

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL071119\
 Data File : VL034025.D
 Acq On : 11 Jul 2019 20:04
 Operator : SY/AP
 Sample : K3747-02DL 10X
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SVS-2DL

Manual Integrations
 APPROVED

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 7/12/2019 10:47:06 PM

Quant Time: Jul 12 07:51:27 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL070219AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue Jul 0
 QLast Update : Tue Jul 02 19:31:31 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.73	49	1084296	10.00	ppbv	-0.01
33) 1,4-Difluorobenzene	7.25	114	2783860	10.00	ppbv	-0.02
55) Chlorobenzene-d5	12.19	117	2665944	10.00	ppbv	-0.01

System Monitoring Compounds		R.T.	QIon	Response	Conc	Units	Dev(Min)
68) 1-Bromo-4-Fluorobenzene		14.53	95	2114053	9.30	ppbv	-0.01
Spiked Amount	10.000	Range	65 - 135	Recovery	=	93.00%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
15) Acetone	3.89	43	135711	0.744	ppbv	92
20) Methylene Chloride	4.38	84	21414m	0.269	ppbv	
26) Hexane	5.74	57	22623m	0.198	ppbv	
31) cis-1,2-Dichloroethene	5.61	61	25853m	0.235	ppbv	
34) 2-Butanone	5.32	43	16312	0.111	ppbv	92
38) Trichloroethene	7.91	130	23454m	0.242	ppbv	
52) Tetrachloroethene	11.34	164	5745m	0.061	ppbv	
53) Toluene	9.90	91	205938	0.826	ppbv	98
58) Ethyl Benzene	12.82	91	37209m	0.116	ppbv	
59) m/p-Xylene	13.08	91	171152m	0.590	ppbv	
60) o-Xylene	13.80	91	55431m	0.191	ppbv	
74) 1,2,4-Trimethylbenzene	16.88	105	92944m	0.242	ppbv	

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

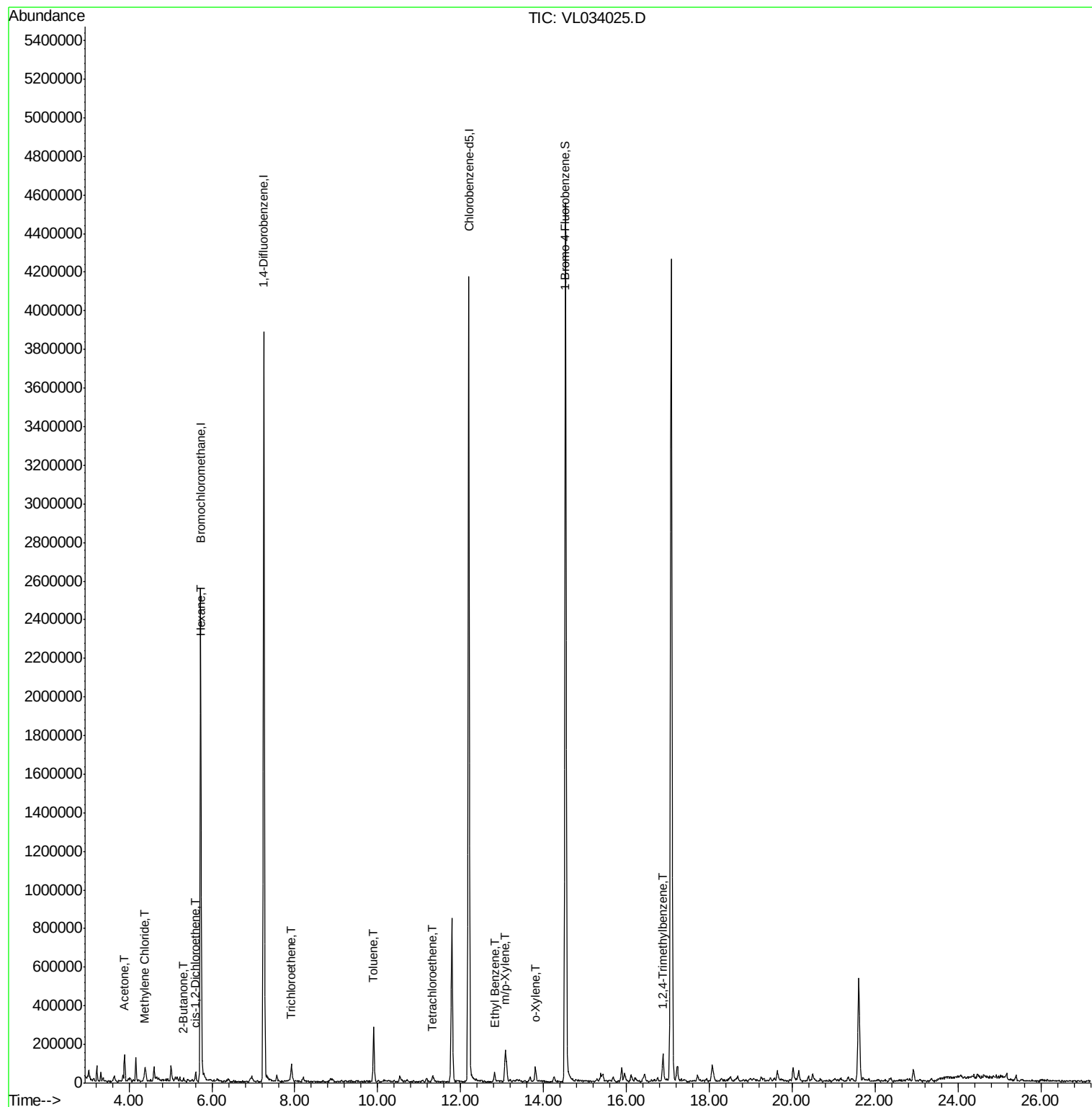
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL071119\
Data File : VL034025.D
Acq On : 11 Jul 2019 20:04
Operator : SY/AP
Sample : K3747-02DL 10X
Misc : 400ml/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

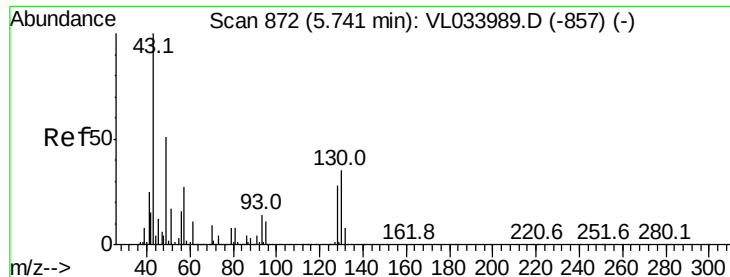
Instrument :
MSVOA_L
ClientSampleId :
SVS-2DL

Manual Integrations
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7/12/2019 10:47:06 PM

Quant Time: Jul 12 07:51:27 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL070219AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LTue Jul
QLast Update : Tue Jul 02 19:31:31 2019
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.73 min Scan# 868

Delta R.T. -0.01 min

Lab File: VL034025.D

Acq: 11 Jul 2019 20:04

Instrument :

MSVOA_L

ClientSampleId :

SVS-2DL

Tot Ion: 49 Resp: 1084296

Ion Ratio Lower Upper

49 100

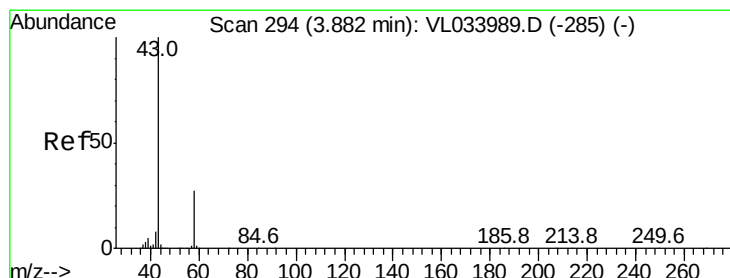
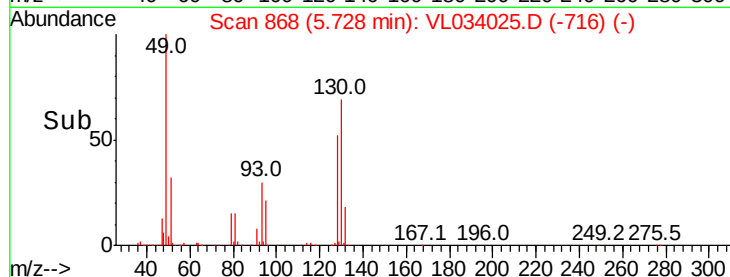
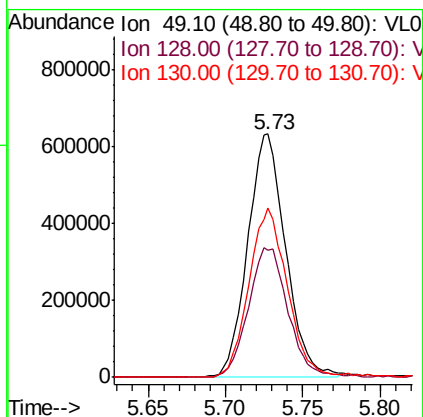
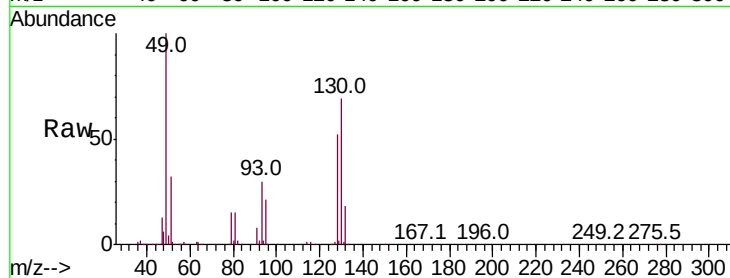
128 56.2 27.9 83.6

130 70.8 35.8 107.4

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#15

Acetone

Concen: 0.744 ppbv

RT: 3.89 min Scan# 296

Delta R.T. 0.01 min

Lab File: VL034025.D

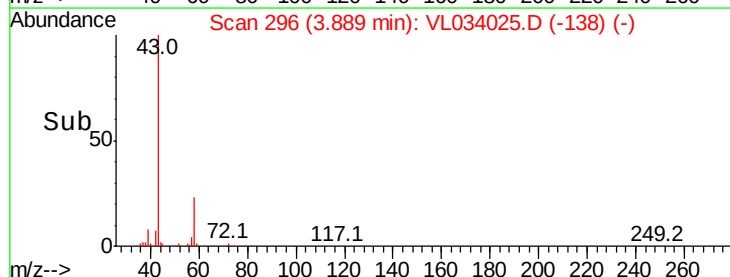
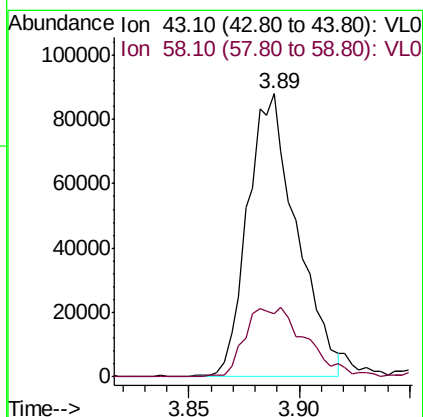
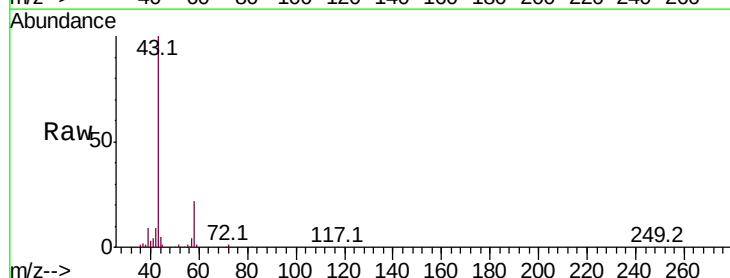
Acq: 11 Jul 2019 20:04

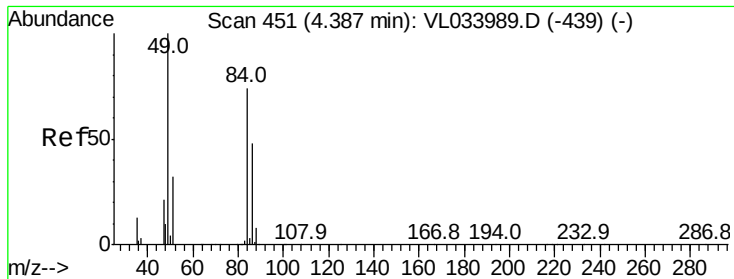
Tgt Ion: 43 Resp: 135711

Ion Ratio Lower Upper

43 100

58 31.0 21.4 32.0





#20

Methylene Chloride

Concen: 0.269 ppbv m

RT: 4.38 min Scan# 449

Delta R.T. -0.01 min

Lab File: VL034025.D

Acq: 11 Jul 2019 20:04

Instrument :

MSVOA_L

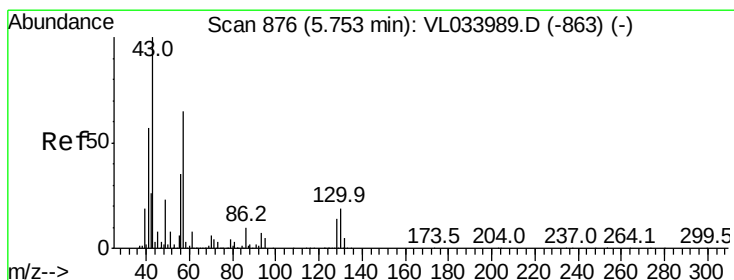
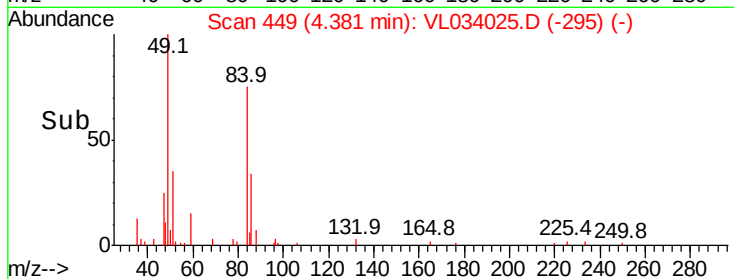
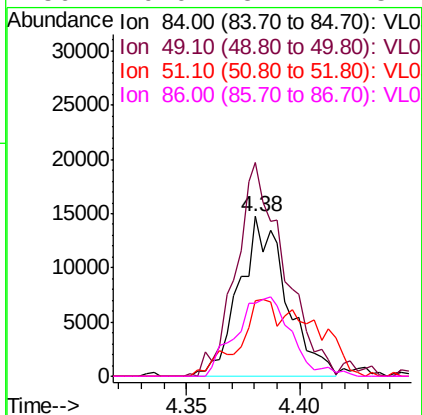
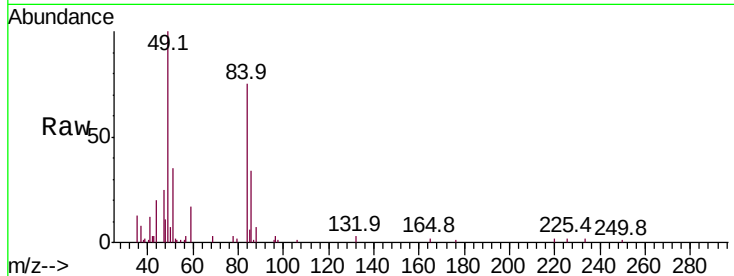
ClientSampleId :

SVS-2DL

Tot Ion:	84	Resp:	21414
Ion	Ratio	Lower	Upper
84	100		
49	133.7	107.6	161.4
51	47.4	35.0	52.6
86	46.0	52.1	78.1#

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#26

Hexane

Concen: 0.198 ppbv m

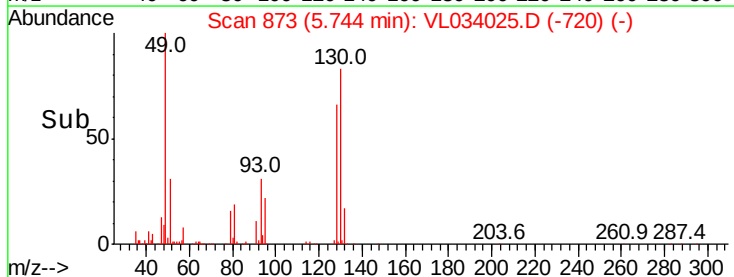
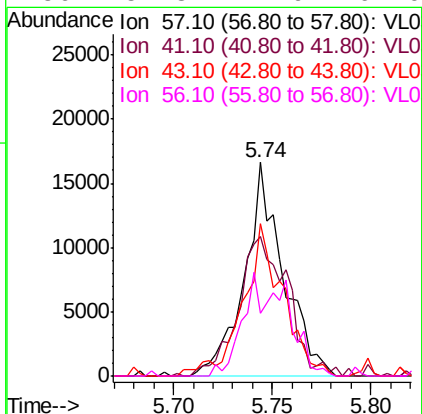
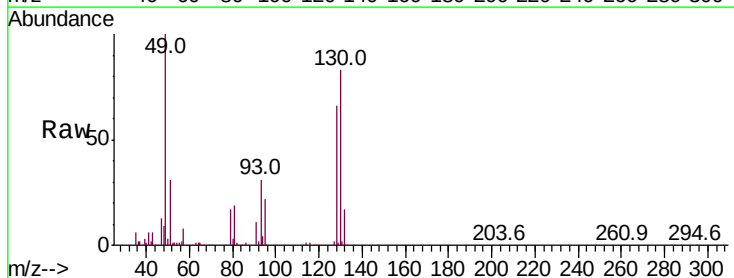
RT: 5.74 min Scan# 873

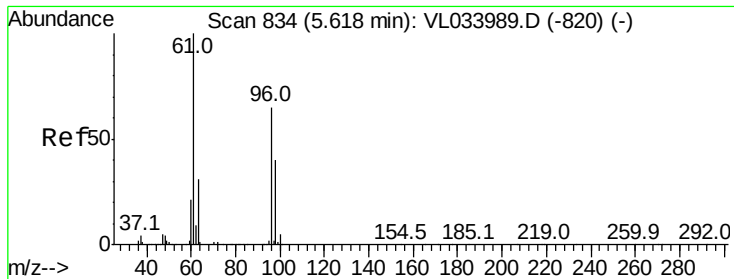
Delta R.T. -0.01 min

Lab File: VL034025.D

Acq: 11 Jul 2019 20:04

Tgt Ion:	57	Resp:	22623
Ion	Ratio	Lower	Upper
57	100		
41	84.8	70.6	105.8
43	75.8	177.6	266.4#
56	54.8	42.6	64.0





#31

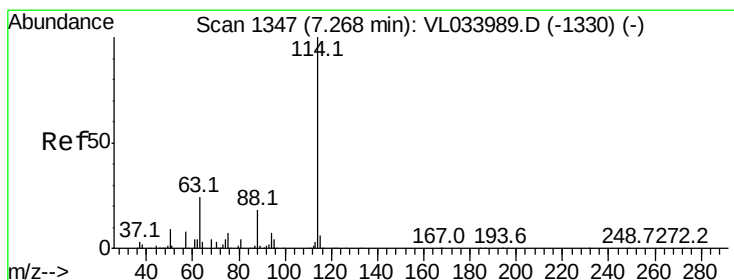
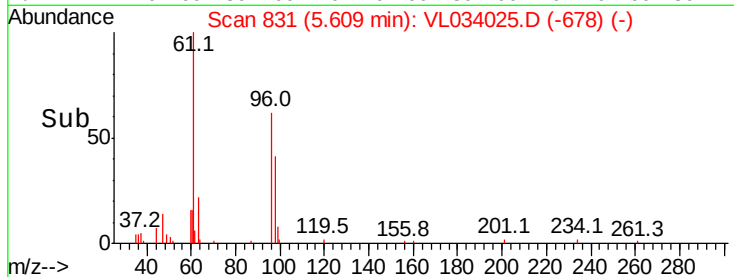
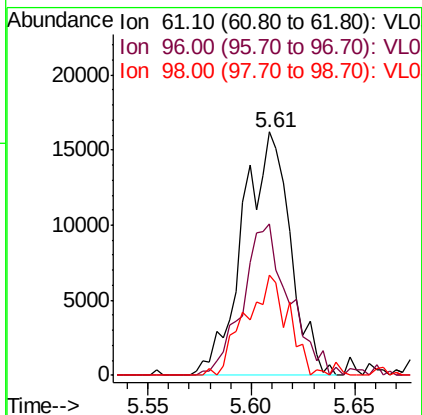
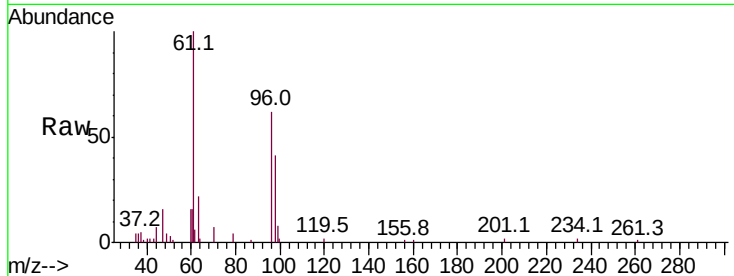
cis-1,2-Dichloroethene
Concen: 0.235 ppbv m
RT: 5.61 min Scan# 831
Delta R.T. -0.01 min
Lab File: VL034025.D
Acq: 11 Jul 2019 20:04

Instrument :
MSVOA_L
ClientSampleId :
SVS-2DL

Tot Ion	Ratio	Resp	Lower	Upper
61	100	25853		
96	62.0		51.8	77.6
98	41.2		32.1	48.1

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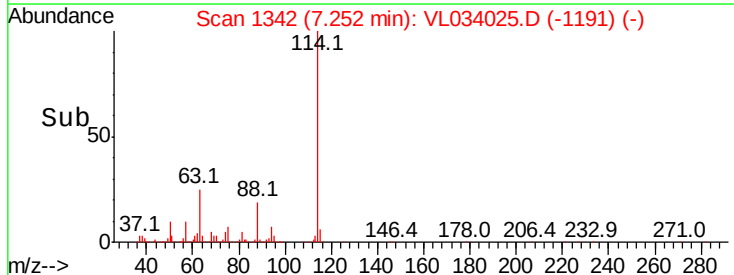
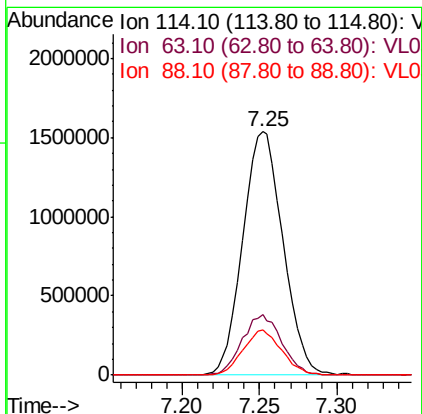
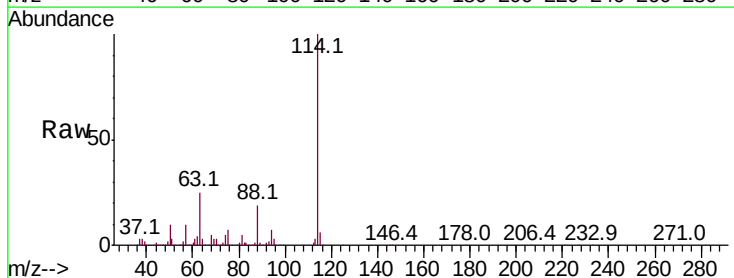
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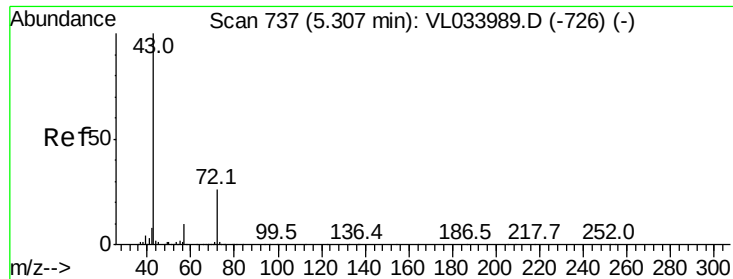


#33

1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.25 min Scan# 1342
Delta R.T. -0.02 min
Lab File: VL034025.D
Acq: 11 Jul 2019 20:04

Tgt Ion	Ratio	Resp	Lower	Upper
114	100	2783860		
63	24.6		20.2	30.2
88	18.0		14.1	21.1





#34

2-Butanone

Concen: 0.111 ppbv

RT: 5.32 min Scan# 740

Delta R.T. 0.01 min

Lab File: VL034025.D

Acq: 11 Jul 2019 20:04

Instrument :

MSVOA_L

ClientSampled :

SVS-2DL

Tot Ion: 43 Resp: 16312

Ion Ratio Lower Upper

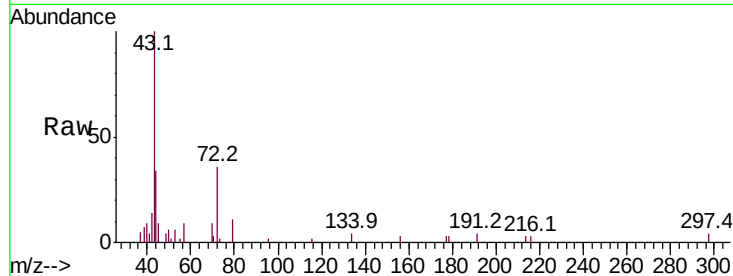
43 100

72 29.1 19.9 29.9

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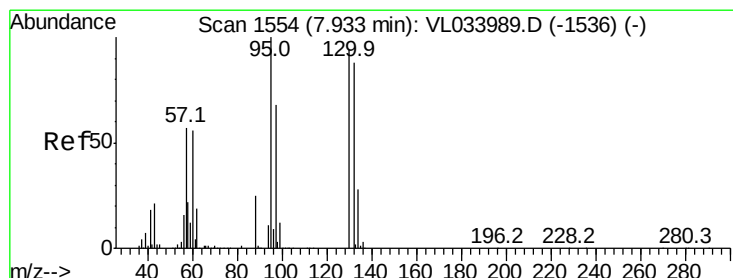
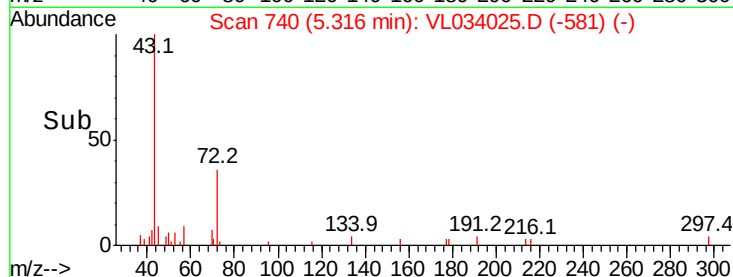
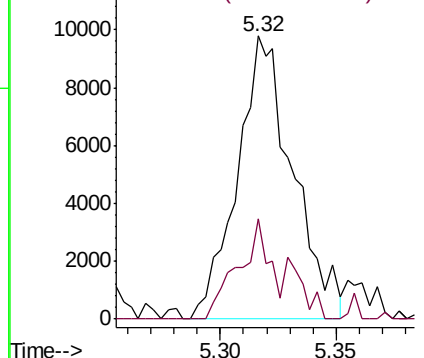
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Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 72.10 (71.80 to 72.80): VL0



#38

Trichloroethene

Concen: 0.242 ppbv m

RT: 7.91 min Scan# 1548

Delta R.T. -0.02 min

Lab File: VL034025.D

Acq: 11 Jul 2019 20:04

Tgt Ion: 130 Resp: 23454

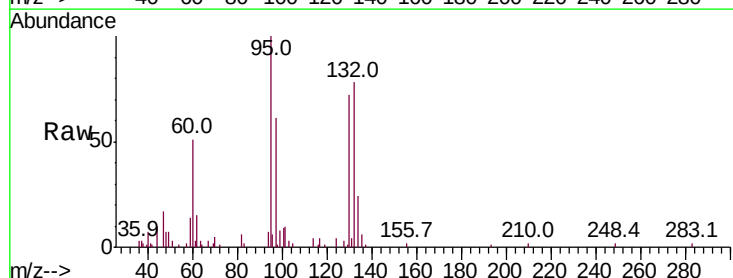
Ion Ratio Lower Upper

130 100

95 139.0 85.5 128.3#

132 108.1 75.1 112.7

97 84.7 58.1 87.1

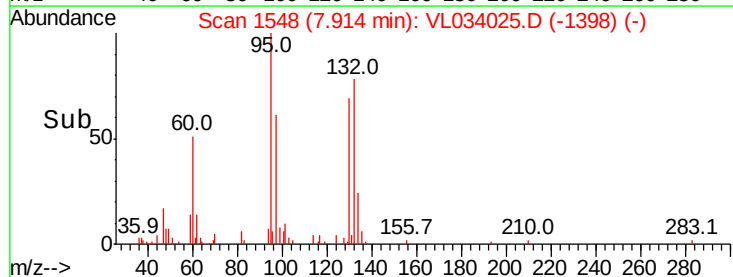
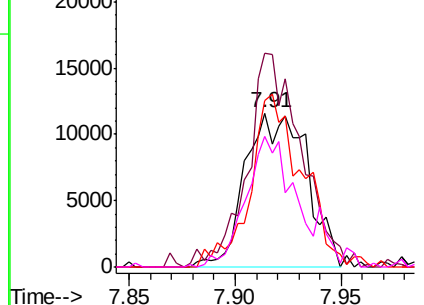


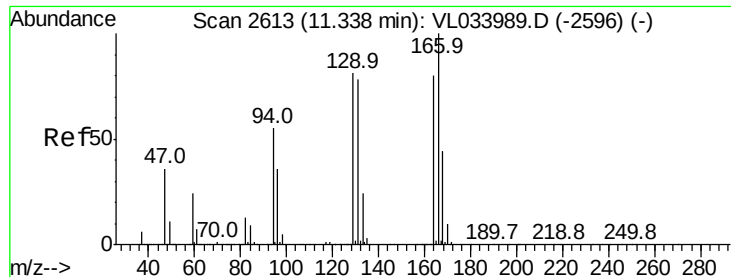
Abundance Ion 130.00 (129.70 to 130.70): V

Ion 95.00 (94.70 to 95.70): VL0

Ion 132.00 (131.70 to 132.70): V

Ion 97.00 (96.70 to 97.70): VL0





#52

Tetrachloroethene

Concen: 0.061 ppbv m

RT: 11.34 min Scan# 2612

Delta R.T. -0.00 min

Lab File: VL034025.D

Acq: 11 Jul 2019 20:04

Instrument :

MSVOA_L

ClientSampleId :

SVS-2DL

Tot Ion:164 Resp: 5745

Ion Ratio Lower Upper

164 100

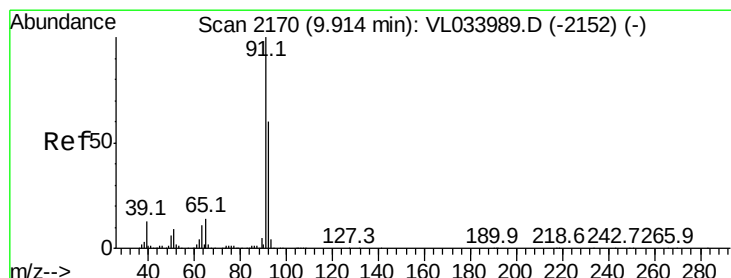
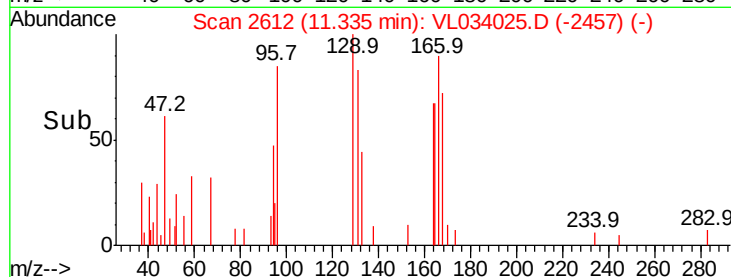
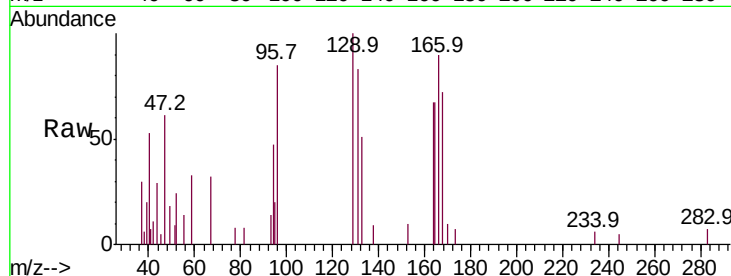
166 133.5 100.2 150.2

129 148.7 81.0 121.6#

131 123.0 78.3 117.5#

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#53

Toluene

Concen: 0.826 ppbv

RT: 9.90 min Scan# 2166

Delta R.T. -0.01 min

Lab File: VL034025.D

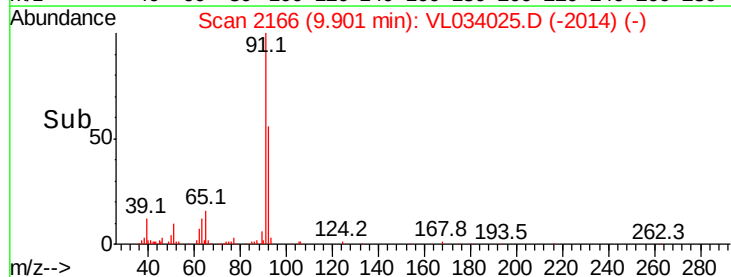
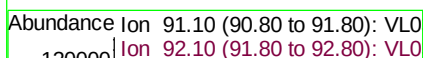
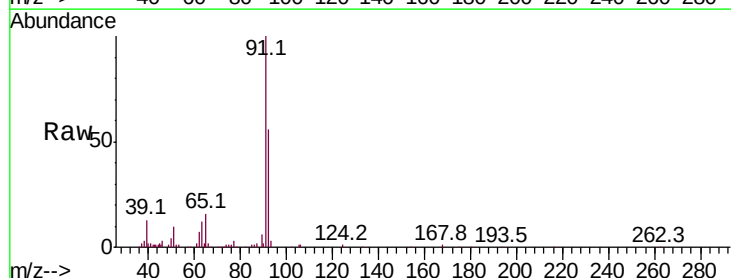
Acq: 11 Jul 2019 20:04

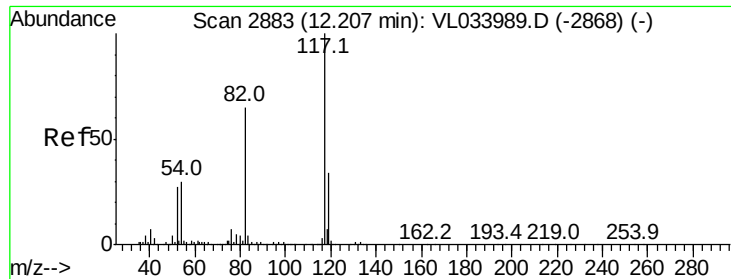
Tgt Ion: 91 Resp: 205938

Ion Ratio Lower Upper

91 100

92 58.3 47.7 71.5





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.19 min Scan# 2879

Delta R.T. -0.01 min

Lab File: VL034025.D

Acq: 11 Jul 2019 20:04

Instrument :

MSVOA_L

ClientSampleId :

SVS-2DL

Tot Ion:117 Resp: 2665944

Ion Ratio Lower Upper

117 100

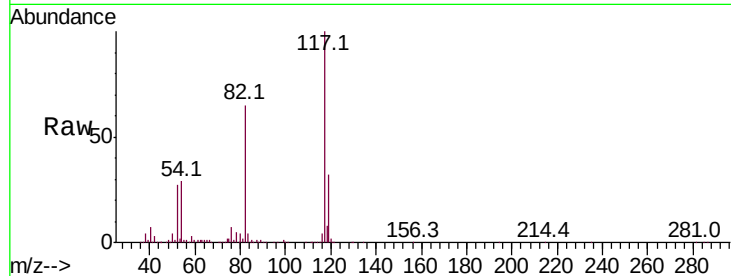
82 65.5 50.8 76.2

119 32.5 24.0 36.0

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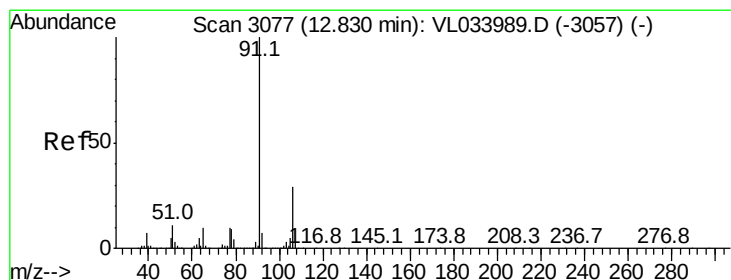
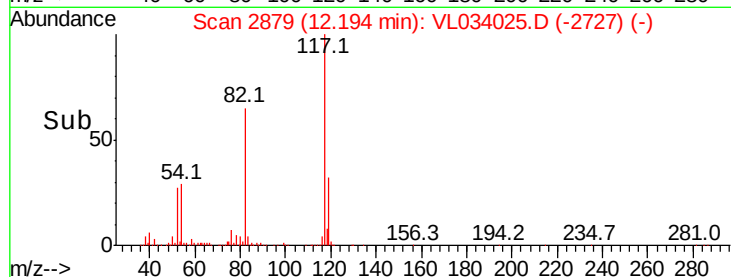
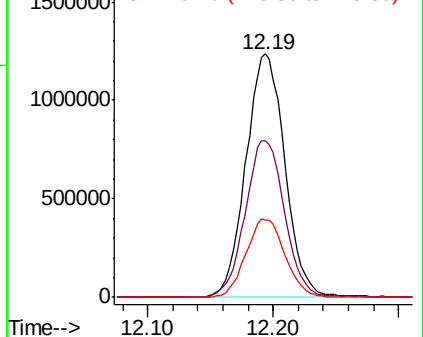
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Abundance Ion 117.10 (116.80 to 117.80): V

Ion 82.10 (81.80 to 82.80): VL0

Ion 119.10 (118.80 to 119.80): V



#58

Ethyl Benzene

Concen: 0.116 ppbv m

RT: 12.82 min Scan# 3074

Delta R.T. -0.01 min

Lab File: VL034025.D

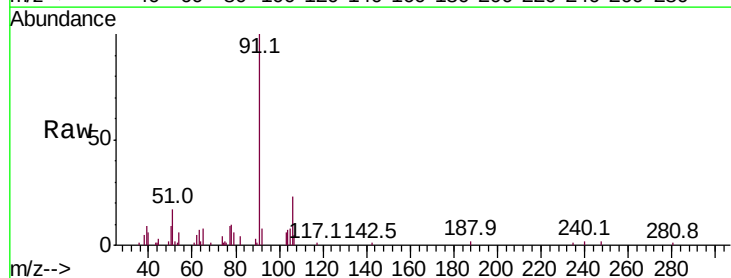
Acq: 11 Jul 2019 20:04

Tgt Ion: 91 Resp: 37209

Ion Ratio Lower Upper

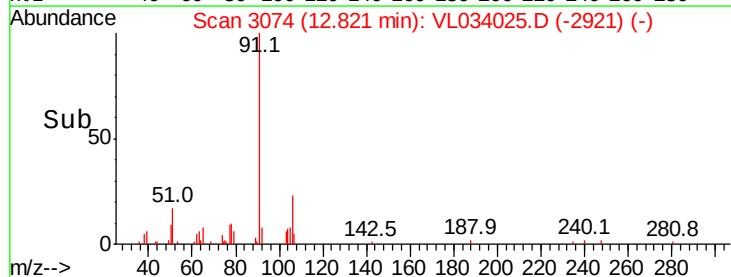
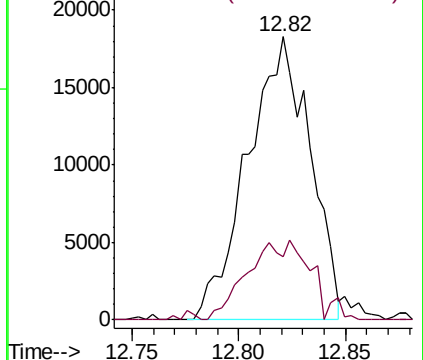
91 100

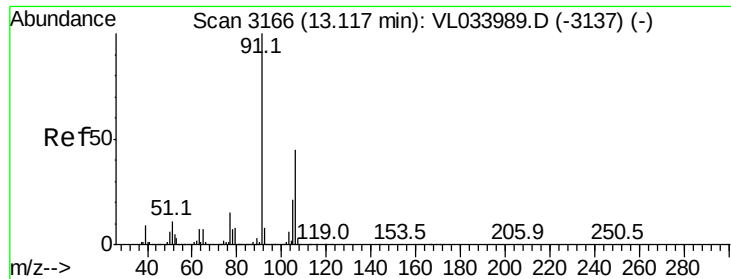
106 22.6 23.3 34.9#



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V





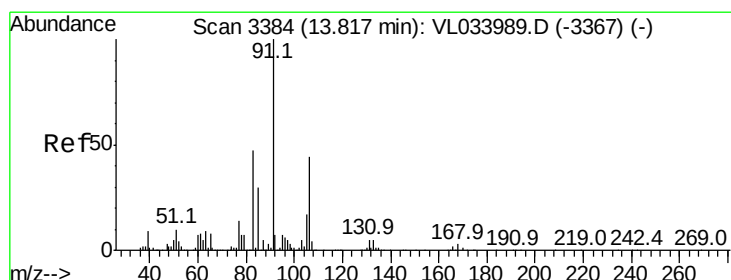
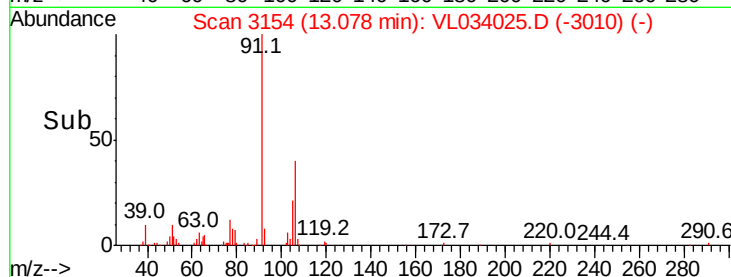
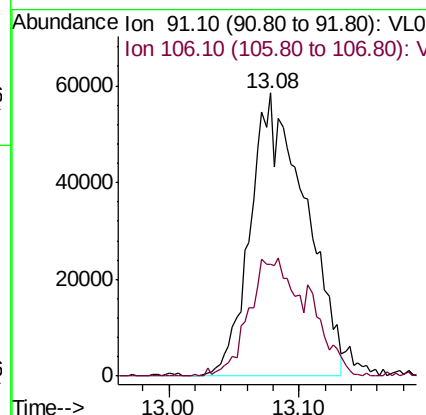
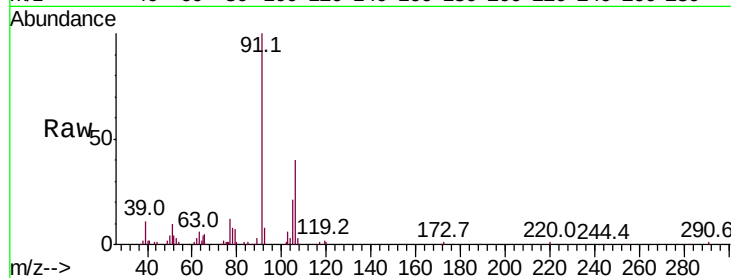
#59
m/p-Xylene
Concen: 0.590 ppbv m
RT: 13.08 min Scan# 3154
Delta R.T. -0.04 min
Lab File: VL034025.D
Acq: 11 Jul 2019 20:04

Instrument :
MSVOA_L
ClientSampleId :
SVS-2DL

Tot Ion	Ratio	Lower	Upper
91	100		
106	45.6	35.7	53.5

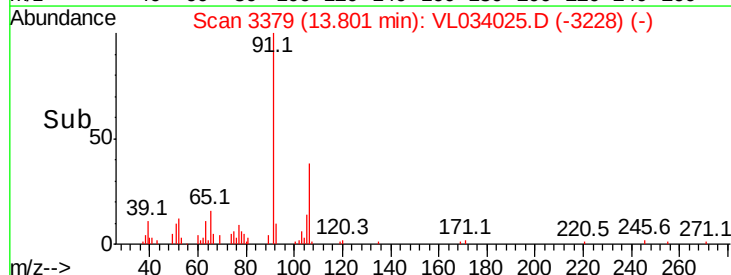
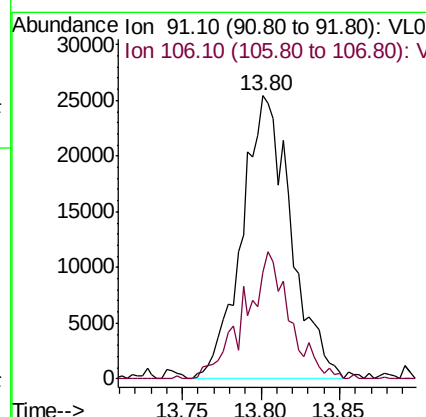
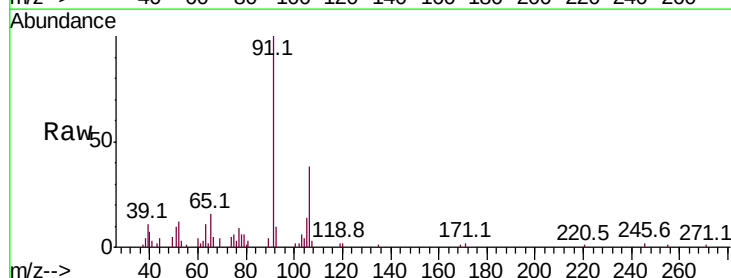
Manual Integrations
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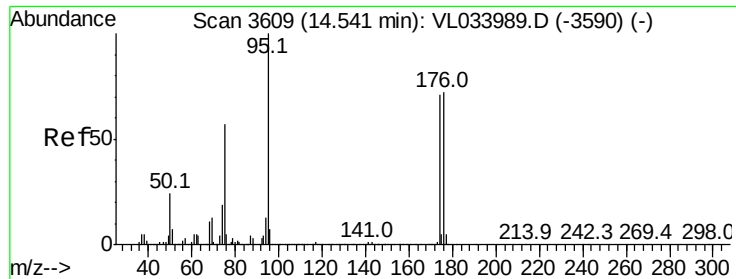
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#60
o-Xylene
Concen: 0.191 ppbv m
RT: 13.80 min Scan# 3379
Delta R.T. -0.02 min
Lab File: VL034025.D
Acq: 11 Jul 2019 20:04

Tgt Ion	Ratio	Lower	Upper
91	100		
106	41.5	21.9	65.7





#68

1-Bromo-4-Fluorobenzene

Concen: 9.298 ppbv

RT: 14.53 min Scan# 3605

Delta R.T. -0.01 min

Lab File: VL034025.D

Acq: 11 Jul 2019 20:04

Instrument :

MSVOA_L

ClientSampled :

SVS-2DL

Tot Ion: 95 Resp: 2114053

Ion Ratio Lower Upper

95 100

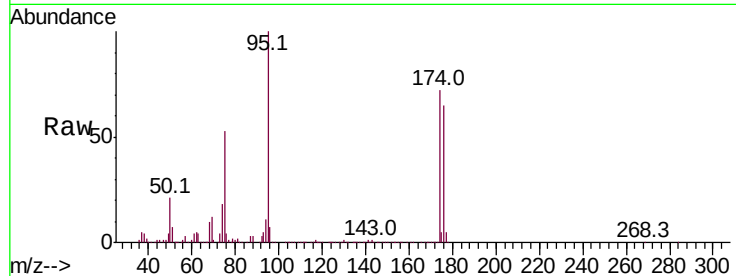
174 73.4 60.5 90.7

175 5.4 4.0 6.0

Manual Integrations
APPROVED

MMDadoda

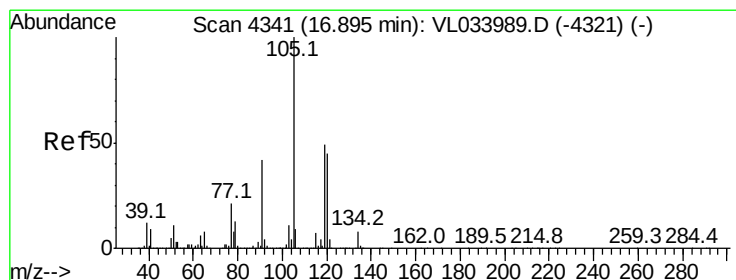
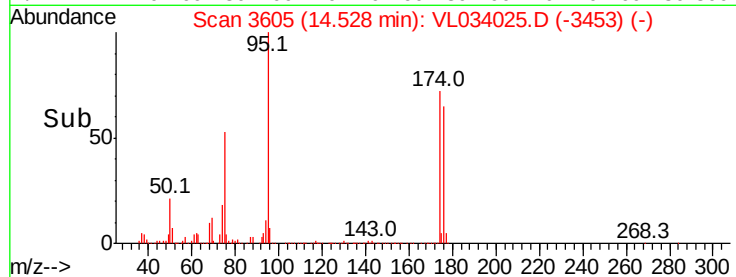
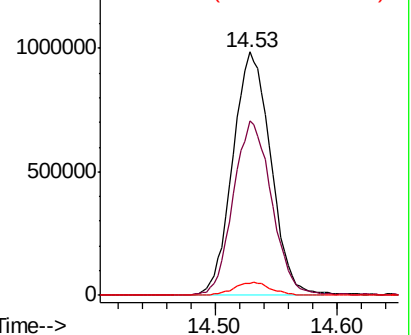
7/12/2019 10:47:06 PM



Abundance Ion 95.10 (94.80 to 95.80): VL033989.D (-3590) (-)

Ion 174.00 (173.70 to 174.70): VL033989.D (-3590) (-)

Ion 175.00 (174.70 to 175.70): VL033989.D (-3590) (-)



#74

1,2,4-Trimethylbenzene

Concen: 0.242 ppbv m

RT: 16.88 min Scan# 4337

Delta R.T. -0.01 min

Lab File: VL034025.D

Acq: 11 Jul 2019 20:04

Tgt Ion: 105 Resp: 92944

Ion Ratio Lower Upper

105 100

120 46.6 36.2 54.2

91 10.5 34.3 51.5#

77 14.6 17.1 25.7#

Abundance Ion 105.10 (104.80 to 105.80): VL033989.D (-4321) (-)

Ion 120.20 (119.90 to 120.90): VL033989.D (-4321) (-)

Ion 91.10 (90.80 to 91.80): VL033989.D (-4321) (-)

Ion 77.10 (76.80 to 77.80): VL033989.D (-4321) (-)

