

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL062619\
 Data File : VL033980.D
 Acq On : 26 Jun 2019 23:14
 Operator : SY/AP
 Sample : K3538-01DL 10X
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SUB-SLABDL

Manual Integrations
 APPROVED

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 6/27/2019 3:02:03 PM

Quant Time: Jun 27 07:04:21 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL060719AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Jun 0
 QLast Update : Fri Jun 07 08:53:27 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.73	49	903628	10.00	ppbv	-0.02
33) 1,4-Difluorobenzene	7.26	114	2110900	10.00	ppbv	-0.02
55) Chlorobenzene-d5	12.21	117	2111018	10.00	ppbv	-0.02

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.54	95	1785733	10.30	ppbv	-0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	103.00%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
9) Propene	3.03	41	22060m	0.554	ppbv	
13) Ethanol	3.65	45	22952	1.772	ppbv	91
15) Acetone	3.90	43	159009	1.207	ppbv #	81
17) tert-Butyl alcohol	4.38	59	13454m	0.131	ppbv	
20) Methylene Chloride	4.39	84	12855	0.250	ppbv	89
26) Hexane	5.75	57	10657m	0.117	ppbv	
34) 2-Butanone	5.33	43	12144m	0.102	ppbv	
53) Toluene	9.92	91	35371	0.198	ppbv	96
59) m/p-Xylene	13.09	91	30906m	0.143	ppbv	

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

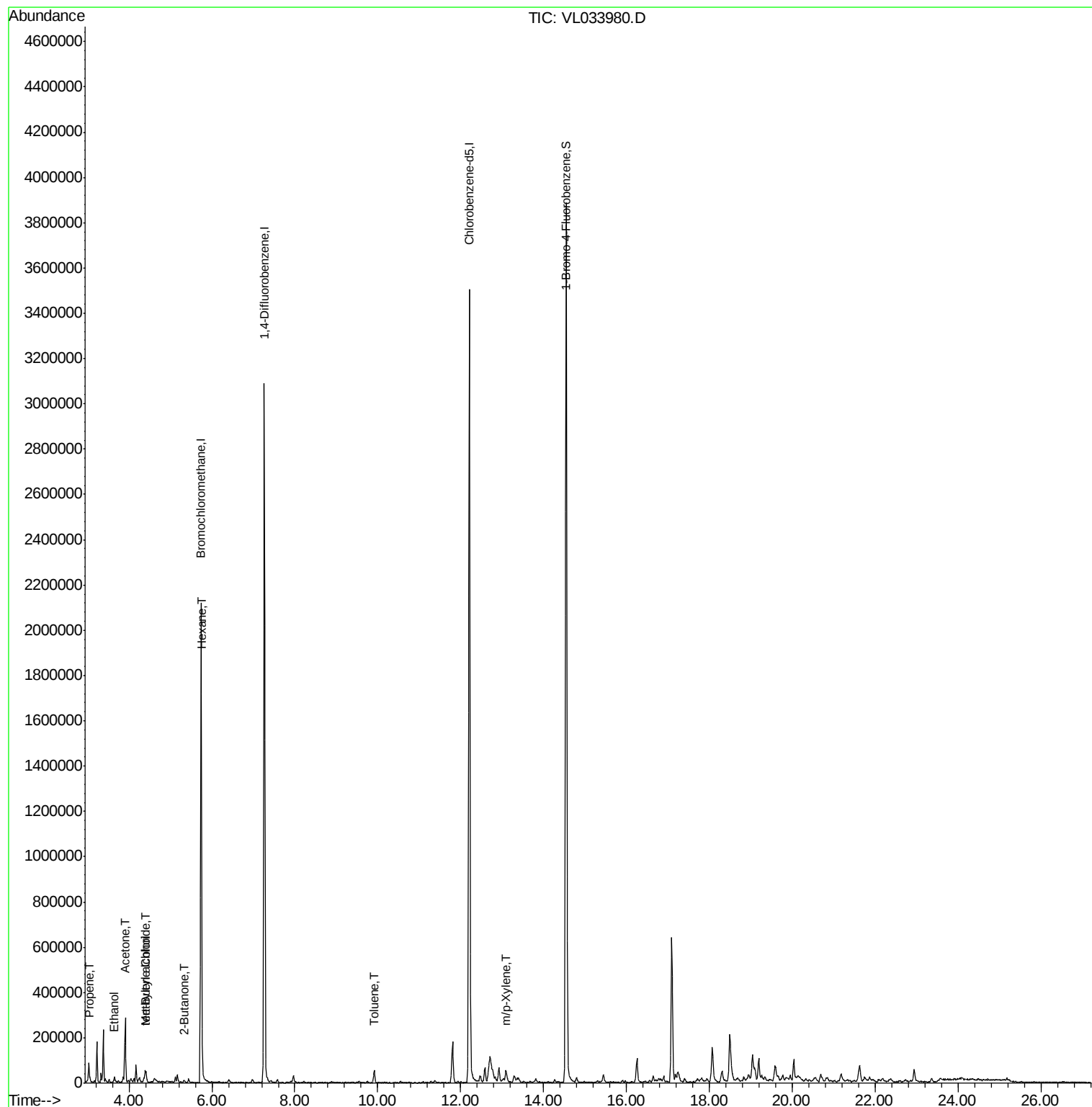
Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL062619\
Data File : VL033980.D
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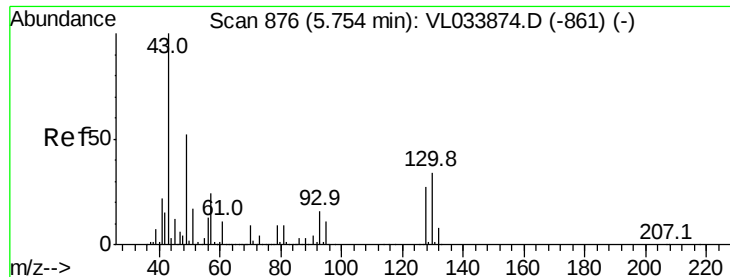
Instrument :
MSVOA_L
ClientSampleId :
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Quant Time: Jun 27 07:04:21 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL060719AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Jun
QLast Update : Fri Jun 07 08:53:27 2019
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.73 min Scan# 870

Delta R.T. -0.02 min

Lab File: VL033980.D

Acq: 26 Jun 2019 23:14

Instrument :

MSVOA_L

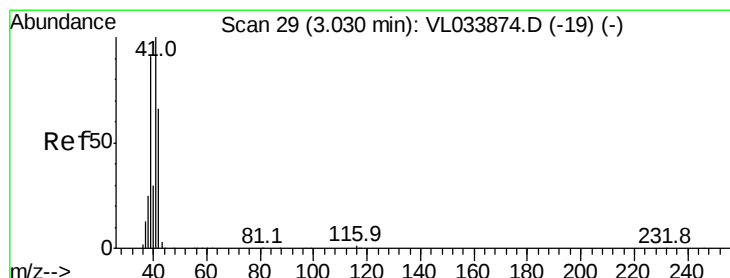
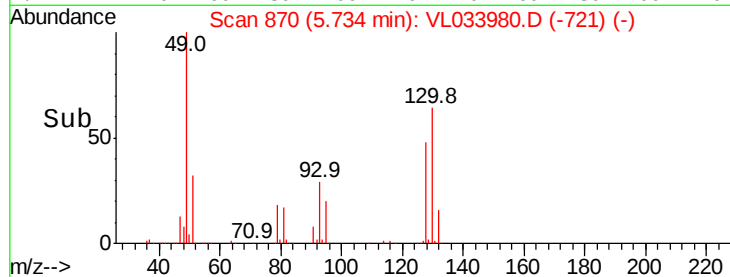
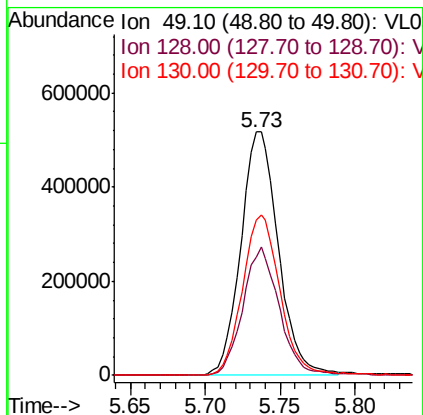
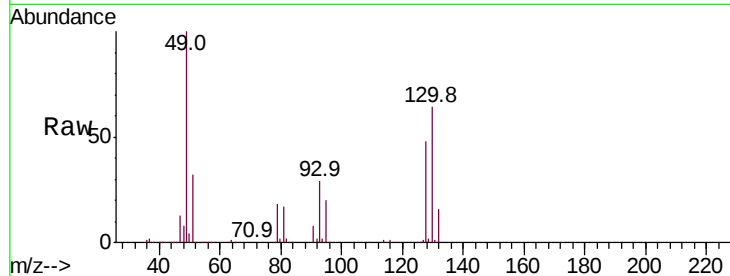
ClientSampleId :

SUB-SLABDL

Tot Ion:	49	Resp:	903628
Ion Ratio	Lower	Upper	
49	100		
128	51.6	25.5	76.5
130	66.6	32.5	97.4

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#9

Propene

Concen: 0.554 ppbv m

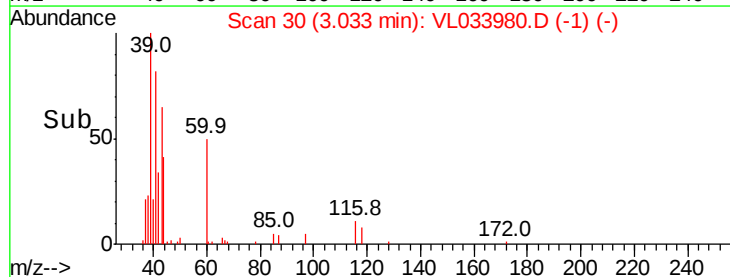
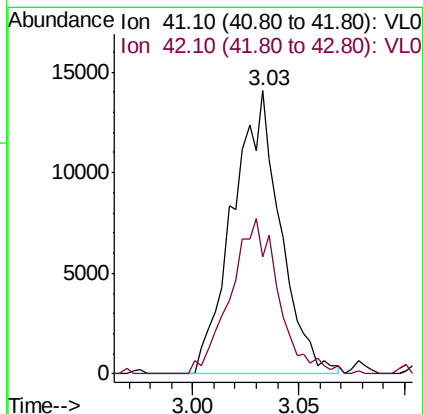
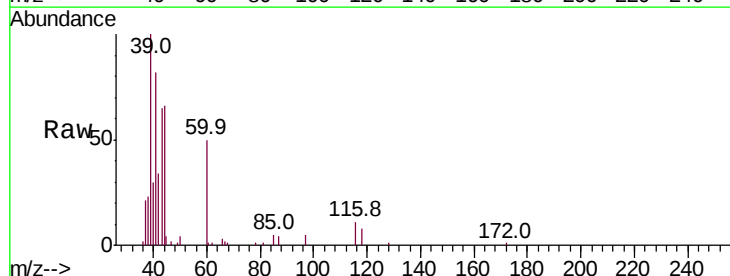
RT: 3.03 min Scan# 30

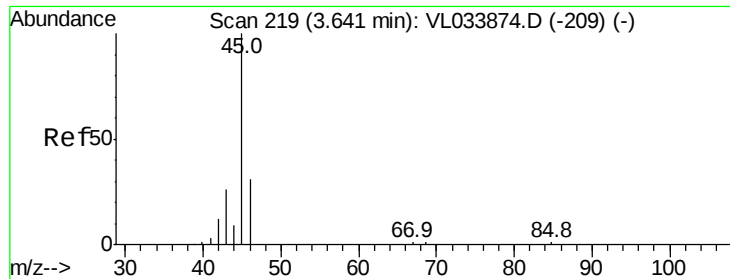
Delta R.T. 0.00 min

Lab File: VL033980.D

Acq: 26 Jun 2019 23:14

Tgt Ion:	41	Resp:	22060
Ion Ratio	Lower	Upper	
41	100		
42	135.1	56.3	84.5#





#13

Ethanol

Concen: 1.772 ppbv

RT: 3.65 min Scan# 222

Delta R.T. 0.01 min

Lab File: VL033980.D

Acq: 26 Jun 2019 23:14

Instrument :

MSVOA_L

ClientSampleId :

SUB-SLABDL

Tot Ion: 45 Resp: 22952

Ion Ratio Lower Upper

45 100

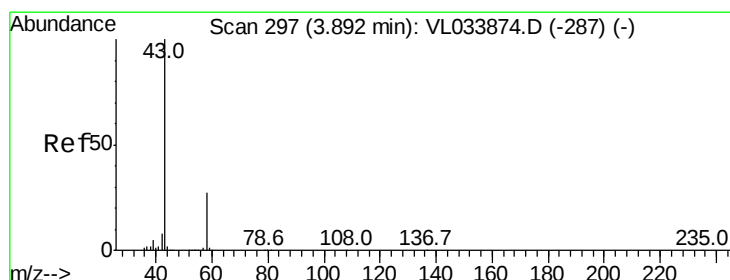
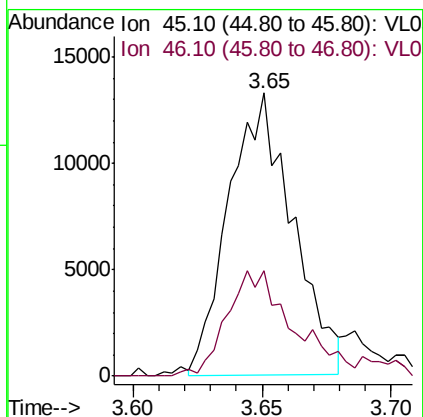
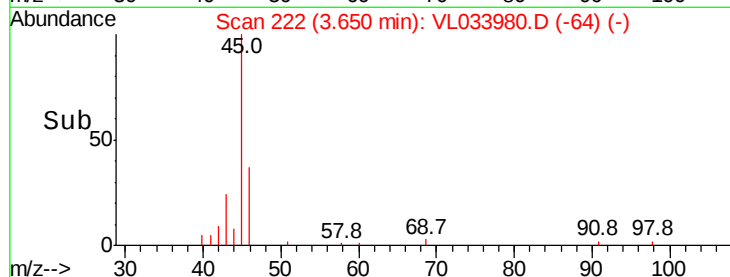
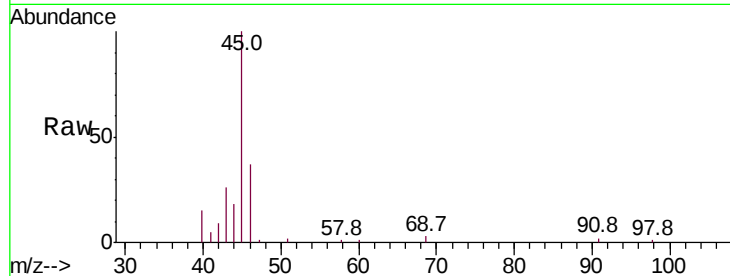
46 43.9 15.3 61.1

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#15

Acetone

Concen: 1.207 ppbv

RT: 3.90 min Scan# 300

Delta R.T. 0.01 min

Lab File: VL033980.D

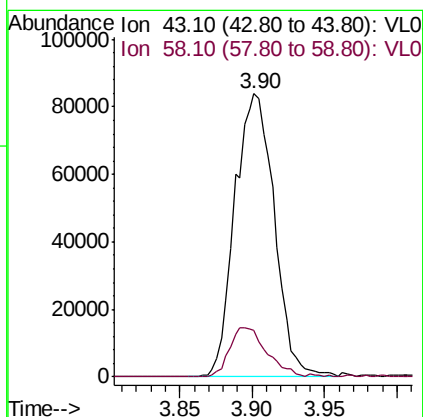
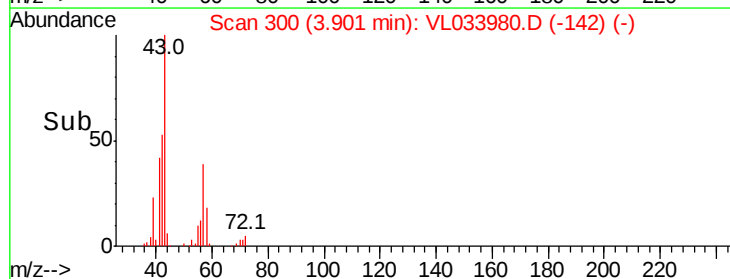
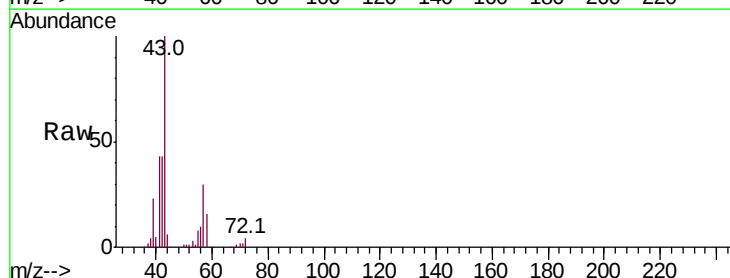
Acq: 26 Jun 2019 23:14

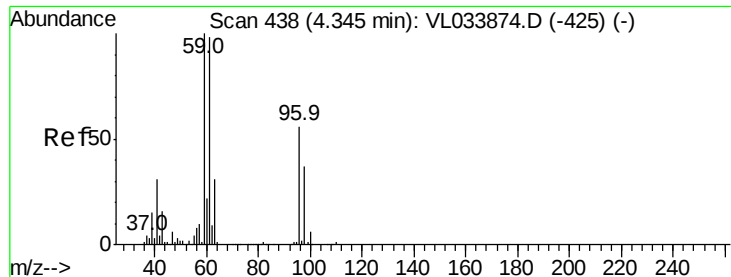
Tgt Ion: 43 Resp: 159009

Ion Ratio Lower Upper

43 100

58 16.7 21.3 31.9#





#17

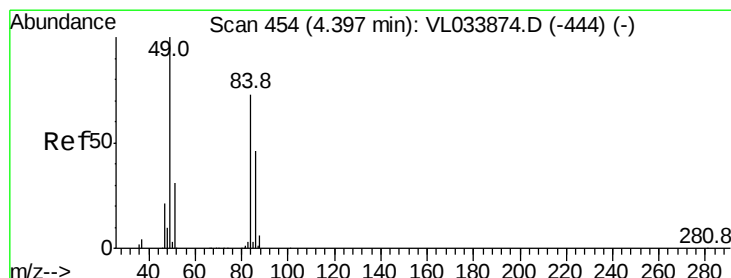
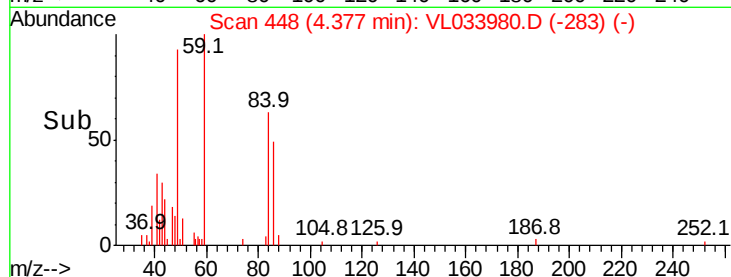
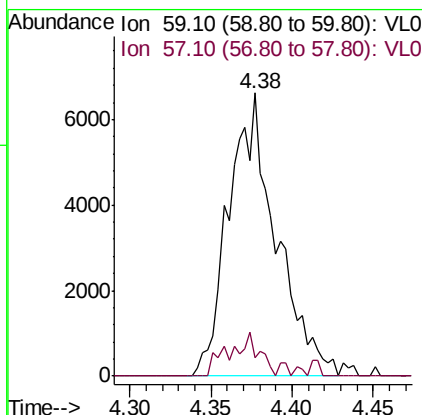
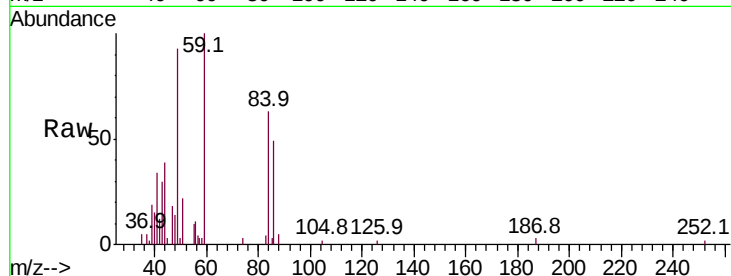
tert-Butyl alcohol
Concen: 0.131 ppbv
RT: 4.38 min Scan# 448
Delta R.T. 0.03 min
Lab File: VL033980.D
Acq: 26 Jun 2019 23:14

Instrument :
MSVOA_L
ClientSampleId :
SUB-SLABDL

Tot Ion	Ratio	Lower	Upper
59	100		
57	0.0	8.4	12.6#

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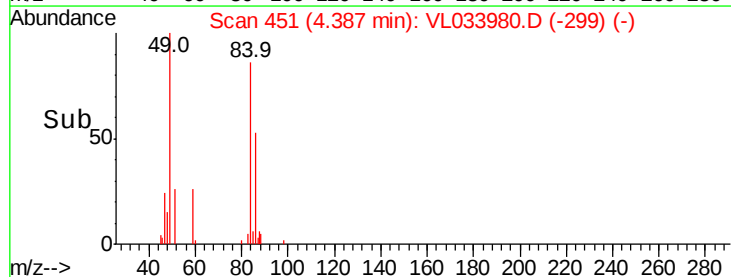
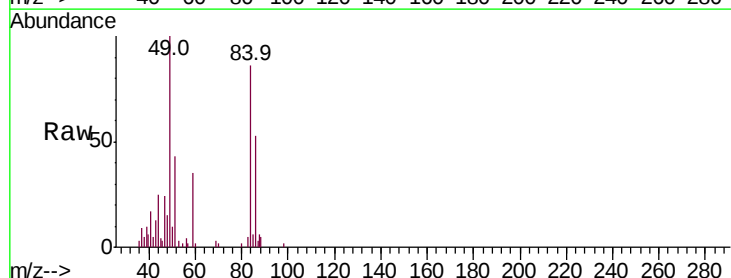
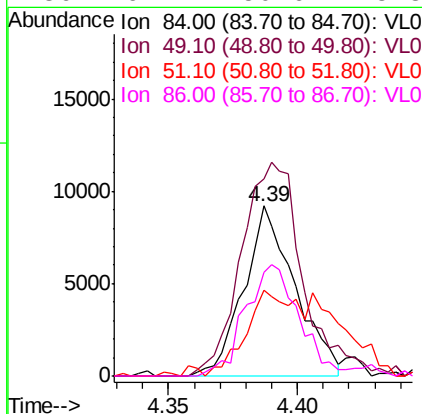
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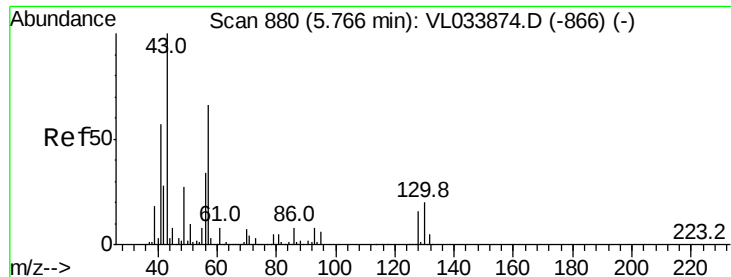


#20

Methylene Chloride
Concen: 0.250 ppbv
RT: 4.39 min Scan# 451
Delta R.T. -0.01 min
Lab File: VL033980.D
Acq: 26 Jun 2019 23:14

Tgt Ion	Ratio	Lower	Upper
84	100		
49	116.4	110.0	165.0
51	44.3	34.6	51.8
86	61.2	50.6	75.8





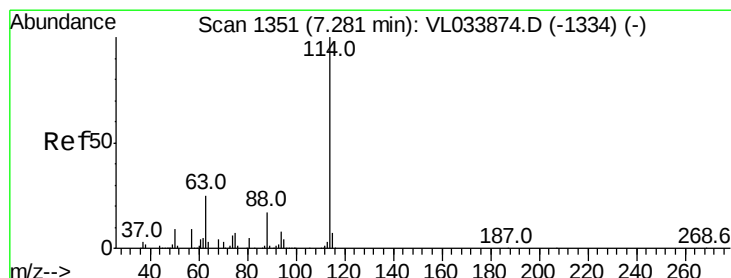
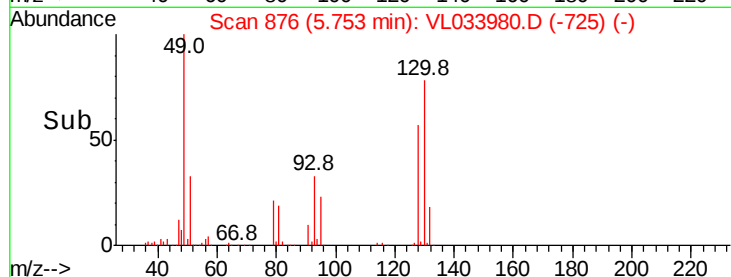
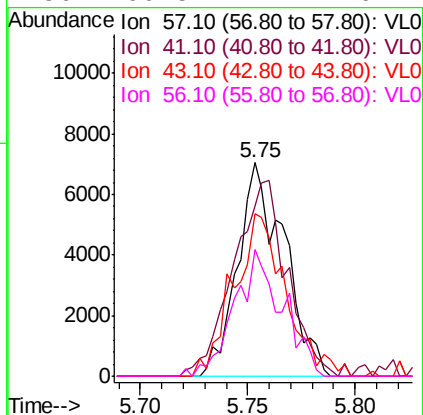
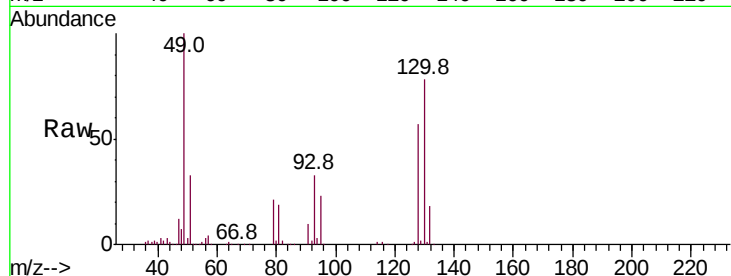
#26
Hexane
Concen: 0.117 ppbv m
RT: 5.75 min Scan# 876
Delta R.T. -0.01 min
Lab File: VL033980.D
Acq: 26 Jun 2019 23:14

Instrument :
MSVOA_L
ClientSampleId :
SUB-SLABDL

Tot Ion	Ratio	Lower	Upper
57	100		
41	0.0	71.4	107.2#
43	86.0	183.7	275.5#
56	60.5	42.7	64.1

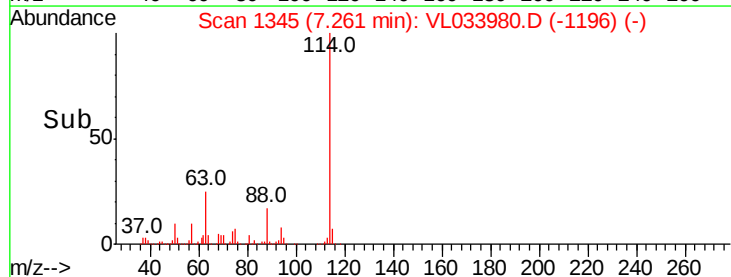
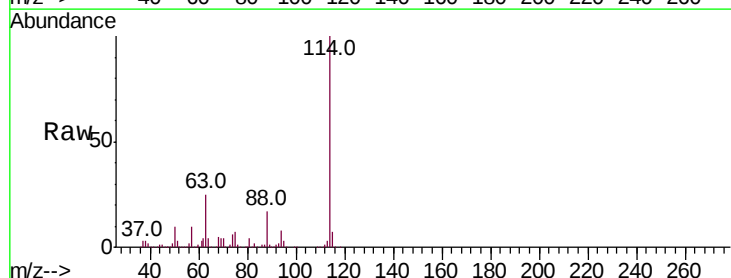
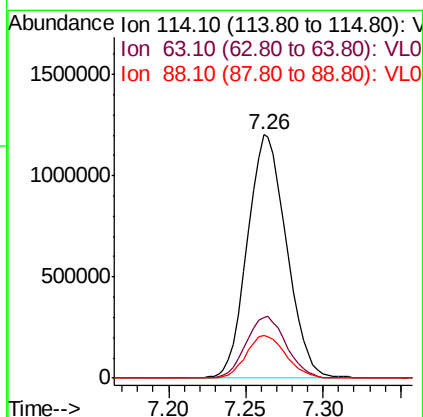
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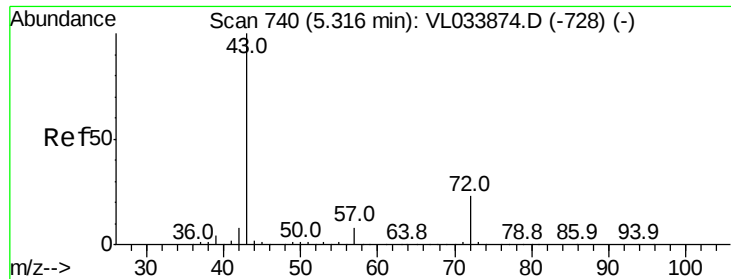
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#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.26 min Scan# 1345
Delta R.T. -0.02 min
Lab File: VL033980.D
Acq: 26 Jun 2019 23:14

Tgt Ion	Ratio	Lower	Upper
114	100		
63	26.1	21.1	31.7
88	17.9	14.2	21.4





#34

2-Butanone

Concen: 0.102 ppbv m

RT: 5.33 min Scan# 743

Delta R.T. 0.01 min

Lab File: VL033980.D

Acq: 26 Jun 2019 23:14

Instrument :

MSVOA_L

ClientSampleId :

SUB-SLABDL

Tot Ion: 43 Resp: 12144

Ion Ratio Lower Upper

43 100

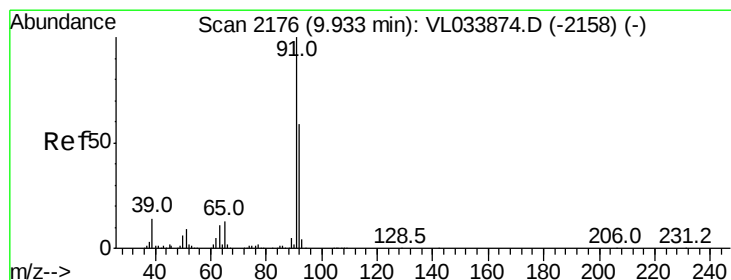
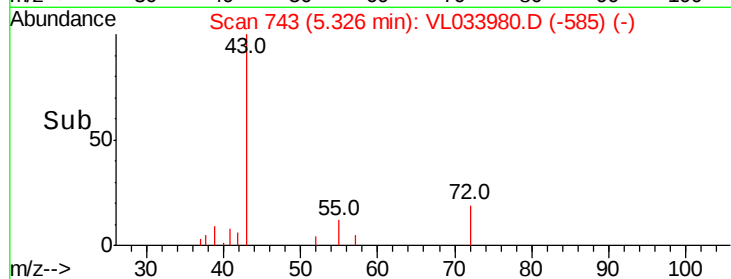
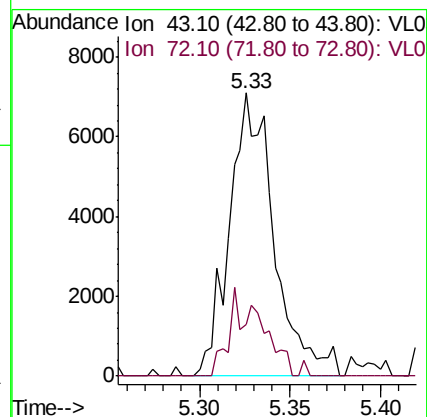
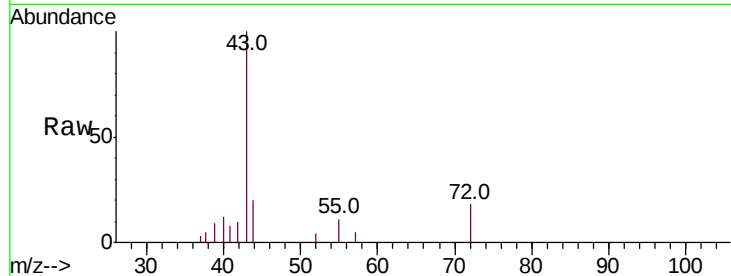
72 22.9 17.9 26.9

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#53

Toluene

Concen: 0.198 ppbv

RT: 9.92 min Scan# 2171

Delta R.T. -0.02 min

Lab File: VL033980.D

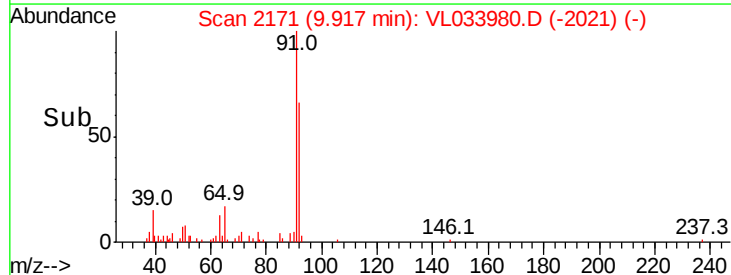
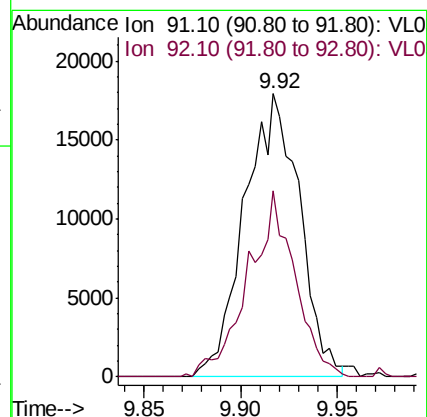
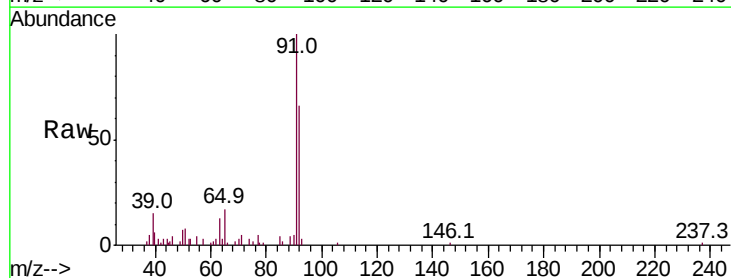
Acq: 26 Jun 2019 23:14

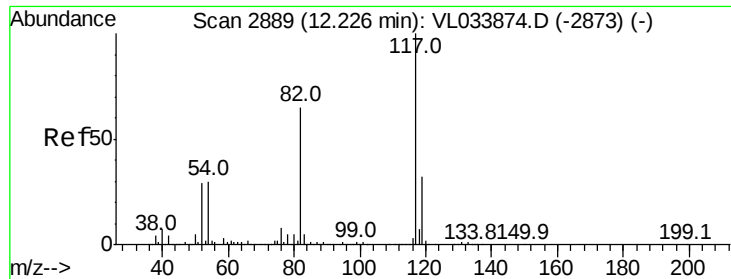
Tgt Ion: 91 Resp: 35371

Ion Ratio Lower Upper

91 100

92 55.6 47.0 70.6





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.21 min Scan# 2883

Delta R.T. -0.02 min

Lab File: VL033980.D

Acq: 26 Jun 2019 23:14

Instrument :

MSVOA_L

ClientSampleId :

SUB-SLABDL

Tot Ion:117 Resp: 2111018

Ion Ratio Lower Upper

117 100

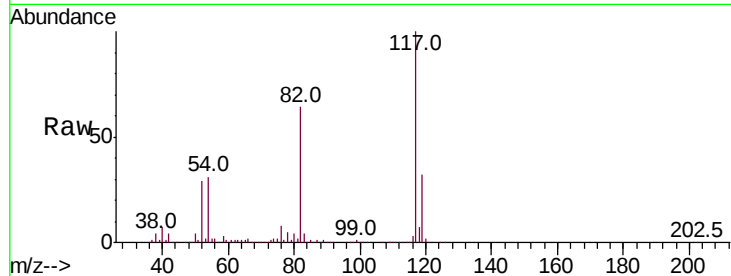
82 66.1 50.2 75.2

119 32.9 24.8 37.2

Manual Integrations
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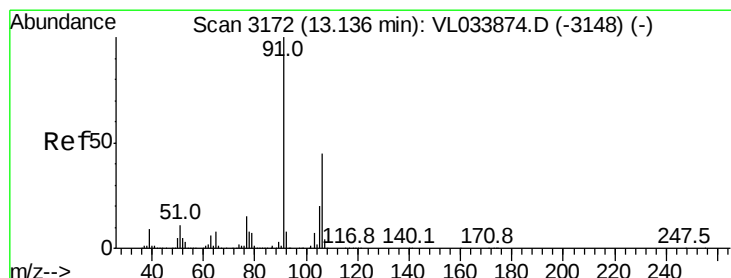
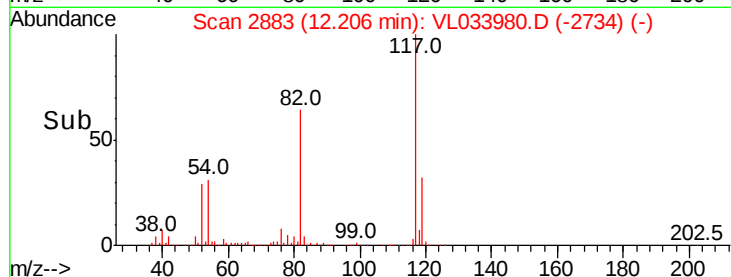
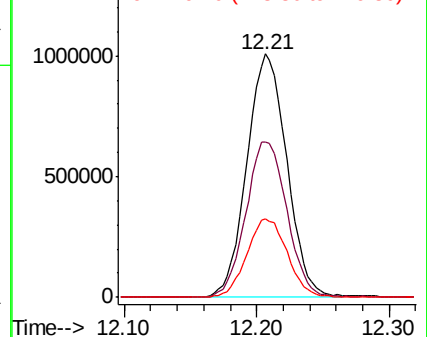
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Abundance Ion 117.10 (116.80 to 117.80): V

Ion 82.10 (81.80 to 82.80): VL0

Ion 119.10 (118.80 to 119.80): V



#59

m/p-Xylene

Concen: 0.143 ppbv m

RT: 13.09 min Scan# 3158

Delta R.T. -0.05 min

Lab File: VL033980.D

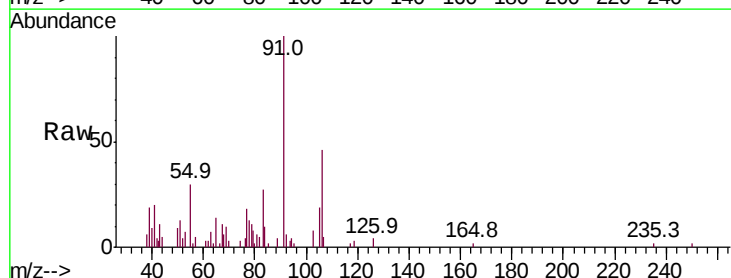
Acq: 26 Jun 2019 23:14

Tgt Ion: 91 Resp: 30906

Ion Ratio Lower Upper

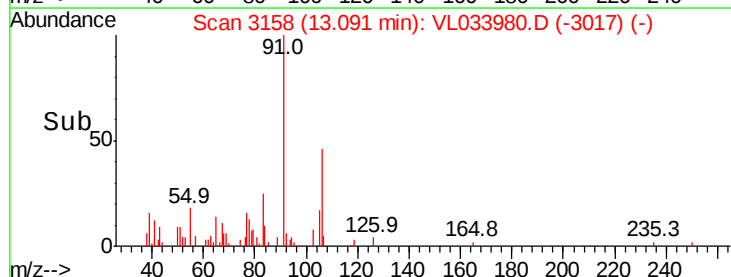
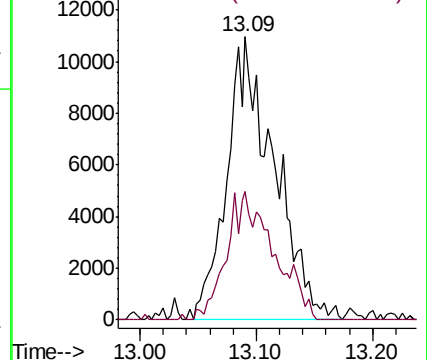
91 100

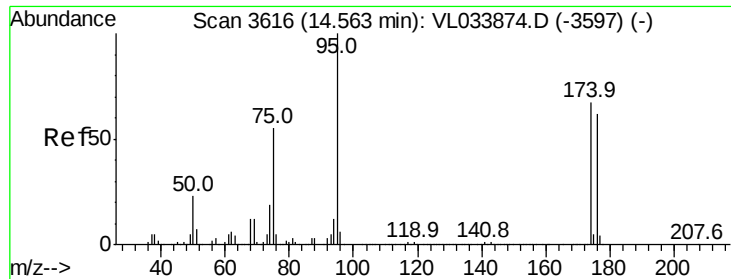
106 0.0 35.8 53.8#



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V





#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.299 ppbv
 RT: 14.54 min Scan# 3610
 Delta R.T. -0.02 min
 Lab File: VL033980.D
 Acq: 26 Jun 2019 23:14

Instrument :
 MSVOA_L
 ClientSampleId :
 SUB-SLABDL

Tot Ion: 95 Resp: 1785733
 Ion Ratio Lower Upper
 95 100
 174 67.4 54.0 81.0
 175 4.9 3.8 5.8

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