

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL032019\
 Data File : VL033401.D
 Acq On : 20 Mar 2019 22:24
 Operator : SY/AP
 Sample : K1975-03DL 10X
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA2DL

Manual Integrations
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MMDadoda
 3/25/2019 8:26:34 AM

Quant Time: Mar 22 06:03:35 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL031519AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Mar 1
 QLast Update : Fri Mar 15 14:52:14 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.76	49	867354	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.29	114	2379434	10.00	ppbv	-0.01
55) Chlorobenzene-d5	12.24	117	2270364	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.58	95	1682926	10.00	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	100.00%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
9) Propene	3.05	41	15326m	0.345	ppbv	
10) Heptane	8.25	43	303586	2.754	ppbv	98
13) Ethanol	3.65	45	632063	29.834	ppbv	97
15) Acetone	3.89	43	6522370m	48.375	ppbv	
20) Methylene Chloride	4.41	84	35972	0.818	ppbv #	93
26) Hexane	5.78	57	561738	6.411	ppbv #	40
30) Cyclohexane	7.25	84	120154	1.710	ppbv #	79
34) 2-Butanone	5.33	43	222458	1.424	ppbv	98
36) Benzene	7.00	78	283550	1.332	ppbv	98
44) 2,2,4-Trimethylpentane	7.99	57	620051	1.758	ppbv #	81
52) Tetrachloroethene	11.38	164	4406245	49.668	ppbv	98
53) Toluene	9.95	91	5195146	21.470	ppbv	98
58) Ethyl Benzene	12.86	91	279757	0.871	ppbv	99
59) m/p-Xylene	13.12	91	833970	3.021	ppbv #	100
60) o-Xylene	13.85	91	315081	1.170	ppbv	99
72) 4-Ethyltoluene	15.99	105	142049	0.465	ppbv	97
73) 1,3,5-Trimethylbenzene	16.16	105	124433m	0.418	ppbv	
74) 1,2,4-Trimethylbenzene	16.92	105	455750	1.445	ppbv #	72
79) Naphthalene	22.41	128	60783m	0.200	ppbv	
80) Naphthalene,2-methyl-	25.12	142	12746	0.088	ppbv #	84

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

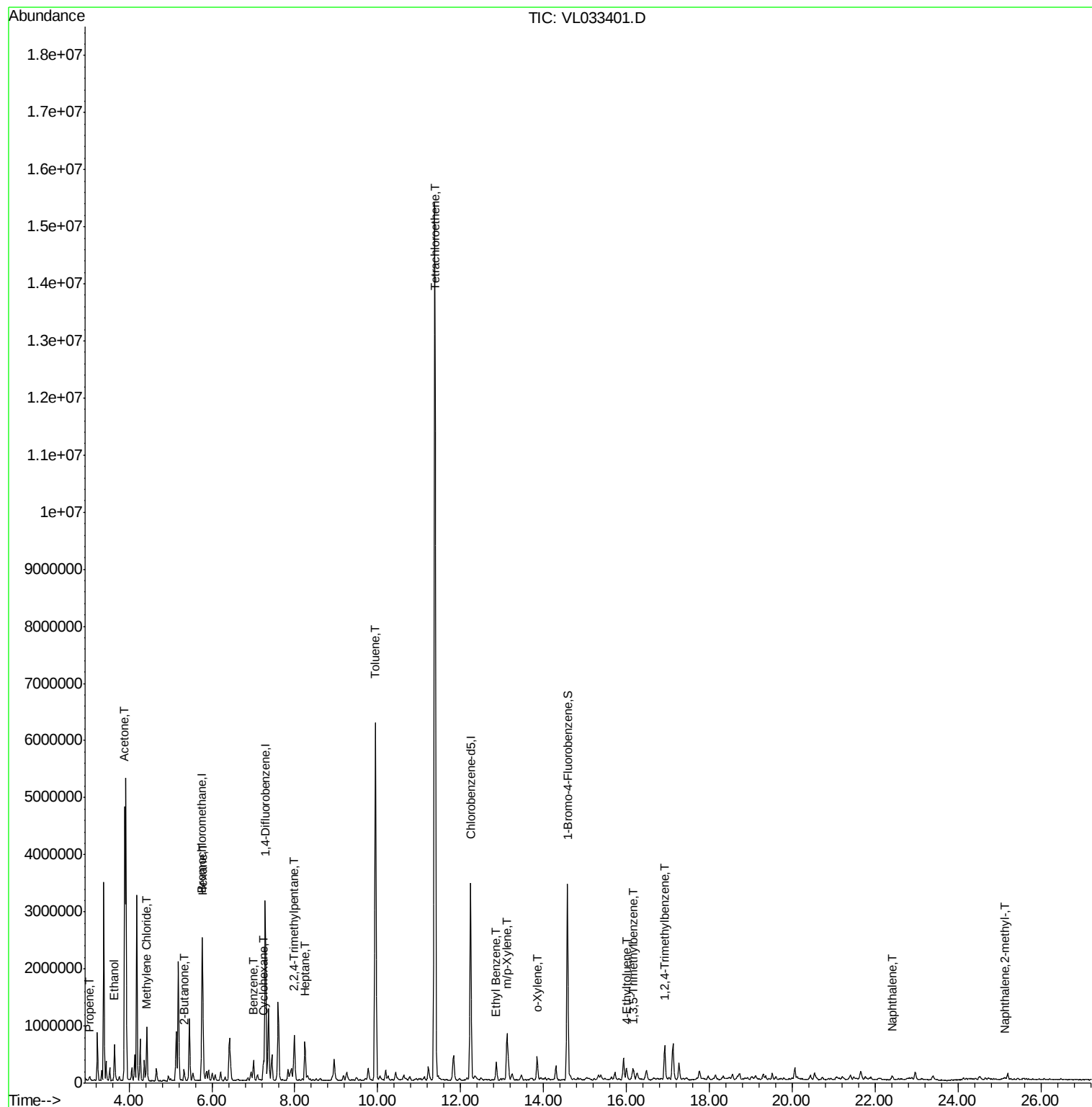
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL032019\
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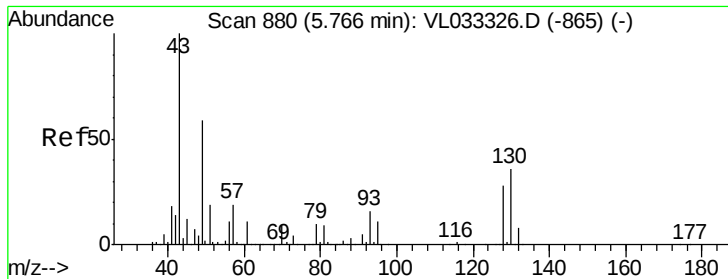
Instrument :
MSVOA_L
ClientSampled :
IA2DL

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Quant Time: Mar 22 06:03:35 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL031519AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Mar
QLast Update : Fri Mar 15 14:52:14 2019
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.76 min Scan# 878

Delta R.T. -0.01 min

Lab File: VL033401.D

Acq: 20 Mar 2019 22:24

Instrument :

MSVOA_L

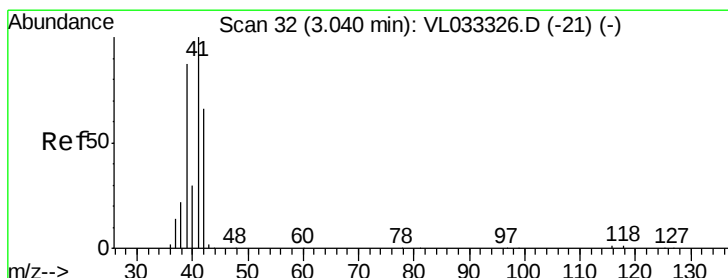
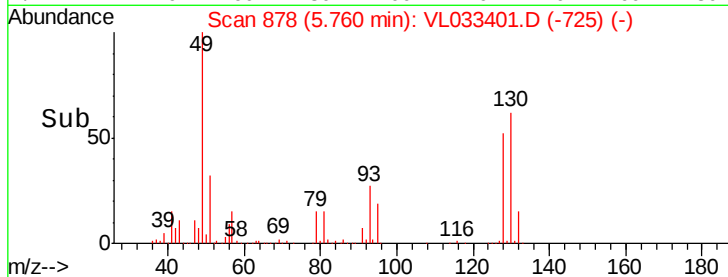
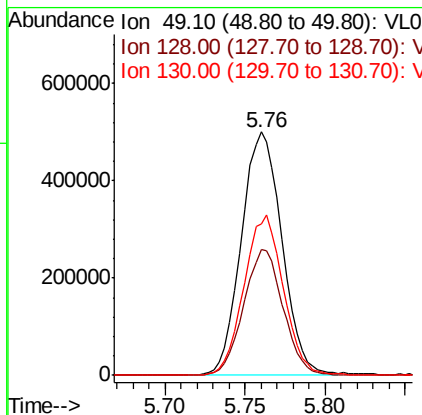
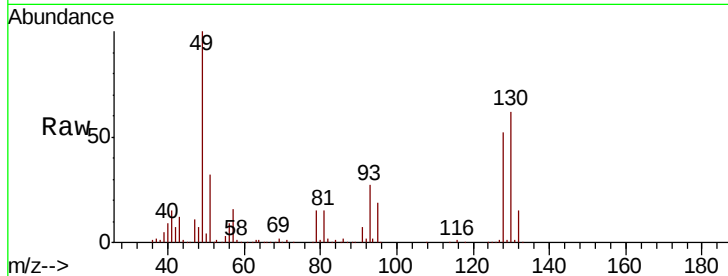
ClientSampleId :

IA2DL

Tot Ion	Ratio	Lower	Upper
49	100		
128	50.6	23.5	70.6
130	64.6	30.1	90.3

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#9

Propene

Concen: 0.345 ppbv m

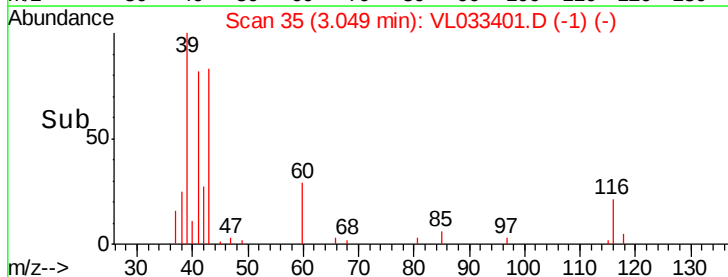
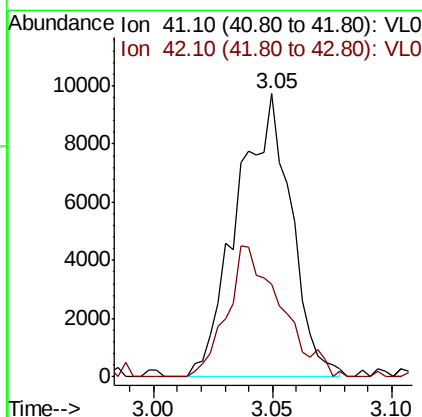
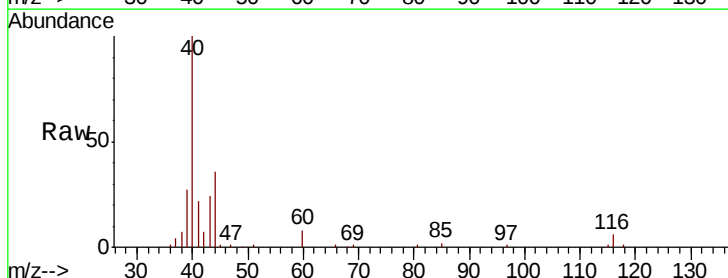
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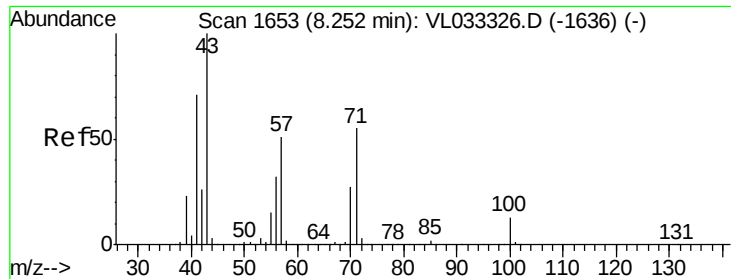
Delta R.T. 0.01 min

Lab File: VL033401.D

Acq: 20 Mar 2019 22:24

Tgt Ion	Ratio	Lower	Upper
41	100		
42	977.7	55.2	82.8#





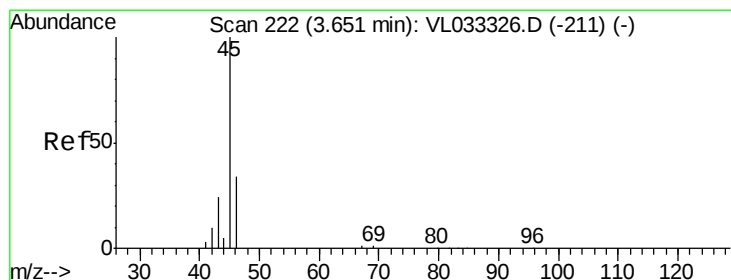
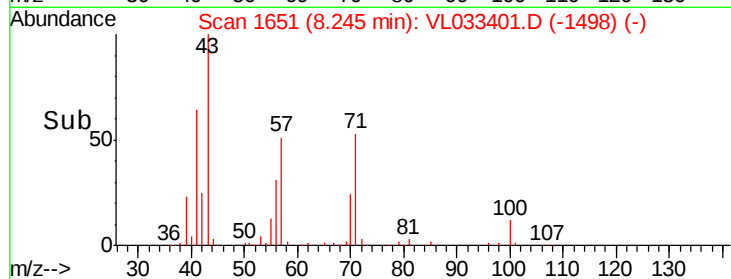
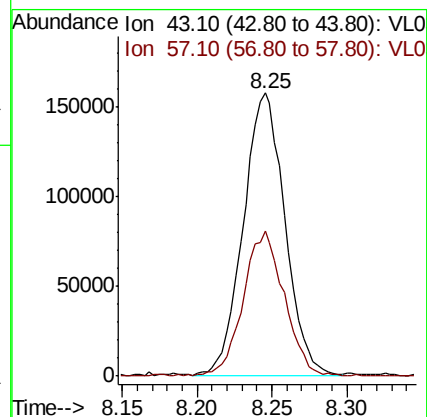
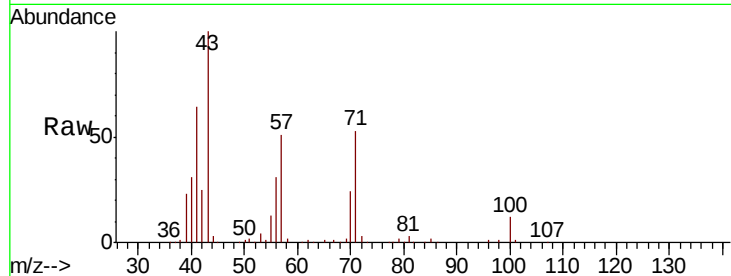
#10
Heptane
Concen: 2.754 ppbv
RT: 8.25 min Scan# 1651
Delta R.T. -0.01 min
Lab File: VL033401.D
Acq: 20 Mar 2019 22:24

Instrument :
MSVOA_L
ClientSampleId :
IA2DL

Tot Ion: 43 Resp: 303586
Ion Ratio Lower Upper
43 100
57 51.6 40.4 60.6

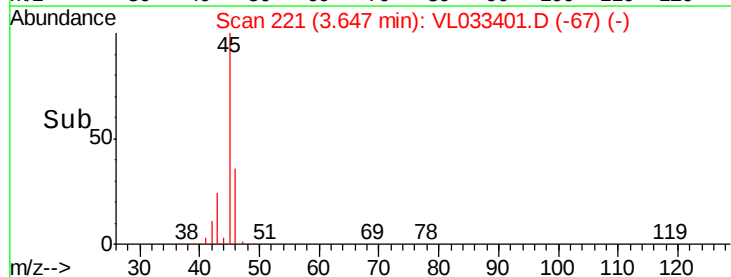
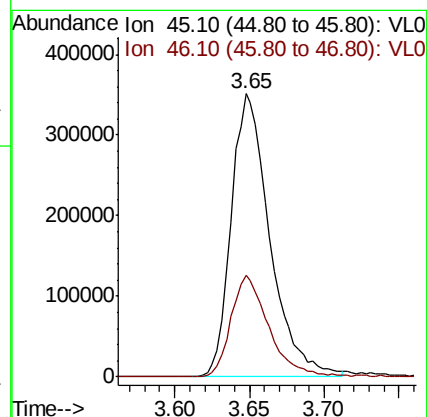
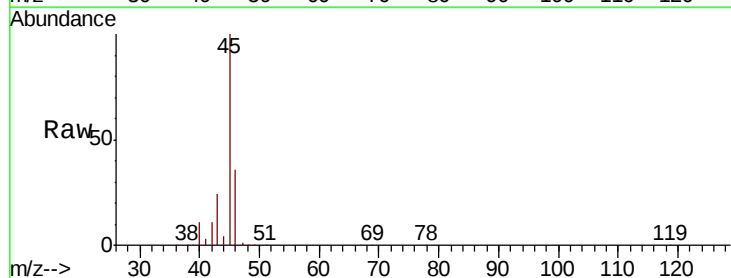
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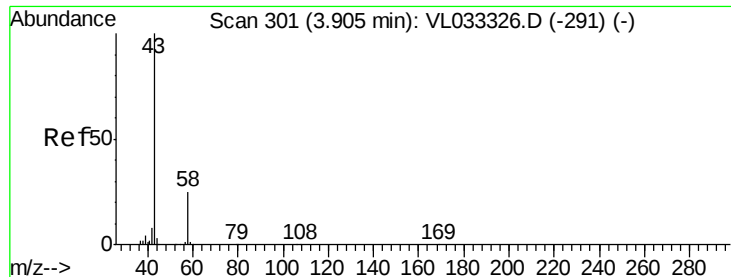
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#13
Ethanol
Concen: 29.834 ppbv
RT: 3.65 min Scan# 221
Delta R.T. -0.00 min
Lab File: VL033401.D
Acq: 20 Mar 2019 22:24

Tgt Ion: 45 Resp: 632063
Ion Ratio Lower Upper
45 100
46 35.7 14.9 59.7





#15

Acetone

Concen: 48.375 ppbv m

RT: 3.89 min Scan# 297

Delta R.T. -0.01 min

Lab File: VL033401.D

Acq: 20 Mar 2019 22:24

Tot Ion: 43 Resp: 6522370

Ion Ratio Lower Upper

43 100

58 21.4 20.4 30.6

Instrument :

MSVOA_L

ClientSampleId :

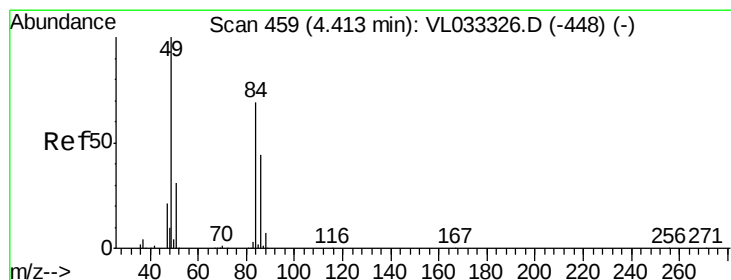
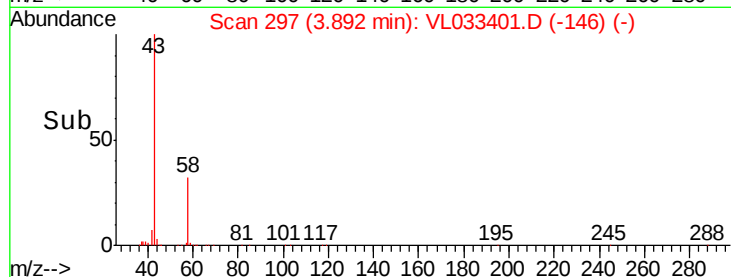
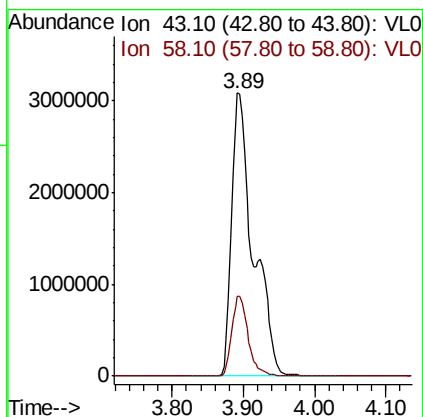
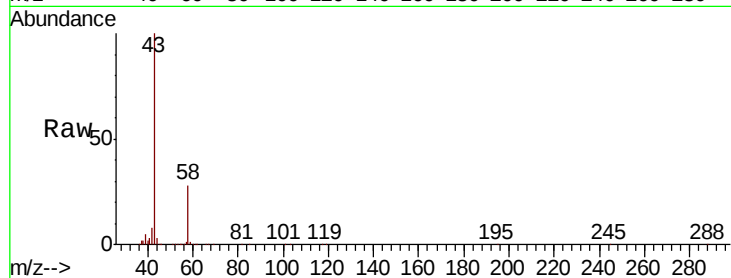
IA2DL

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#20

Methylene Chloride

Concen: 0.818 ppbv

RT: 4.41 min Scan# 458

Delta R.T. -0.00 min

Lab File: VL033401.D

Acq: 20 Mar 2019 22:24

Tgt Ion: 84 Resp: 35972

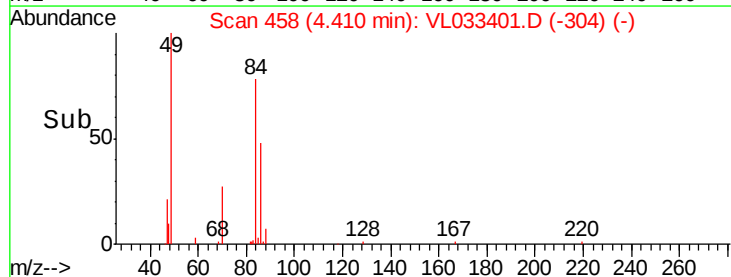
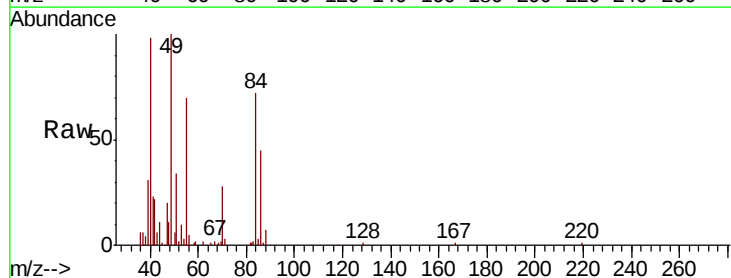
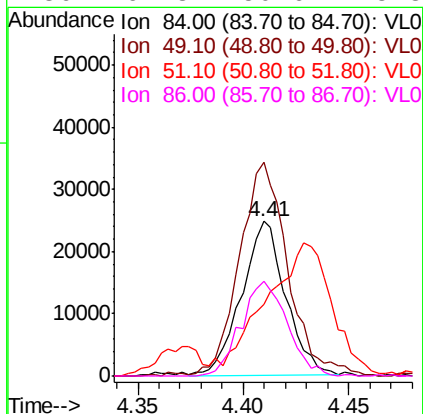
Ion Ratio Lower Upper

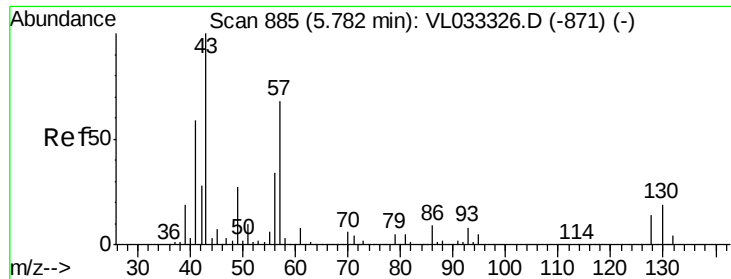
84 100

49 138.7 115.4 173.0

51 28.2 35.8 53.6#

86 62.3 50.6 75.8





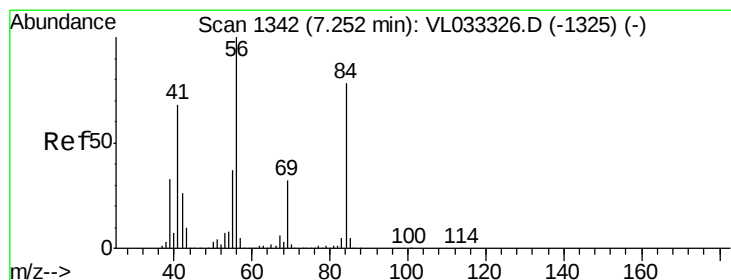
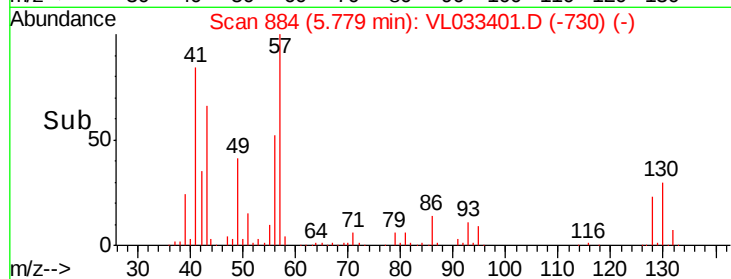
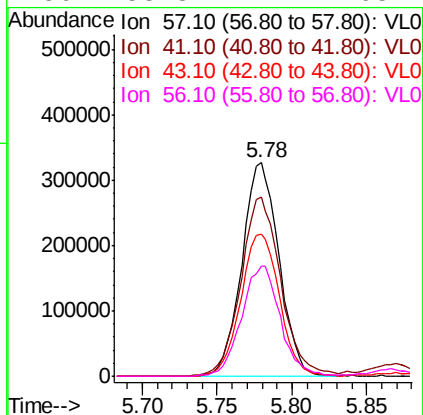
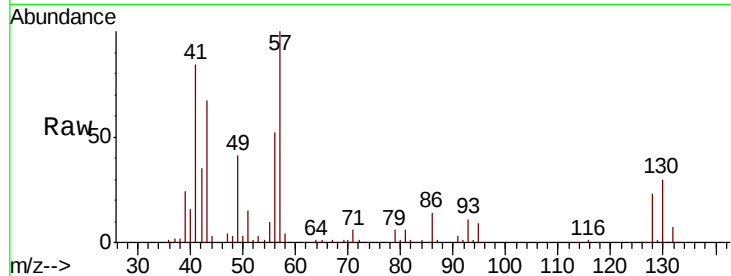
#26
Hexane
Concen: 6.411 ppbv
RT: 5.78 min Scan# 884
Delta R.T. -0.00 min
Lab File: VL033401.D
Acq: 20 Mar 2019 22:24

Instrument :
MSVOA_L
ClientSampled :
IA2DL

Tot Ion	Ratio	Lower	Upper
57	100		
41	90.6	70.5	105.7
43	69.9	181.8	272.8#
56	53.8	42.2	63.2

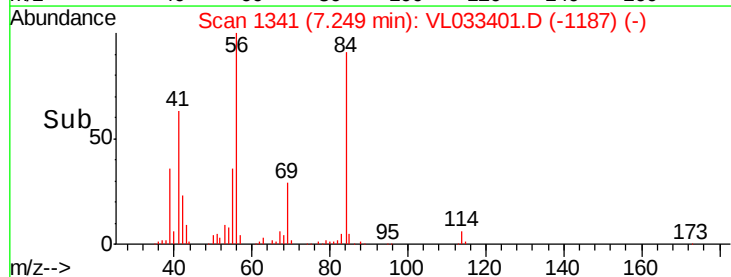
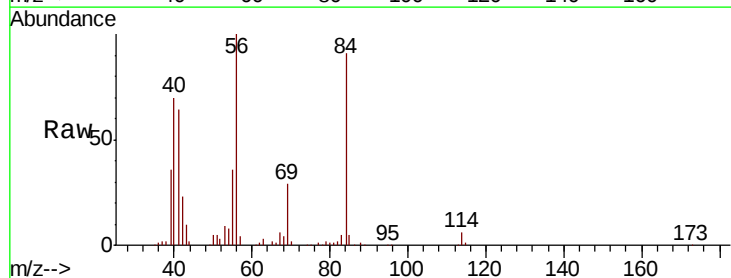
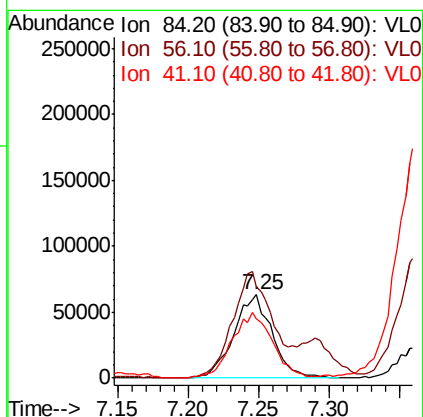
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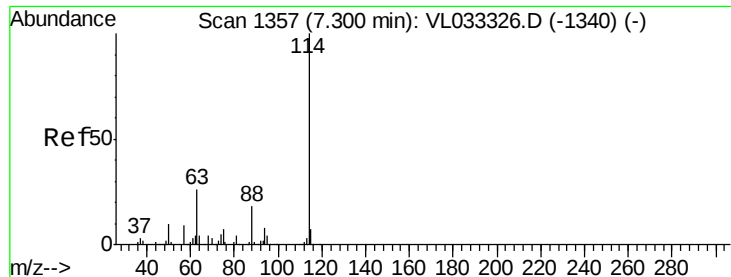
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#30
Cyclohexane
Concen: 1.710 ppbv
RT: 7.25 min Scan# 1341
Delta R.T. -0.00 min
Lab File: VL033401.D
Acq: 20 Mar 2019 22:24

Tgt Ion	Ratio	Lower	Upper
84	100		
56	175.9	111.3	166.9#
41	81.1	69.6	104.4





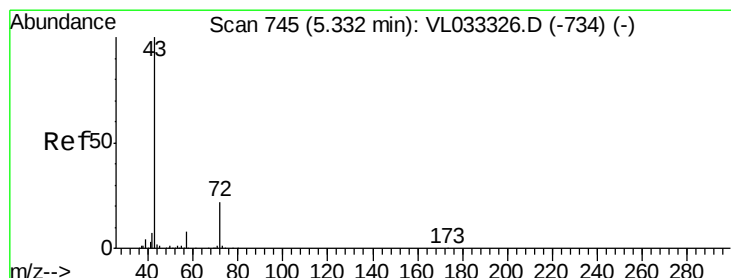
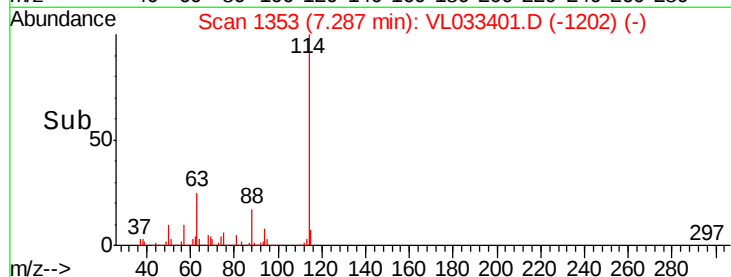
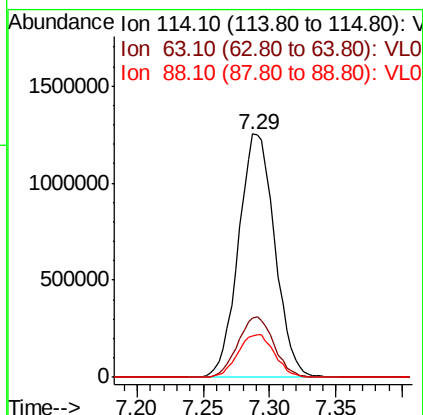
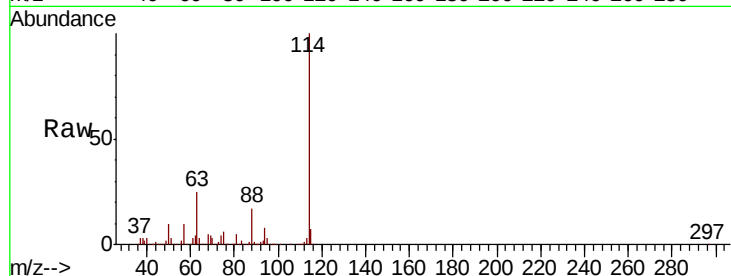
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.29 min Scan# 1353
 Delta R.T. -0.01 min
 Lab File: VL033401.D
 Acq: 20 Mar 2019 22:24

Instrument :
 MSVOA_L
 ClientSampleId :
 IA2DL

Tot Ion	Ratio	Lower	Upper
114	100		
63	24.9	21.4	32.2
88	17.9	14.5	21.7

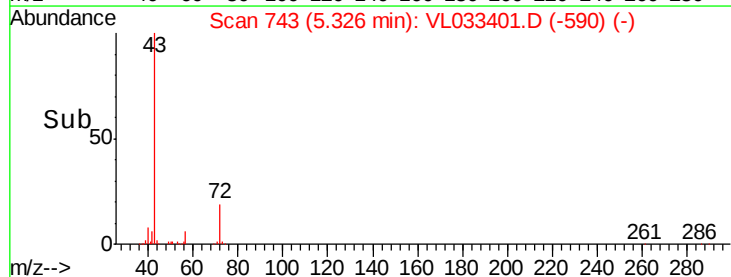
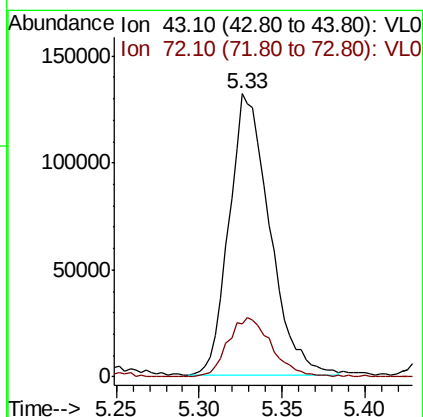
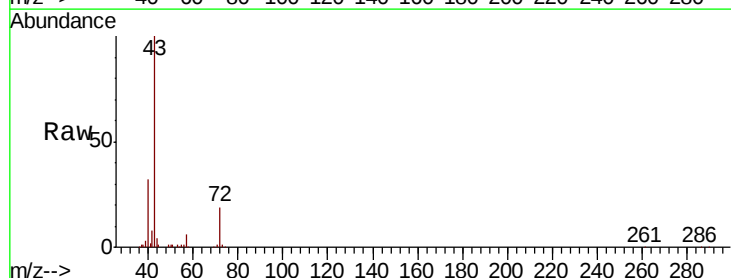
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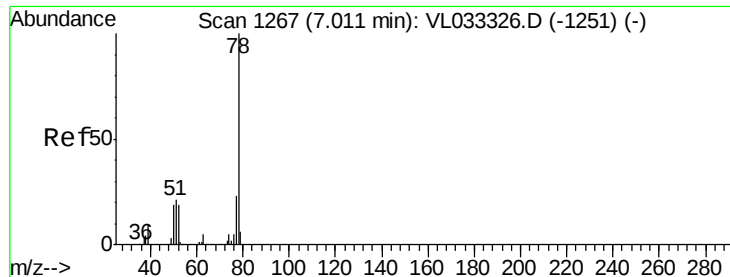
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#34
 2-Butanone
 Concen: 1.424 ppbv
 RT: 5.33 min Scan# 743
 Delta R.T. -0.01 min
 Lab File: VL033401.D
 Acq: 20 Mar 2019 22:24

Tgt Ion	Ratio	Lower	Upper
43	100		
72	23.0	17.7	26.5





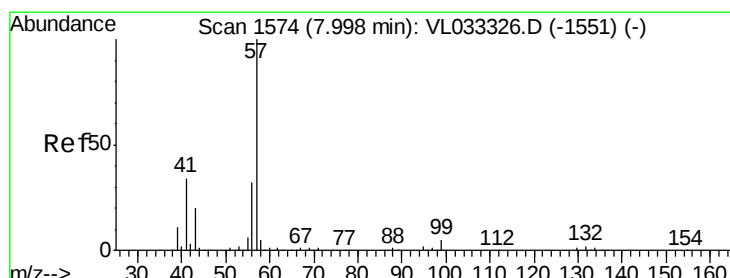
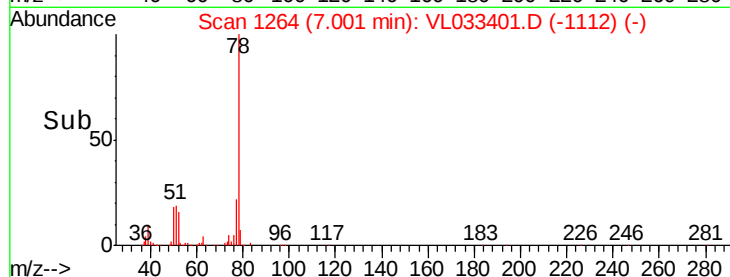
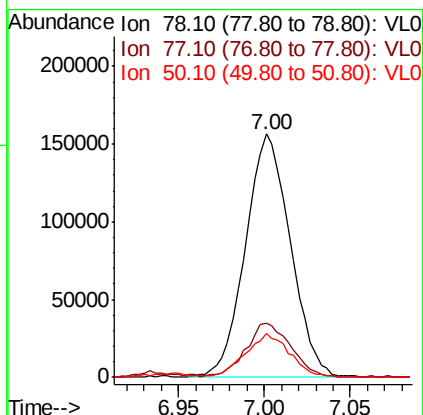
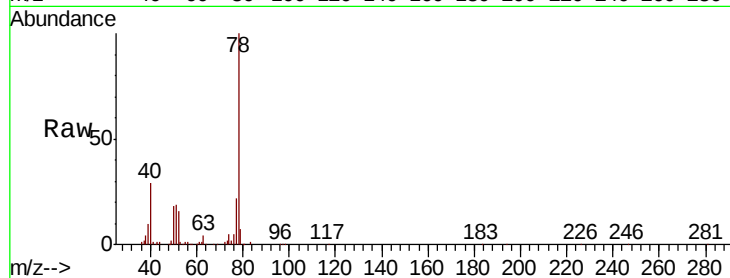
#36
Benzene
Concen: 1.332 ppbv
RT: 7.00 min Scan# 1264
Delta R.T. -0.01 min
Lab File: VL033401.D
Acq: 20 Mar 2019 22:24

Instrument :
MSVOA_L
ClientSampleId :
IA2DL

Tot Ion	Ratio	Lower	Upper
78	100		
77	21.8	18.1	27.1
50	17.6	15.2	22.8

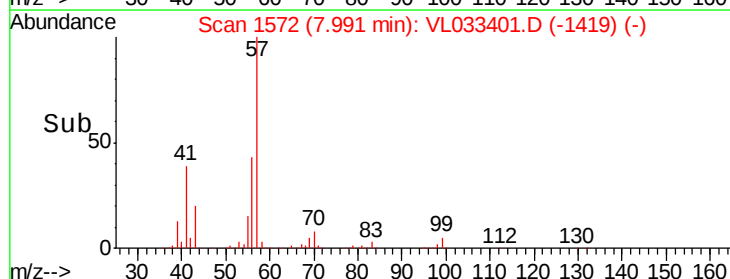
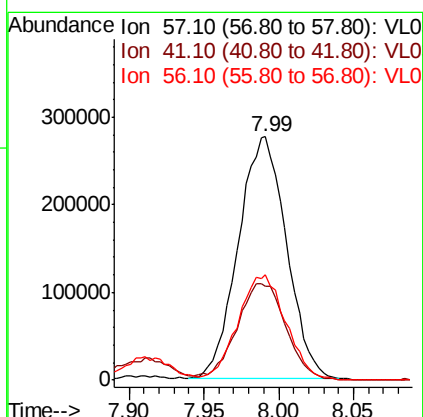
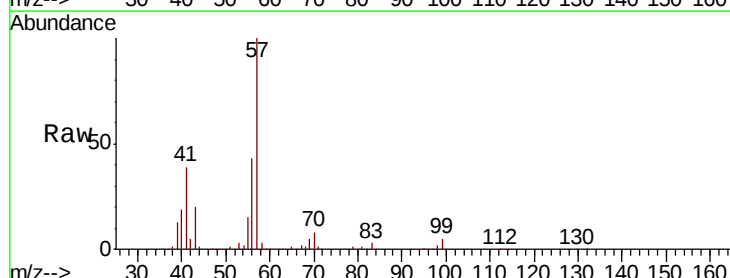
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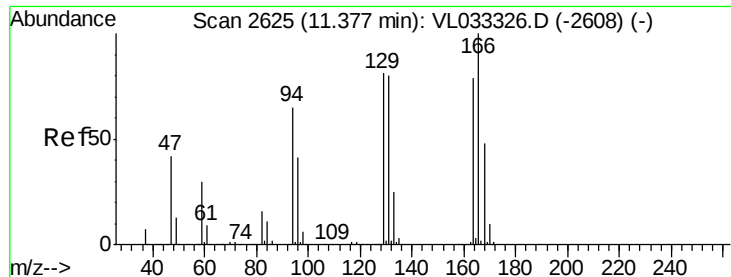
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#44
2,2,4-Trimethylpentane
Concen: 1.758 ppbv
RT: 7.99 min Scan# 1572
Delta R.T. -0.01 min
Lab File: VL033401.D
Acq: 20 Mar 2019 22:24

Tgt Ion	Ratio	Lower	Upper
57	100		
41	40.5	26.0	39.0#
56	43.3	24.6	36.8#





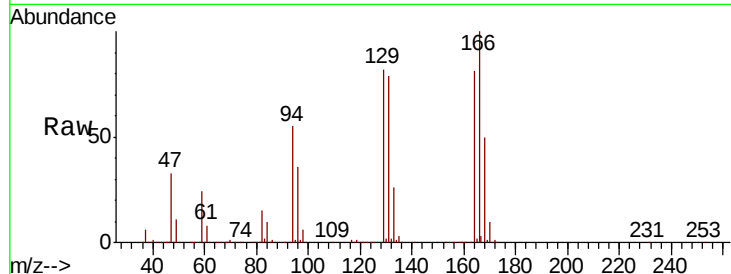
#52
Tetrachloroethene
Concen: 49.668 ppbv
RT: 11.38 min Scan# 2625
Delta R.T. -0.00 min
Lab File: VL033401.D
Acq: 20 Mar 2019 22:24

Instrument :
MSVOA_L
ClientSampleId :
IA2DL

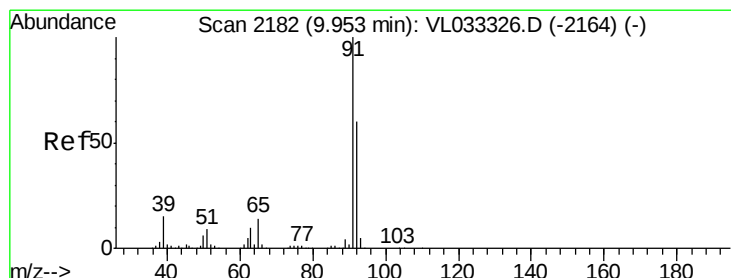
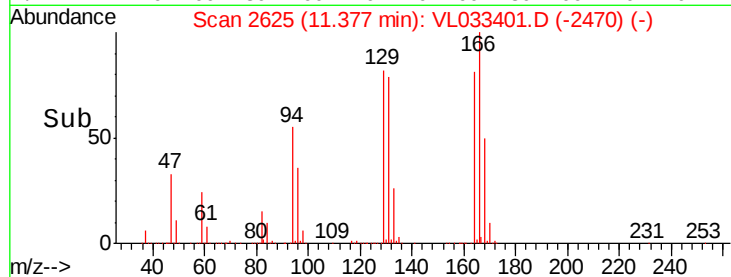
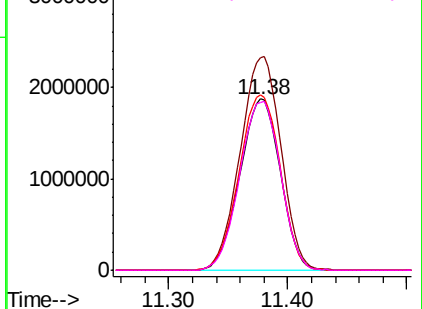
Tot Ion:164 Resp: 4406245
Ion Ratio Lower Upper
164 100
166 124.0 101.5 152.3
129 102.2 82.2 123.2
131 98.1 81.1 121.7

Manual Integrations
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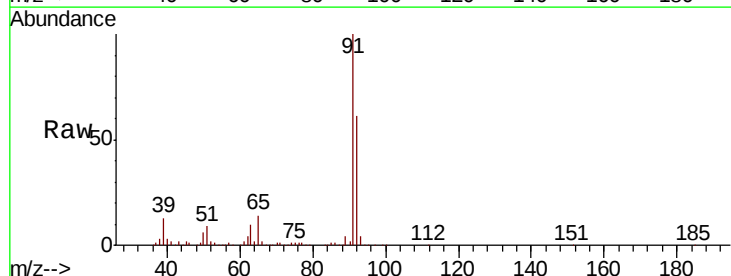


Abundance Ion 163.90 (163.60 to 164.60): V
Ion 165.90 (165.60 to 166.60): V
Ion 129.00 (128.70 to 129.70): V
Ion 131.00 (130.70 to 131.70): V

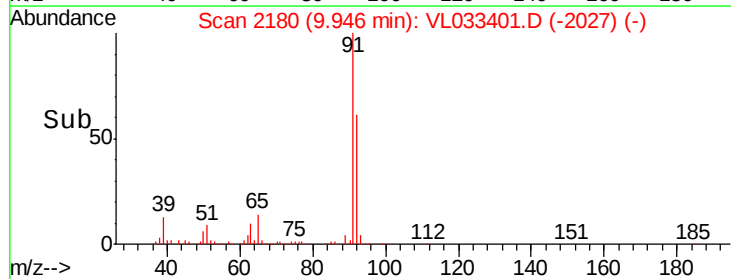
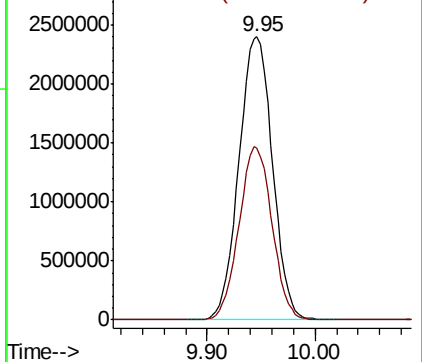


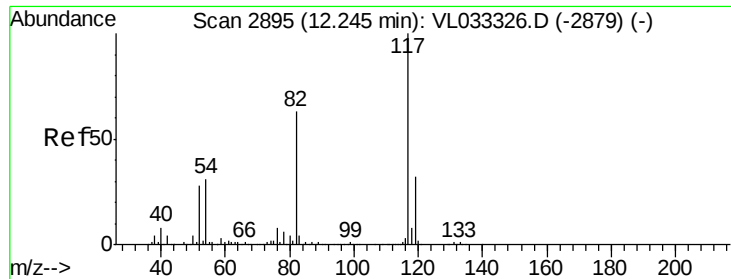
#53
Toluene
Concen: 21.470 ppbv
RT: 9.95 min Scan# 2180
Delta R.T. -0.01 min
Lab File: VL033401.D
Acq: 20 Mar 2019 22:24

Tgt Ion: 91 Resp: 5195146
Ion Ratio Lower Upper
91 100
92 60.4 47.4 71.0



Abundance Ion 91.10 (90.80 to 91.80): VL0
Ion 92.10 (91.80 to 92.80): VL0





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.24 min Scan# 2893

Delta R.T. -0.01 min

Lab File: VL033401.D

Acq: 20 Mar 2019 22:24

Instrument :

MSVOA_L

ClientSampled :

IA2DL

Tot Ion:117 Resp: 2270364

Ion Ratio Lower Upper

117 100

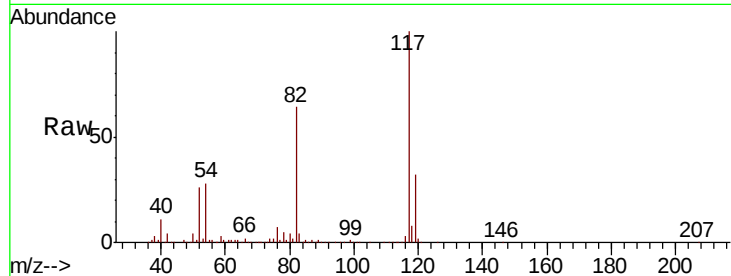
82 63.0 53.4 80.2

119 32.2 27.3 40.9

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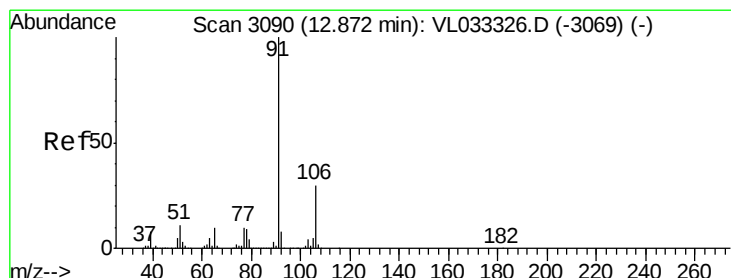
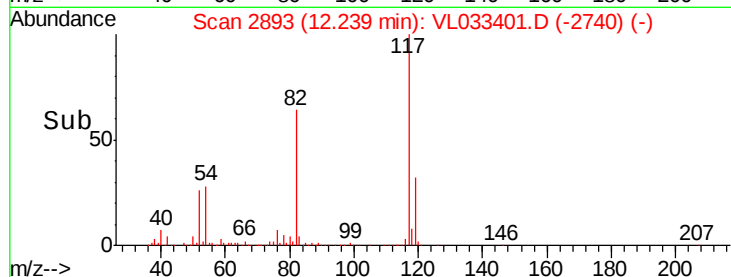
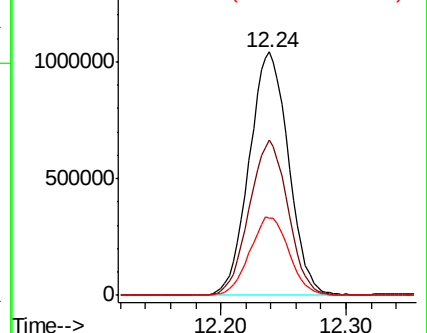
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Abundance Ion 117.10 (116.80 to 117.80): V

Ion 82.10 (81.80 to 82.80): VL0

Ion 119.10 (118.80 to 119.80): V



#58

Ethyl Benzene

Concen: 0.871 ppbv

RT: 12.86 min Scan# 3086

Delta R.T. -0.01 min

Lab File: VL033401.D

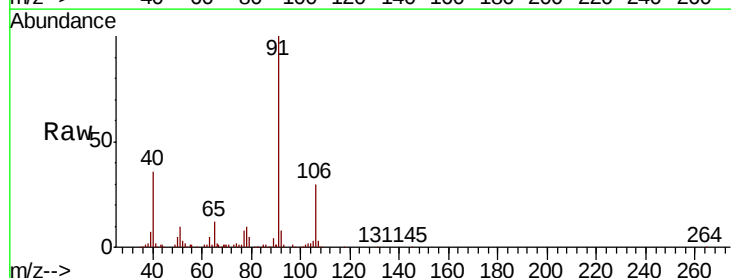
Acq: 20 Mar 2019 22:24

Tgt Ion: 91 Resp: 279757

Ion Ratio Lower Upper

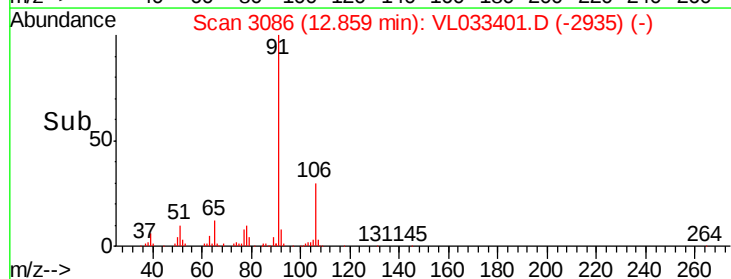
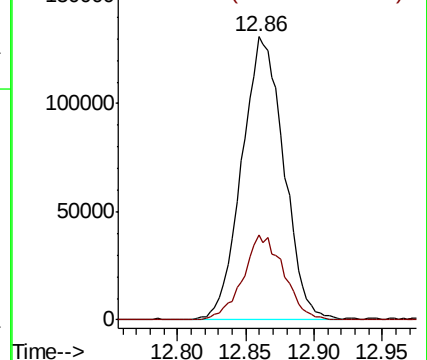
91 100

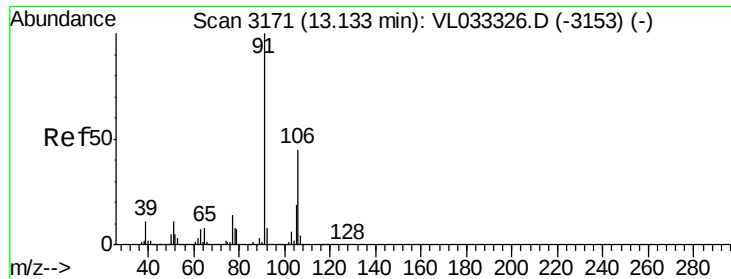
106 29.9 24.2 36.2



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V





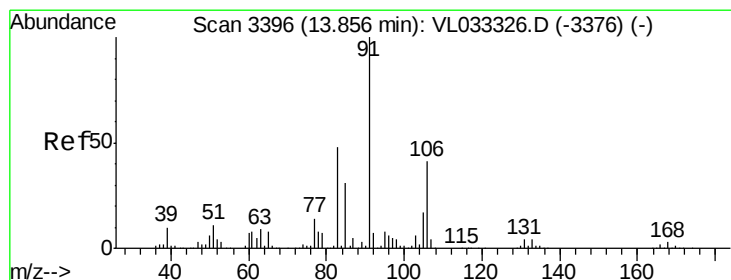
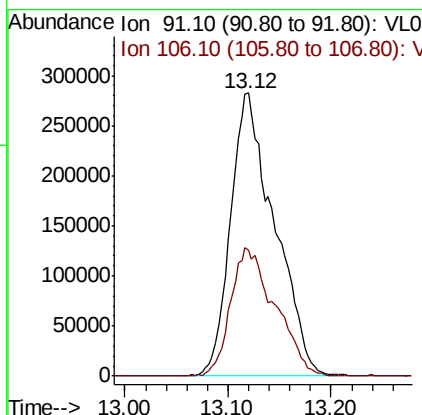
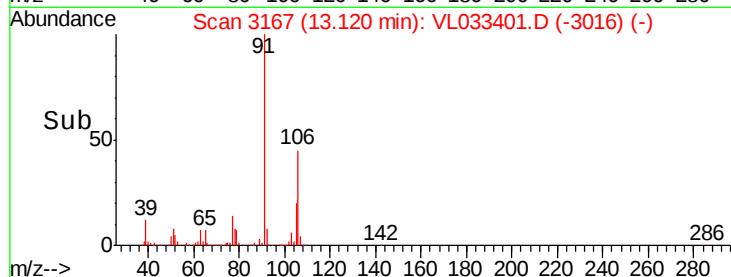
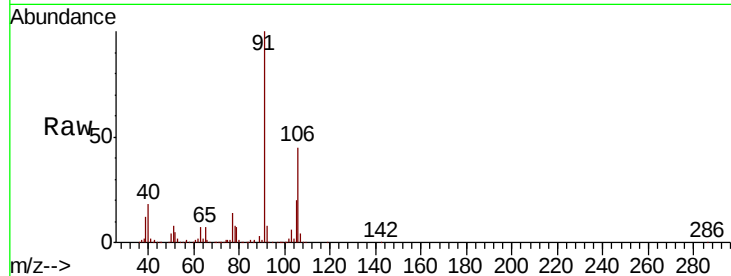
#59
m/p-Xylene
Concen: 3.021 ppbv
RT: 13.12 min Scan# 3167
Delta R.T. -0.01 min
Lab File: VL033401.D
Acq: 20 Mar 2019 22:24

Instrument :
MSVOA_L
ClientSampled :
IA2DL

Tot Ion: 91 Resp: 833970
Ion Ratio Lower Upper
91 100
106 46.2 0.0 0.0#

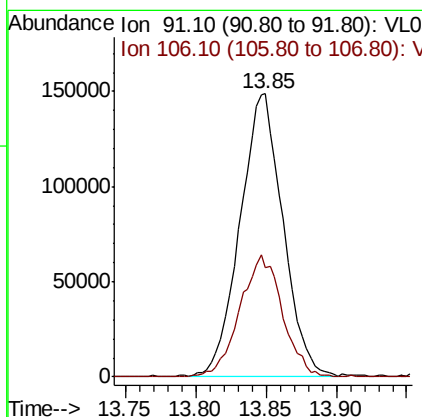
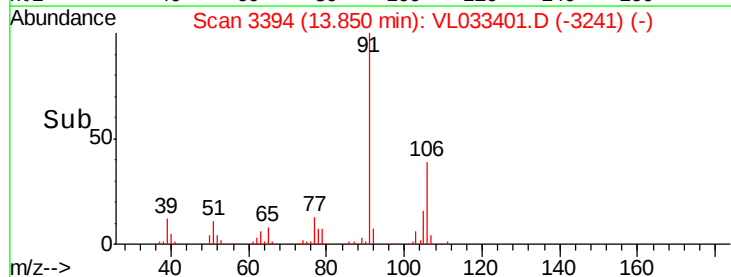
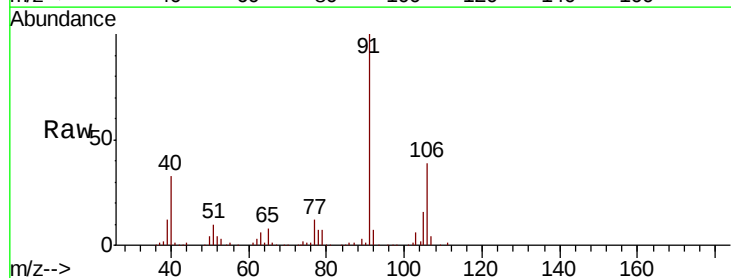
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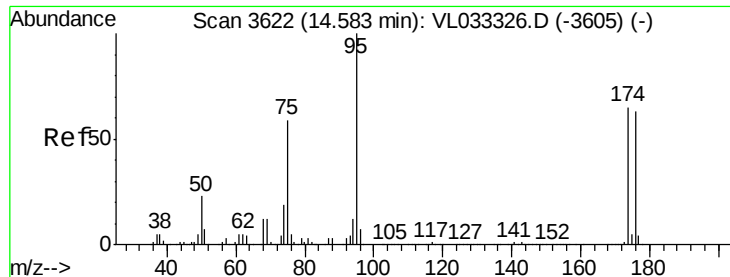
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#60
o-Xylene
Concen: 1.170 ppbv
RT: 13.85 min Scan# 3394
Delta R.T. -0.01 min
Lab File: VL033401.D
Acq: 20 Mar 2019 22:24

Tgt Ion: 91 Resp: 315081
Ion Ratio Lower Upper
91 100
106 43.1 21.3 63.9





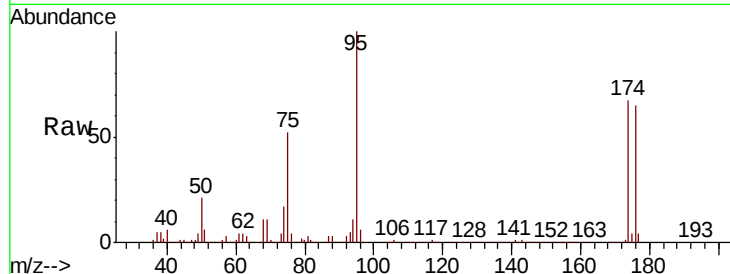
#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.003 ppbv
 RT: 14.58 min Scan# 3620
 Delta R.T. -0.01 min
 Lab File: VL033401.D
 Acq: 20 Mar 2019 22:24

Instrument :
 MSVOA_L
 ClientSampled :
 IA2DL

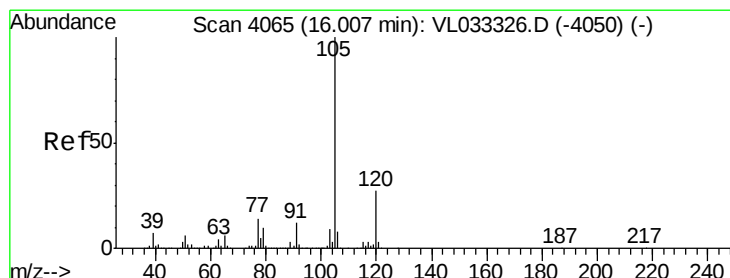
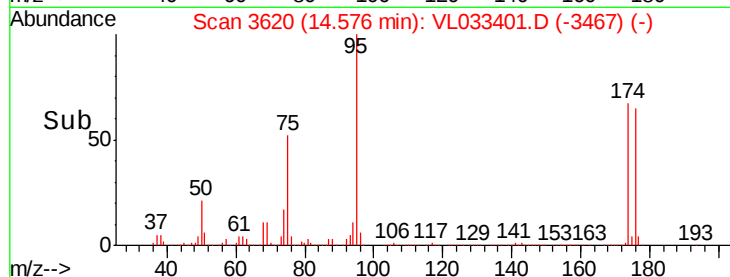
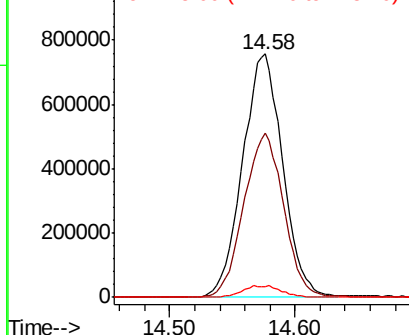
Tot Ion: 95 Resp: 1682926
 Ion Ratio Lower Upper
 95 100
 174 67.5 51.5 77.3
 175 4.9 3.8 5.6

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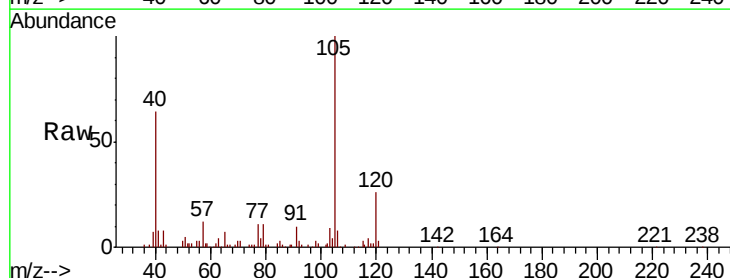


Abundance Ion 95.10 (94.80 to 95.80): VL0
 Ion 174.00 (173.70 to 174.70): V
 Ion 175.00 (174.70 to 175.70): V

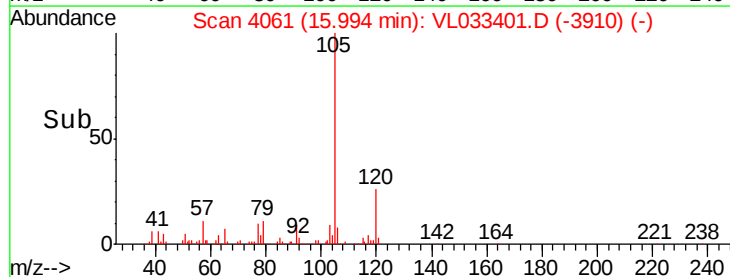
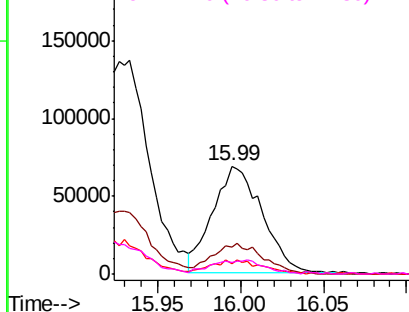


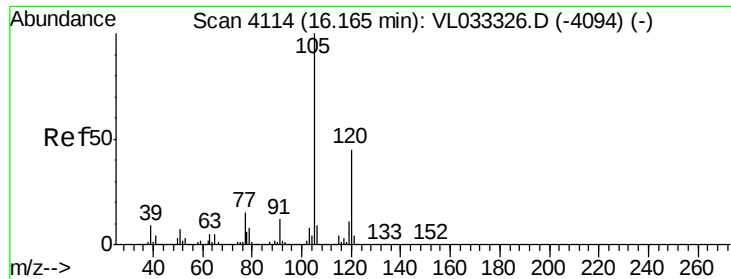
#72
 4-Ethyltoluene
 Concen: 0.465 ppbv
 RT: 15.99 min Scan# 4061
 Delta R.T. -0.01 min
 Lab File: VL033401.D
 Acq: 20 Mar 2019 22:24

Tgt Ion: 105 Resp: 142049
 Ion Ratio Lower Upper
 105 100
 120 29.3 22.9 34.3
 91 14.6 10.2 15.2
 77 15.3 11.1 16.7



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





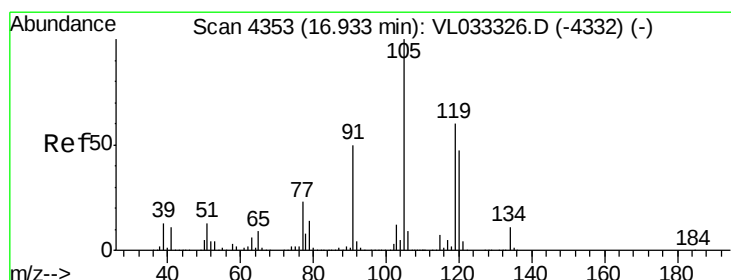
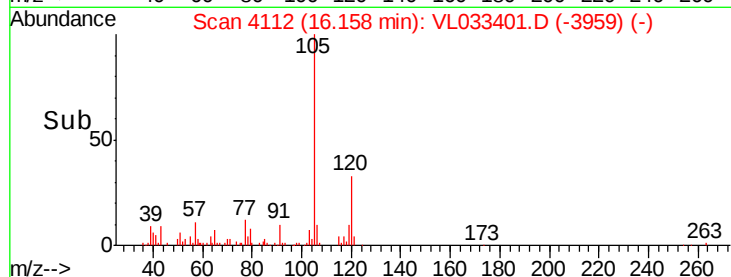
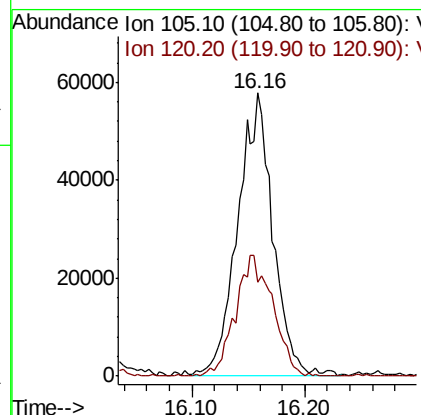
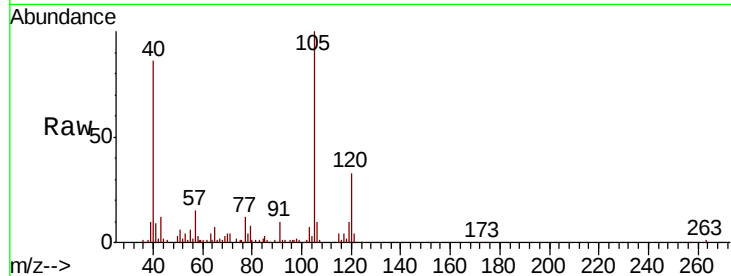
#73
 1,3,5-Trimethylbenzene
 Concen: 0.418 ppbv m
 RT: 16.16 min Scan# 4112
 Delta R.T. -0.01 min
 Lab File: VL033401.D
 Acq: 20 Mar 2019 22:24

Instrument :
 MSVOA_L
 ClientSampleId :
 IA2DL

Tot Ion	Ratio	Lower	Upper
105	100		
120	33.1	36.2	54.4#

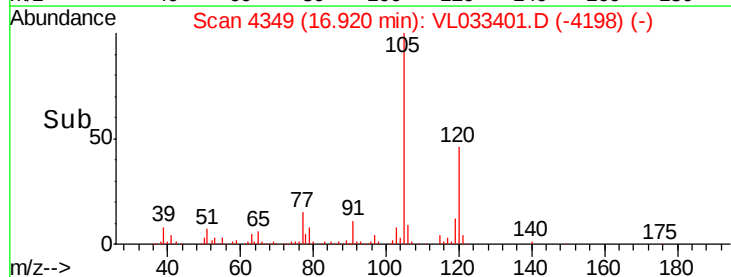
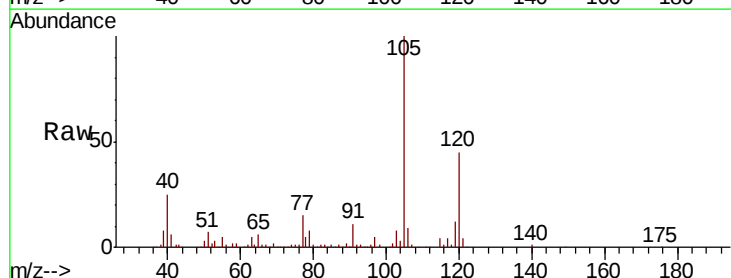
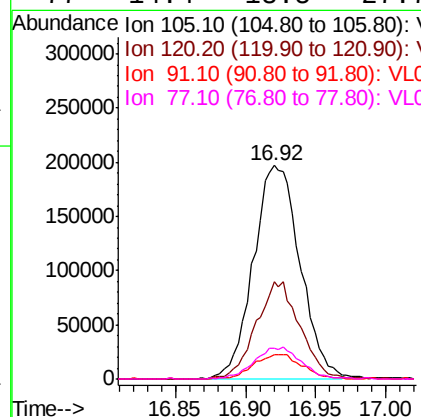
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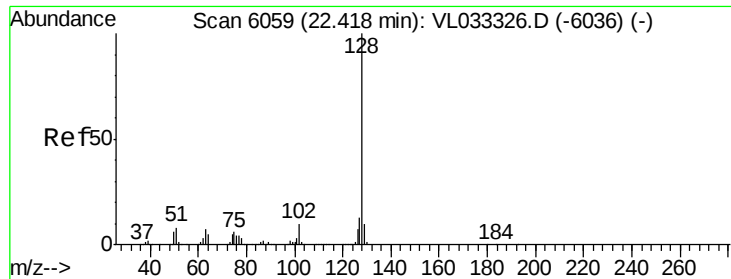
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#74
 1,2,4-Trimethylbenzene
 Concen: 1.445 ppbv
 RT: 16.92 min Scan# 4349
 Delta R.T. -0.01 min
 Lab File: VL033401.D
 Acq: 20 Mar 2019 22:24

Tgt Ion	Ratio	Lower	Upper
105	100		
120	45.5	37.4	56.2
91	11.1	41.0	61.4#
77	14.4	18.5	27.7#





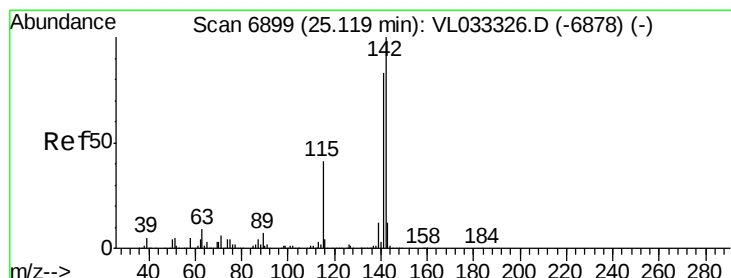
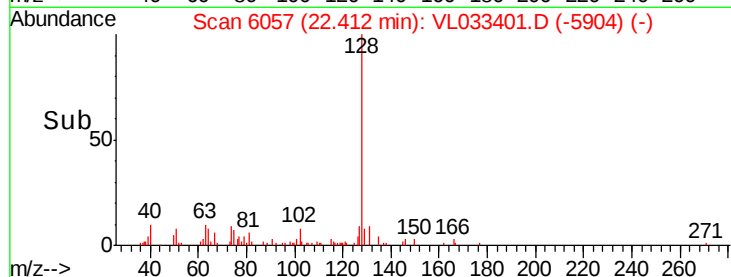
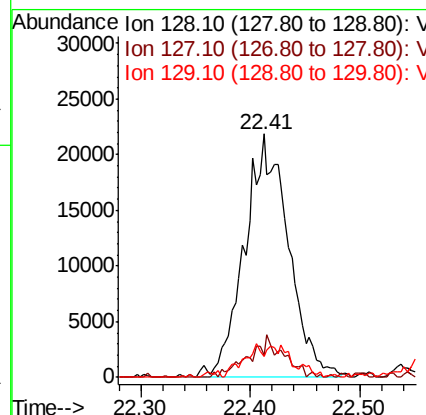
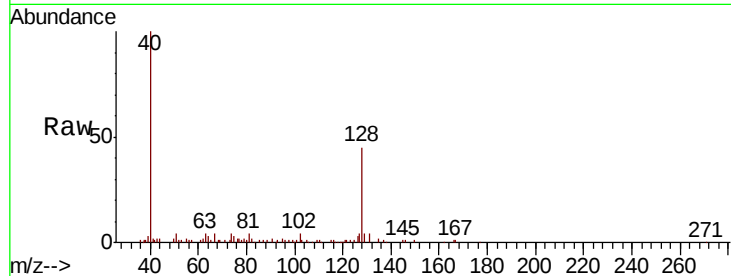
#79
Naphthalene
Concen: 0.200 ppbv m
RT: 22.41 min Scan# 6057
Delta R.T. -0.01 min
Lab File: VL033401.D
Acq: 20 Mar 2019 22:24

Instrument :
MSVOA_L
ClientSampled :
IA2DL

Tot Ion	Ratio	Lower	Upper
128	100		
127	9.1	10.1	15.1#
129	8.5	8.2	12.2

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#80
Naphthalene, 2-methyl-
Concen: 0.088 ppbv
RT: 25.12 min Scan# 6898
Delta R.T. -0.00 min
Lab File: VL033401.D
Acq: 20 Mar 2019 22:24

Tgt Ion	Ratio	Lower	Upper
142	100		
141	87.8	67.1	100.7
115	67.2	33.8	50.6#

