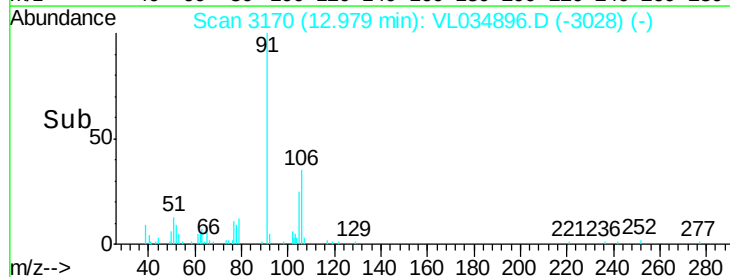
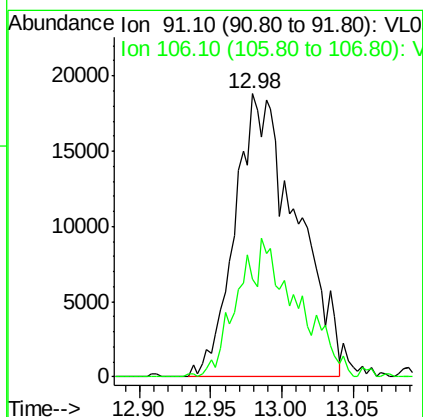
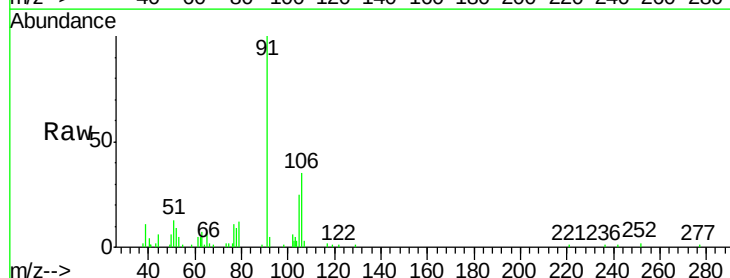
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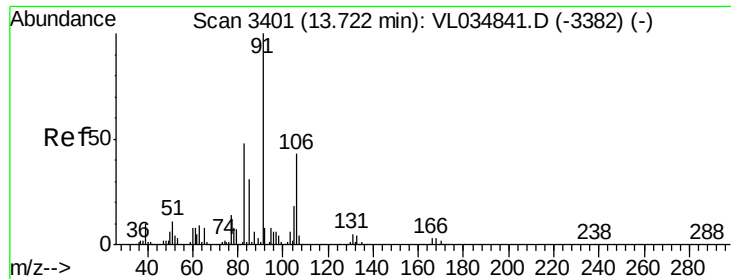
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#59
m/p-Xylene
Concen: 0.268 ppbv m
RT: 12.98 min Scan# 3170
Delta R.T. -0.04 min
Lab File: VL034896.D
Acq: 16 Mar 2020 18:46

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





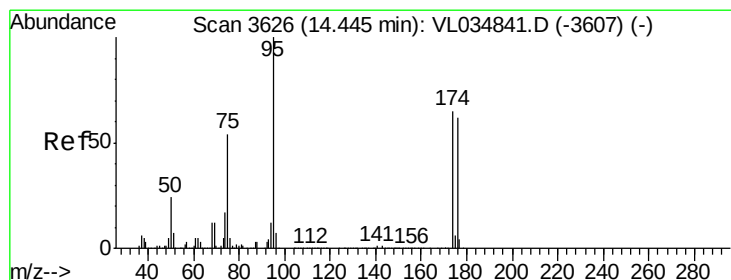
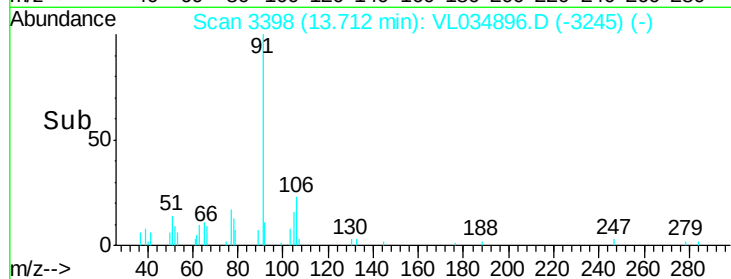
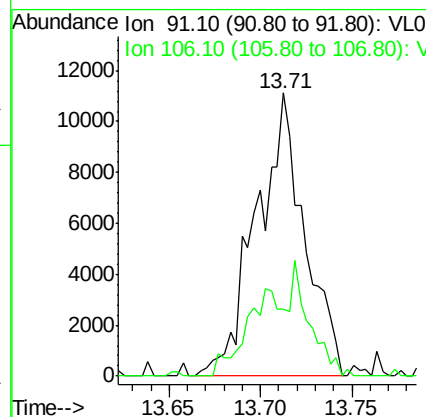
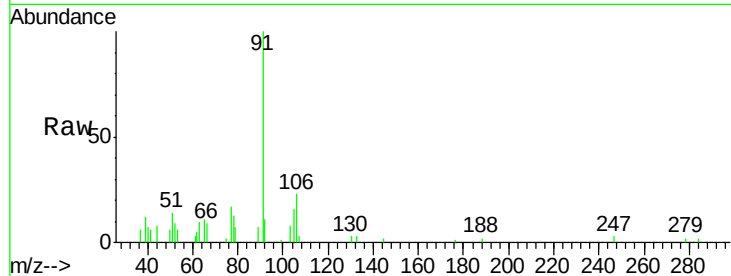
#60
o-Xylene
Concen: 0.098 ppbv m
RT: 13.71 min Scan# 3398
Delta R.T. -0.01 min
Lab File: VL034896.D
Acq: 16 Mar 2020 18:46

Instrument :
MSVOA_L
ClientSampleId :
QA-01

Tot Ion: 91 Resp: 20245
Ion Ratio Lower Upper
91 100
106 40.4 22.5 67.5

Manual Integrations
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#68
1-Bromo-4-Fluorobenzene
Concen: 10.703 ppbv
RT: 14.44 min Scan# 3623
Delta R.T. -0.01 min
Lab File: VL034896.D
Acq: 16 Mar 2020 18:46

Tgt Ion: 95 Resp: 1560389
Ion Ratio Lower Upper
95 100
174 65.4 55.2 82.8
175 4.9 4.3 6.5

