

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL032019\
 Data File : VL033407.D
 Acq On : 21 Mar 2019 2:18
 Operator : SY/AP
 Sample : K1976-04DL 10X
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 OA1DL

Manual Integrations
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 3/25/2019 8:26:38 AM

Quant Time: Mar 22 06:36:15 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	799640	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.29	114	1977865	10.00	ppbv	-0.01
55) Chlorobenzene-d5	12.24	117	1864171	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.58	95	1389349	10.06	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	100.60%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
9) Propene	3.04	41	222109	5.421	ppbv	100
13) Ethanol	3.65	45	137027	7.016	ppbv	100
15) Acetone	3.91	43	355286	2.858	ppbv #	88
19) Isopropyl Alcohol	4.03	45	129435	2.189	ppbv #	95
20) Methylene Chloride	4.41	84	27235	0.672	ppbv	92
26) Hexane	5.78	57	69297	0.858	ppbv #	43
30) Cyclohexane	7.25	84	15858m	0.245	ppbv	
36) Benzene	7.00	78	434070	2.452	ppbv	98
44) 2,2,4-Trimethylpentane	7.99	57	82736m	0.282	ppbv	
52) Tetrachloroethene	11.37	164	14119m	0.191	ppbv	
53) Toluene	9.94	91	621458	3.090	ppbv	99
58) Ethyl Benzene	12.86	91	76659	0.291	ppbv #	87
59) m/p-Xylene	13.12	91	274849	1.213	ppbv #	100
60) o-Xylene	13.84	91	86667	0.392	ppbv	98
61) Styrene	13.69	104	20515m	0.133	ppbv	
73) 1,3,5-Trimethylbenzene	16.16	105	26271m	0.107	ppbv	
74) 1,2,4-Trimethylbenzene	16.93	105	91550	0.353	ppbv #	71

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

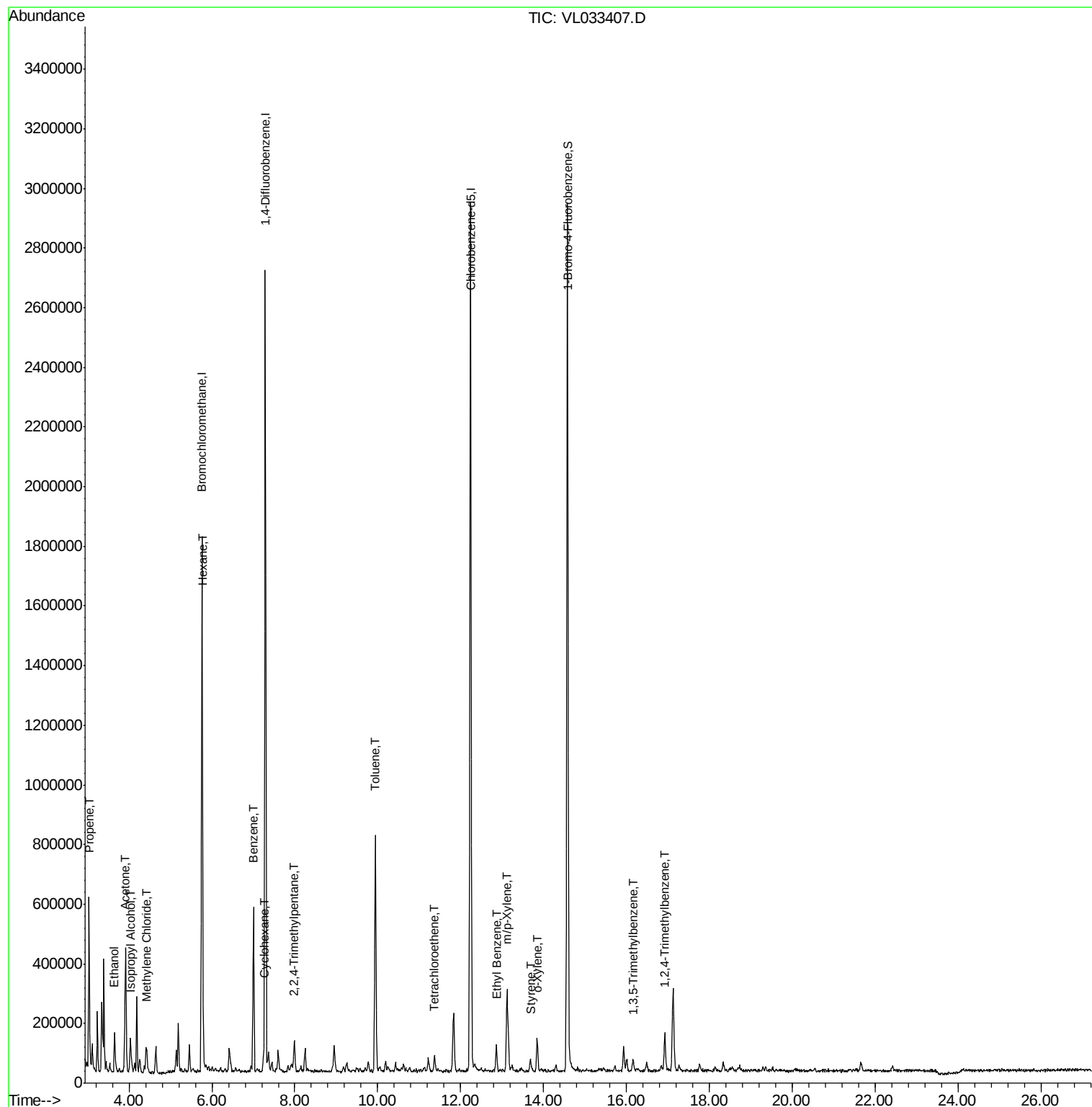
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL032019\
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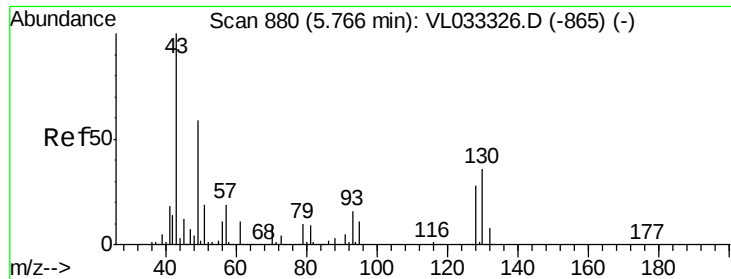
Instrument :
MSVOA_L
ClientSampleId :
OA1DL

Manual Integrations
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Quant Time: Mar 22 06:36:15 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# 877

Delta R.T. -0.01 min

Lab File: VL033407.D

Acq: 21 Mar 2019 2:18

Instrument :

MSVOA_L

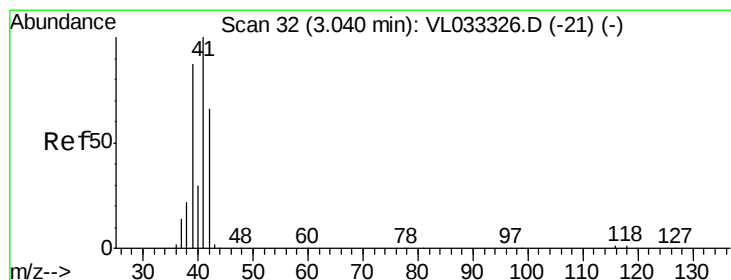
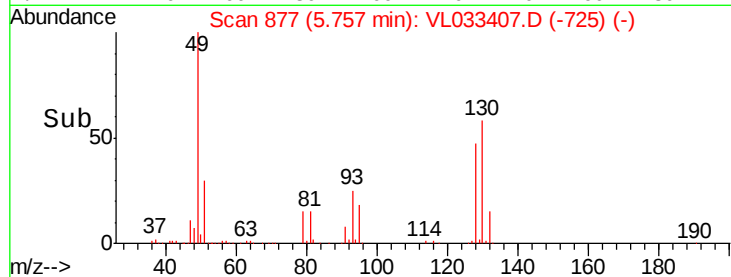
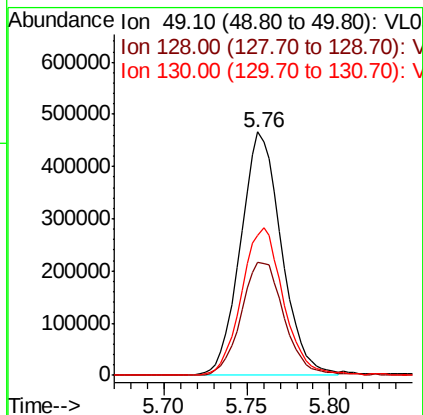
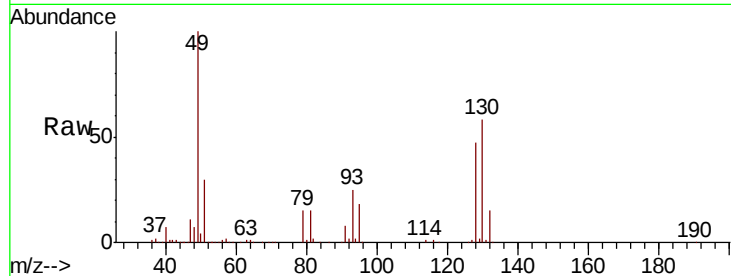
ClientSampleID :

QA1DL

Tot Ion:	49	Resp:	799640
Ion Ratio	Lower	Upper	
49	100		
128	49.1	23.5	70.6
130	62.6	30.1	90.3

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#9

Propene

Concen: 5.421 ppbv

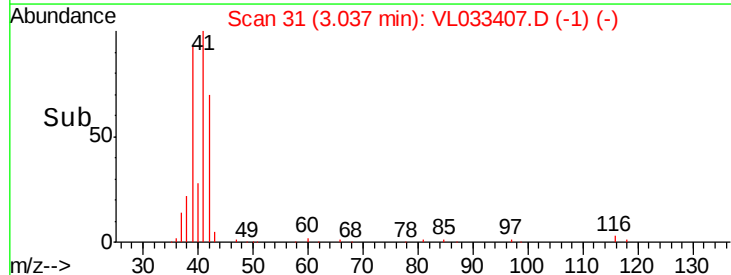
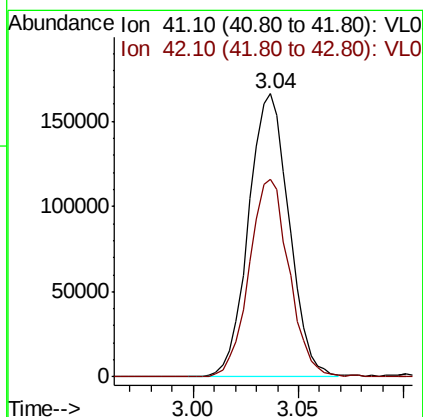
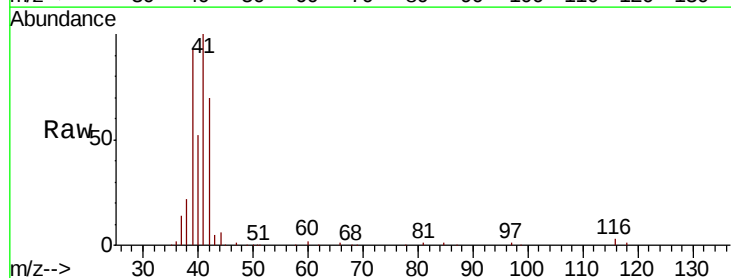
RT: 3.04 min Scan# 31

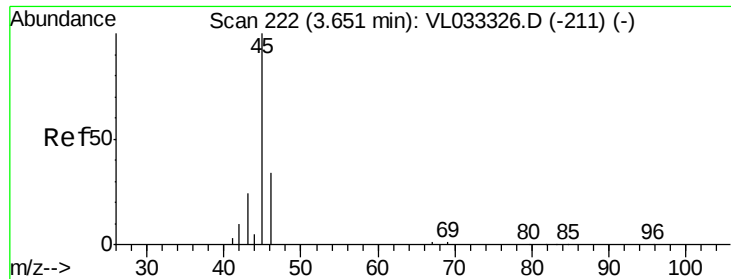
Delta R.T. -0.00 min

Lab File: VL033407.D

Acq: 21 Mar 2019 2:18

Tgt Ion:	41	Resp:	222109
Ion Ratio	Lower	Upper	
41	100		
42	69.0	55.2	82.8





#13

Ethanol

Concen: 7.016 ppbv

RT: 3.65 min Scan# 222

Delta R.T. -0.00 min

Lab File: VL033407.D

Acq: 21 Mar 2019 2:18

Instrument :

MSVOA_L

ClientSampleId :

QA1DL

Tot Ion: 45 Resp: 137027

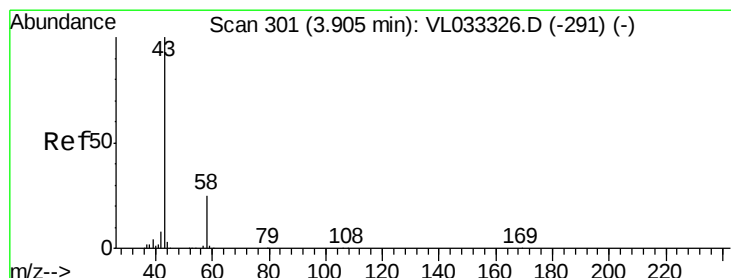
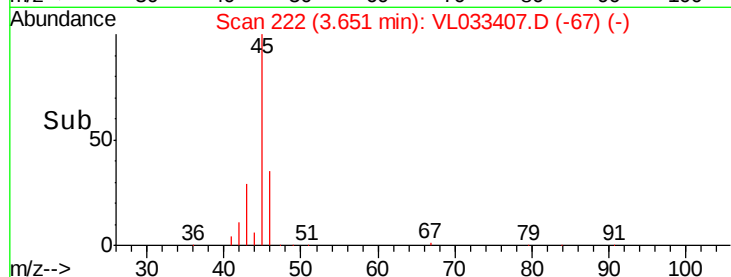
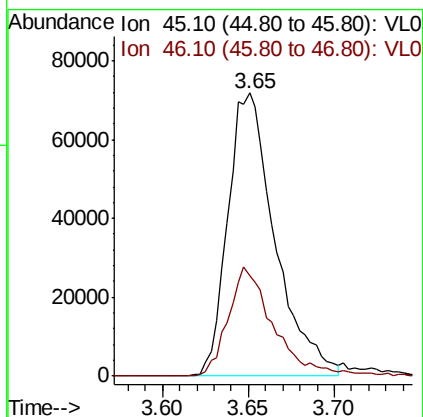
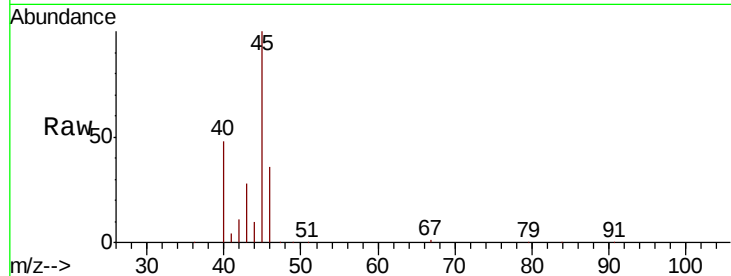
Ion Ratio Lower Upper

45 100

46 37.3 14.9 59.7

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#15

Acetone

Concen: 2.858 ppbv

RT: 3.91 min Scan# 302

Delta R.T. 0.00 min

Lab File: VL033407.D

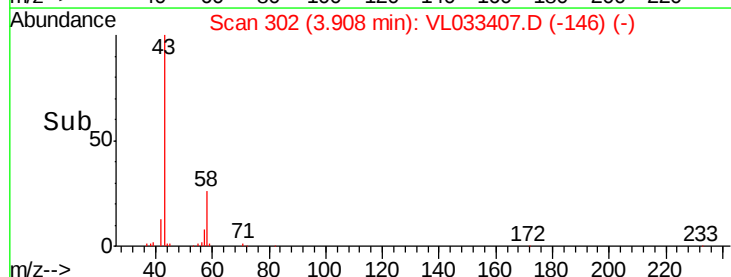
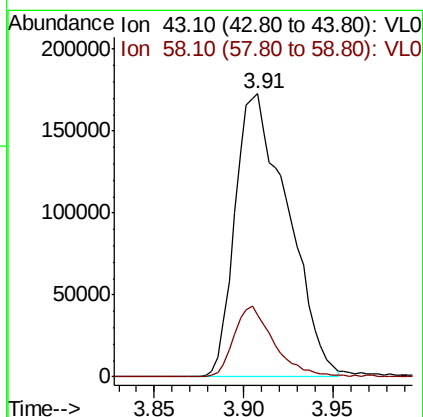
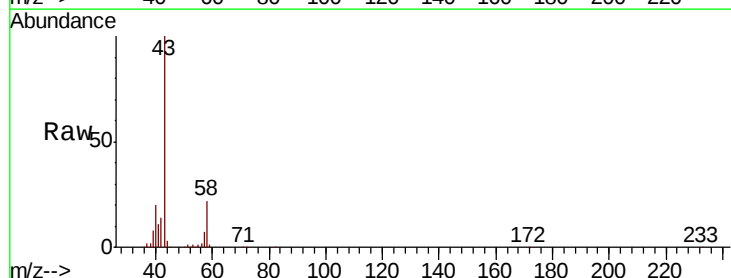
Acq: 21 Mar 2019 2:18

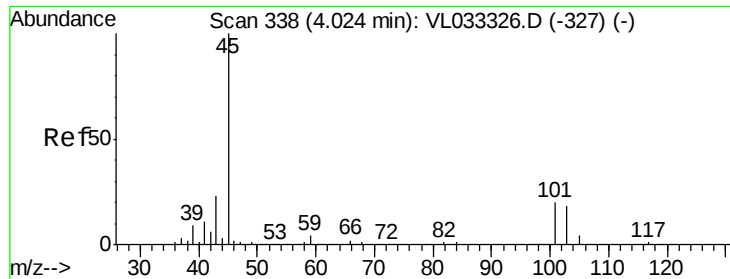
Tgt Ion: 43 Resp: 355286

Ion Ratio Lower Upper

43 100

58 19.3 20.4 30.6#





#19

Isopropyl Alcohol

Concen: 2.189 ppbv

RT: 4.03 min Scan# 341

Delta R.T. 0.01 min

Lab File: VL033407.D

Acq: 21 Mar 2019 2:18

Instrument :

MSVOA_L

ClientSampleId :

QA1DL

Tot Ion: 45 Resp: 129435

Ion Ratio Lower Upper

45 100

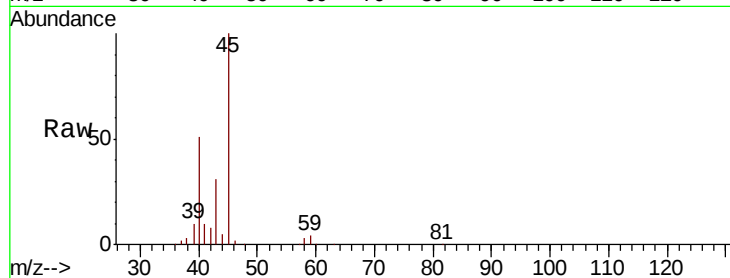
58 3.5 1.5 2.3#

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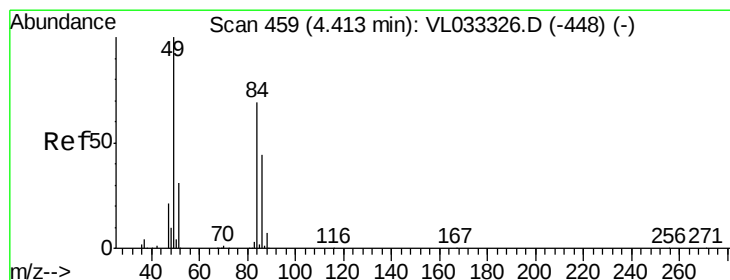
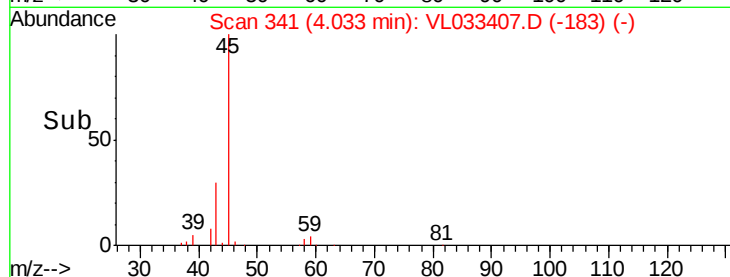
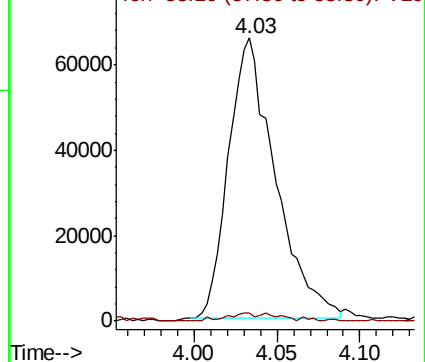
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Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 58.10 (57.80 to 58.80): VL0



#20

Methylene Chloride

Concen: 0.672 ppbv

RT: 4.41 min Scan# 458

Delta R.T. -0.00 min

Lab File: VL033407.D

Acq: 21 Mar 2019 2:18

Tgt Ion: 84 Resp: 27235

Ion Ratio Lower Upper

84 100

49 138.1 115.4 173.0

51 37.0 35.8 53.6

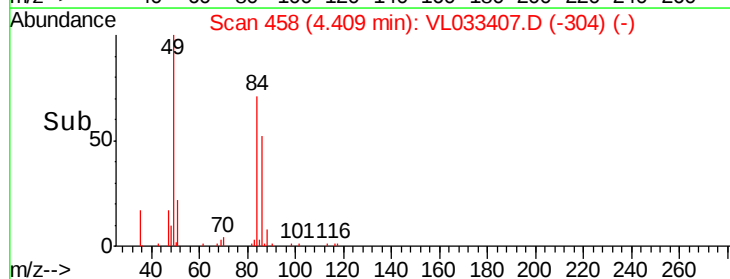
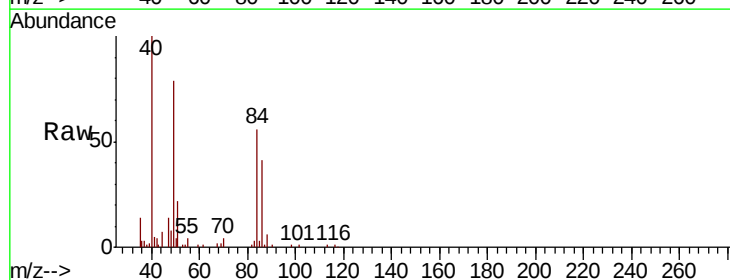
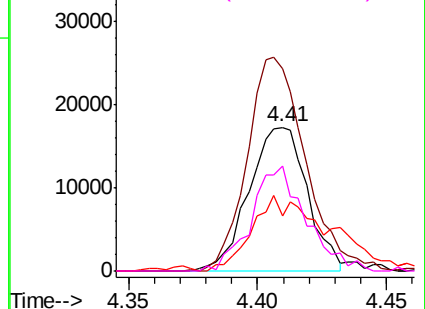
86 73.2 50.6 75.8

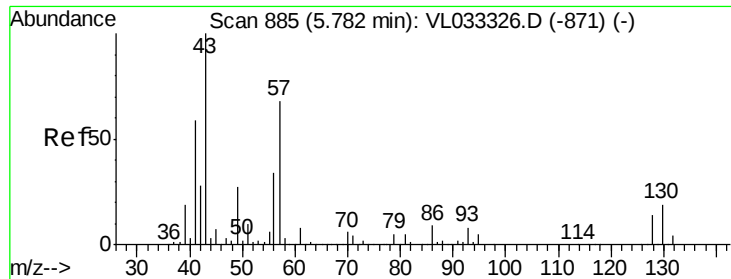
Abundance Ion 84.00 (83.70 to 84.70): VL0

Ion 49.10 (48.80 to 49.80): VL0

Ion 51.10 (50.80 to 51.80): VL0

Ion 86.00 (85.70 to 86.70): VL0





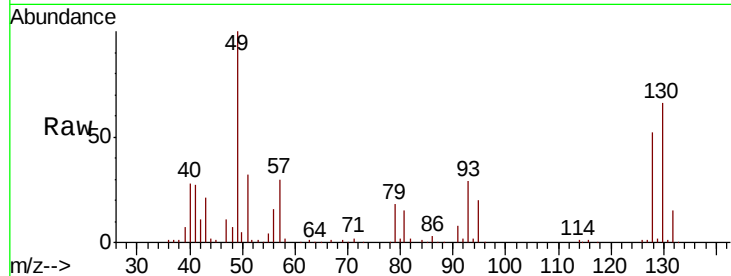
#26
Hexane
Concen: 0.858 ppbv
RT: 5.78 min Scan# 883
Delta R.T. -0.01 min
Lab File: VL033407.D
Acq: 21 Mar 2019 2:18

Instrument :
MSVOA_L
ClientSampleId :
QA1DL

Tot Ion	Ratio	Lower	Upper
57	100		
41	91.5	70.5	105.7
43	79.8	181.8	272.8#
56	55.1	42.2	63.2

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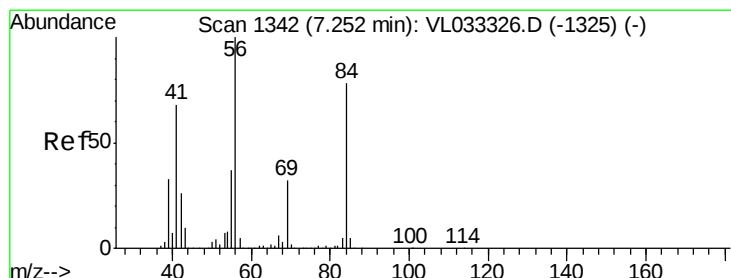
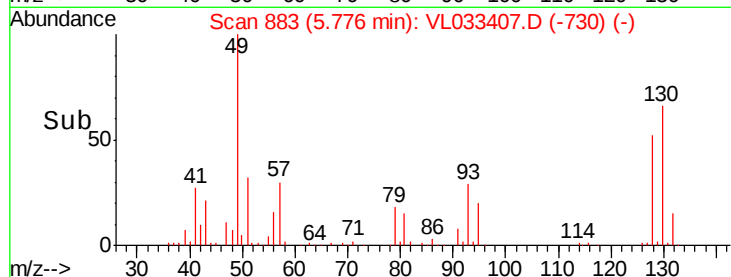
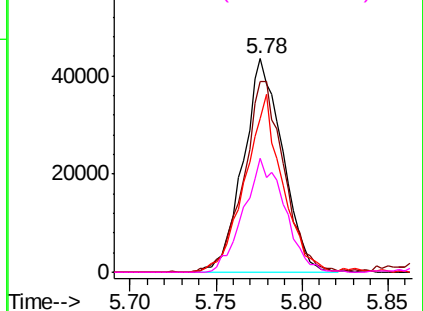
Abundance

Ion 57.10 (56.80 to 57.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 43.10 (42.80 to 43.80): VL0

Ion 56.10 (55.80 to 56.80): VL0



#30
Cyclohexane
Concen: 0.245 ppbv m
RT: 7.25 min Scan# 1341
Delta R.T. -0.00 min
Lab File: VL033407.D
Acq: 21 Mar 2019 2:18

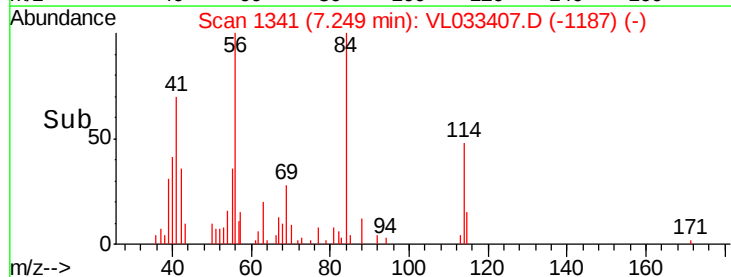
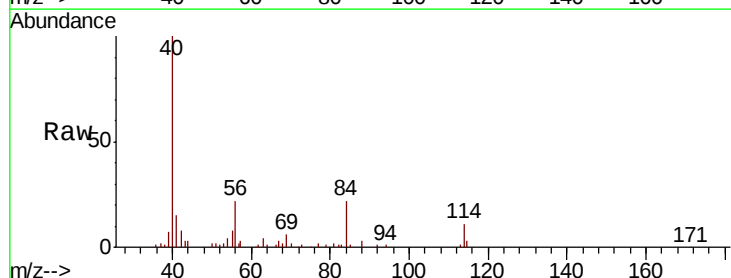
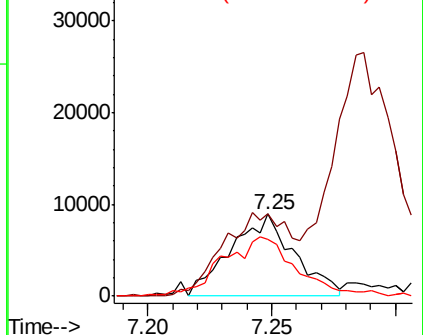
Tgt Ion	Ratio	Lower	Upper
84	100		
56	109.4	111.3	166.9#
41	0.0	69.6	104.4#

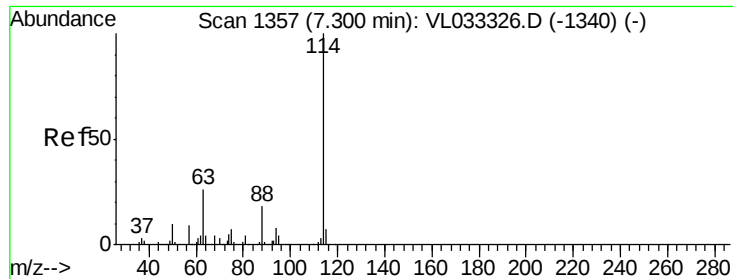
Abundance

Ion 84.20 (83.90 to 84.90): VL0

Ion 56.10 (55.80 to 56.80): VL0

Ion 41.10 (40.80 to 41.80): VL0





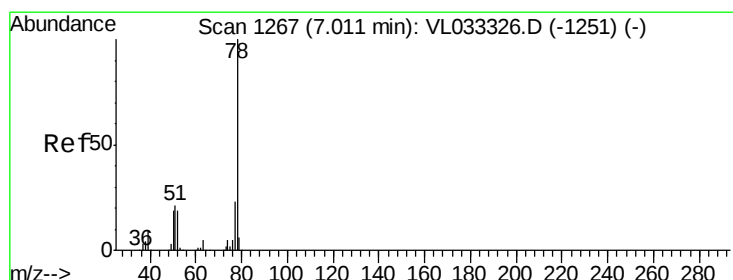
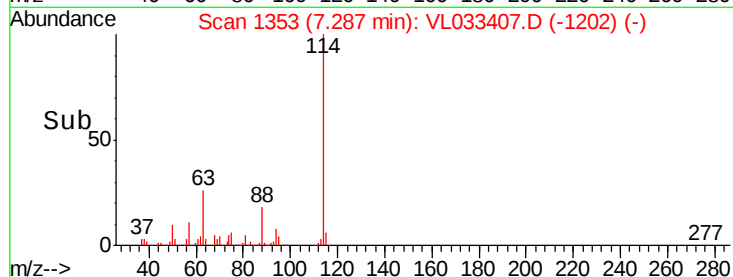
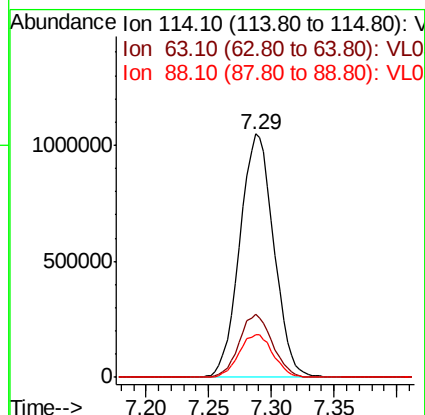
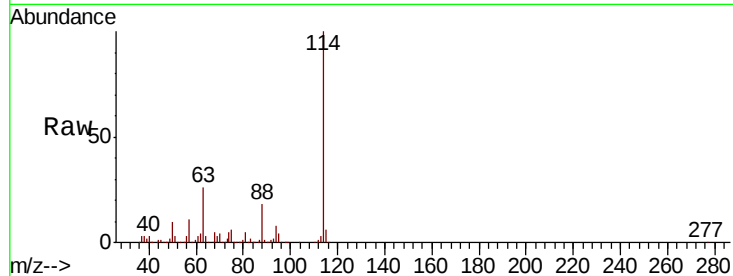
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.29 min Scan# 1353
 Delta R.T. -0.01 min
 Lab File: VL033407.D
 Acq: 21 Mar 2019 2:18

Instrument :
 MSVOA_L
 ClientSampleId :
 QA1DL

Tot Ion	Ratio	Lower	Upper
114	100		
63	25.4	21.4	32.2
88	17.8	14.5	21.7

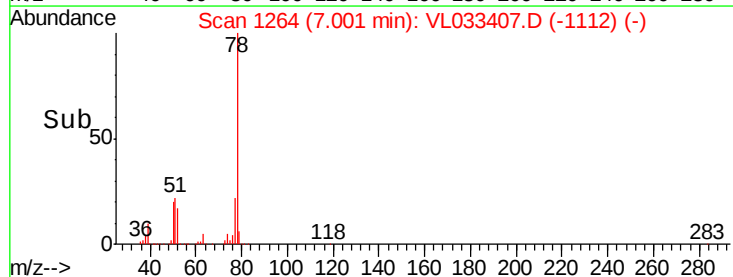
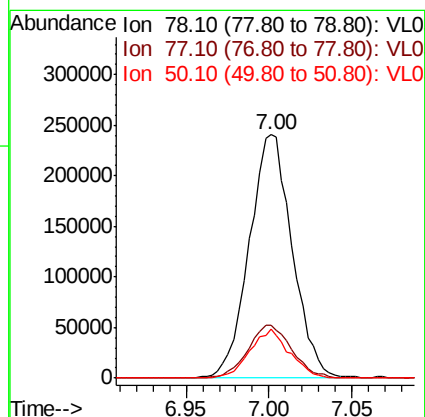
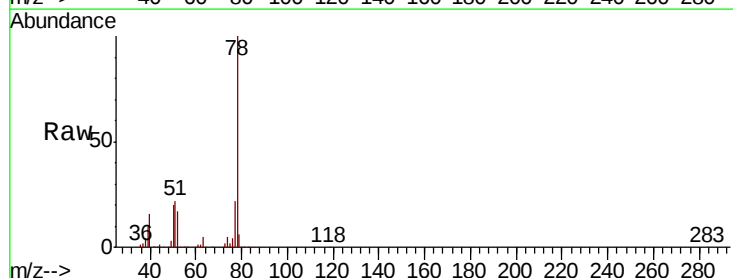
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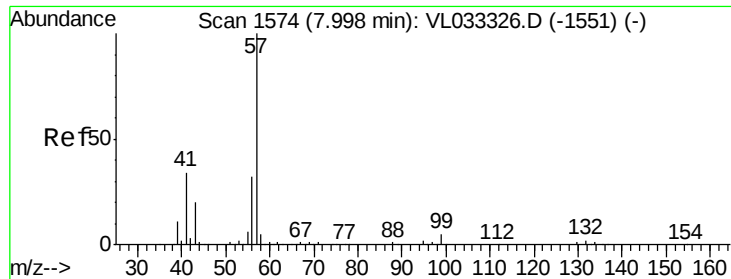
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#36
 Benzene
 Concen: 2.452 ppbv
 RT: 7.00 min Scan# 1264
 Delta R.T. -0.01 min
 Lab File: VL033407.D
 Acq: 21 Mar 2019 2:18

Tgt Ion	Ratio	Lower	Upper
78	100		
77	21.6	18.1	27.1
50	19.9	15.2	22.8





#44

2,2,4-Trimethylpentane

Concen: 0.282 ppbv m

RT: 7.99 min Scan# 1573

Delta R.T. -0.00 min

Lab File: VL033407.D

Acq: 21 Mar 2019 2:18

Instrument :

MSVOA_L

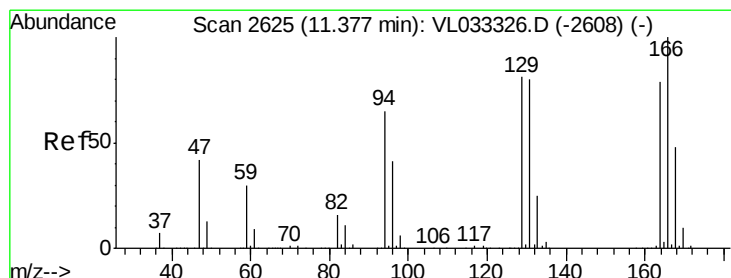
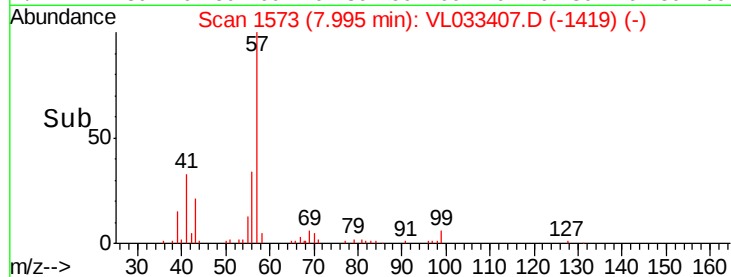
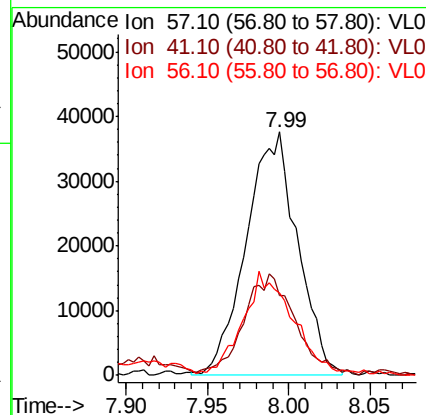
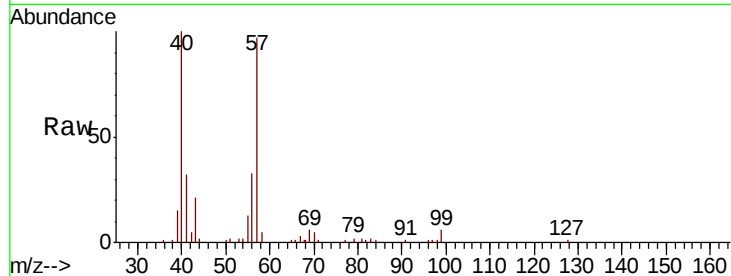
ClientSampled :

QA1DL

Tot Ion:	57	Resp:	82736
Ion Ratio	Lower	Upper	
57	100		
41	41.8	26.0	39.0#
56	42.3	24.6	36.8#

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#52

Tetrachloroethene

Concen: 0.191 ppbv m

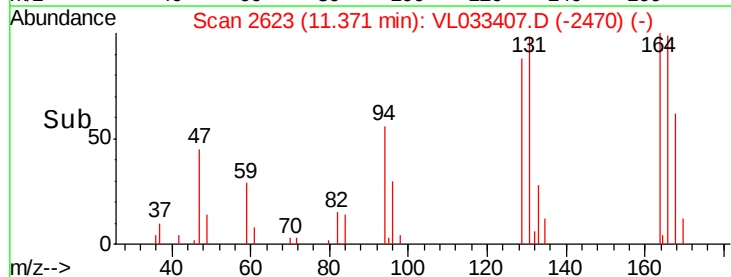
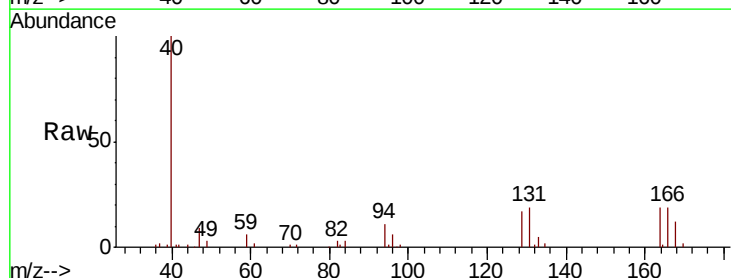
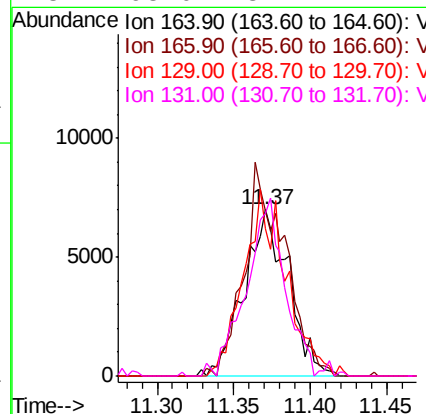
RT: 11.37 min Scan# 2623

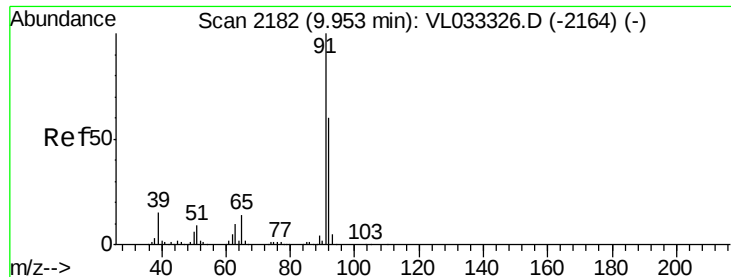
Delta R.T. -0.01 min

Lab File: VL033407.D

Acq: 21 Mar 2019 2:18

Tgt Ion:	164	Resp:	14119
Ion Ratio	Lower	Upper	
164	100		
166	99.4	101.5	152.3#
129	88.5	82.2	123.2
131	98.0	81.1	121.7





#53

Toluene

Concen: 3.090 ppbv

RT: 9.94 min Scan# 2178

Delta R.T. -0.01 min

Lab File: VL033407.D

Acq: 21 Mar 2019 2:18

Instrument :

MSVOA_L

ClientSampleId :

QA1DL

Tot Ion: 91 Resp: 621458

Ion Ratio Lower Upper

91 100

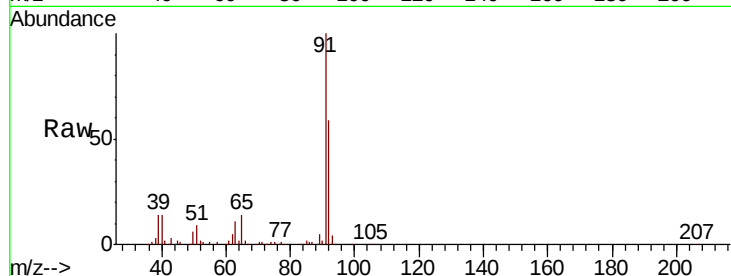
92 58.4 47.4 71.0

Manual Integrations

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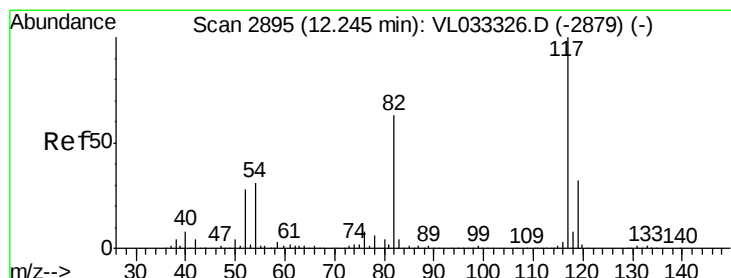
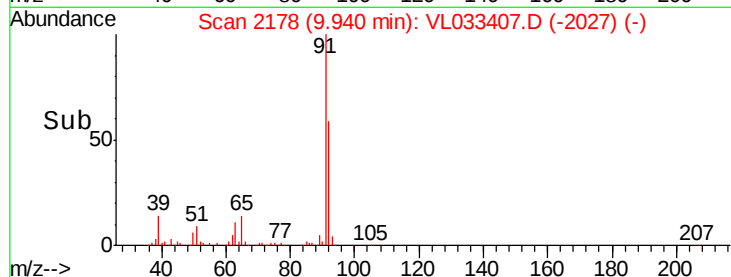
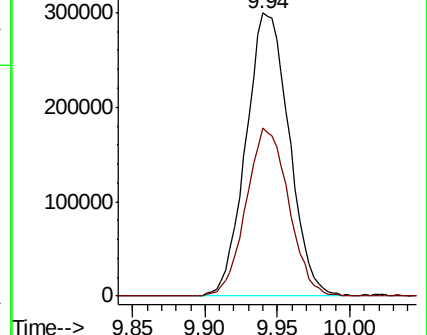
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Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.24 min Scan# 2892

Delta R.T. -0.01 min

Lab File: VL033407.D

Acq: 21 Mar 2019 2:18

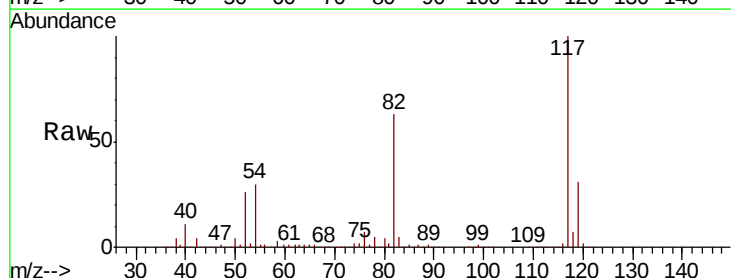
Tgt Ion: 117 Resp: 1864171

Ion Ratio Lower Upper

117 100

82 65.2 53.4 80.2

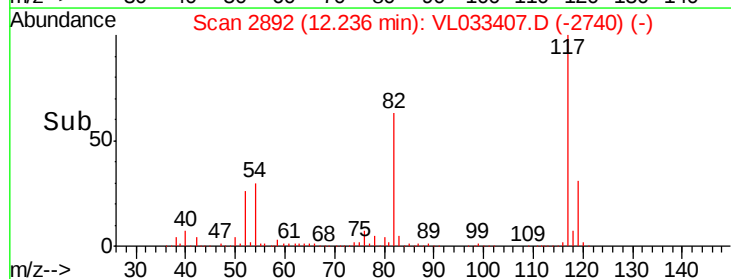
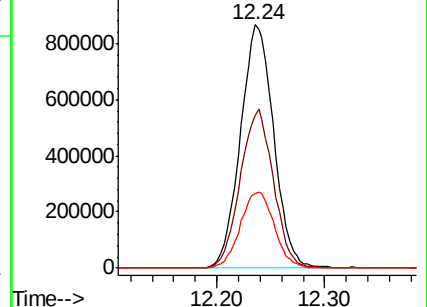
119 32.1 27.3 40.9

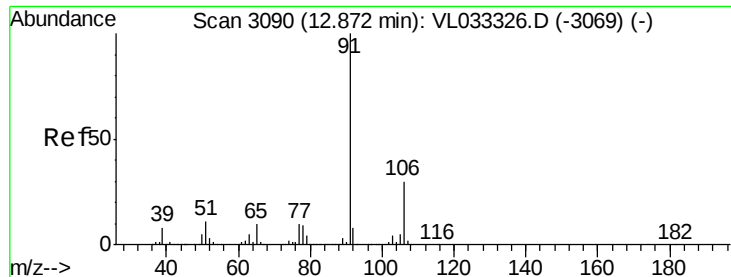


Abundance Ion 117.10 (116.80 to 117.80): V

Ion 82.10 (81.80 to 82.80): VL0

Ion 119.10 (118.80 to 119.80): V





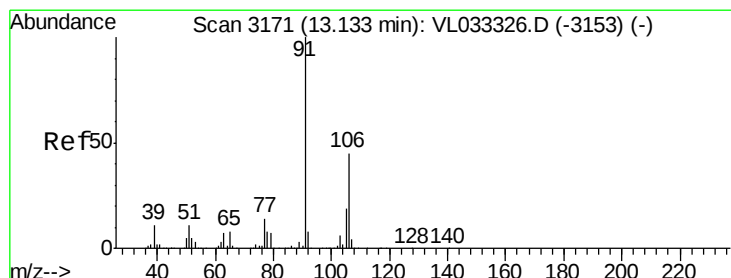
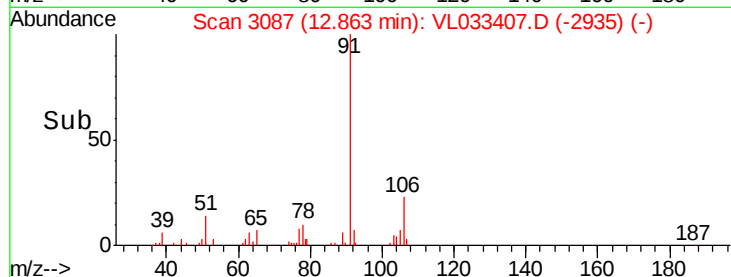
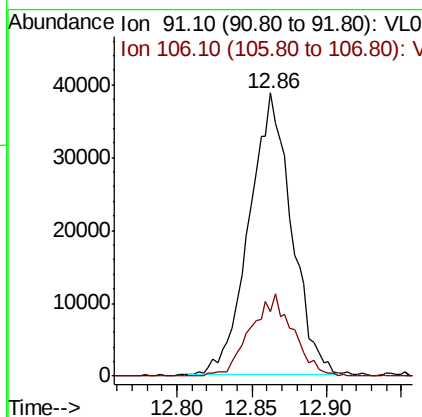
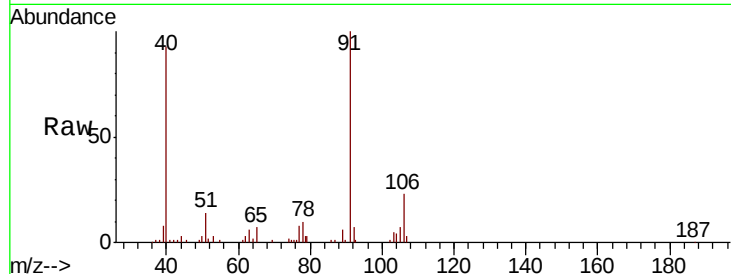
#58
Ethyl Benzene
Concen: 0.291 ppbv
RT: 12.86 min Scan# 3087
Delta R.T. -0.01 min
Lab File: VL033407.D
Acq: 21 Mar 2019 2:18

Instrument :
MSVOA_L
ClientSampleID :
QA1DL

Tot Ion: 91 Resp: 76659
Ion Ratio Lower Upper
91 100
106 23.1 24.2 36.2#

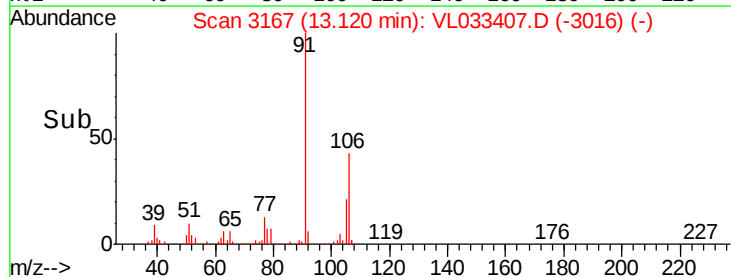
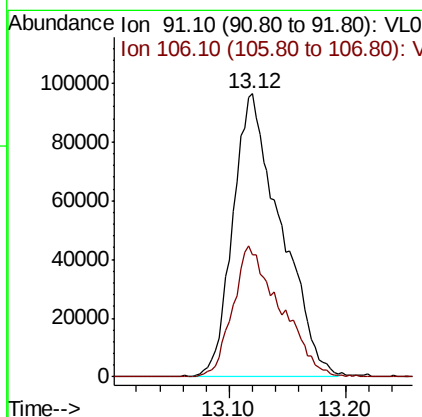
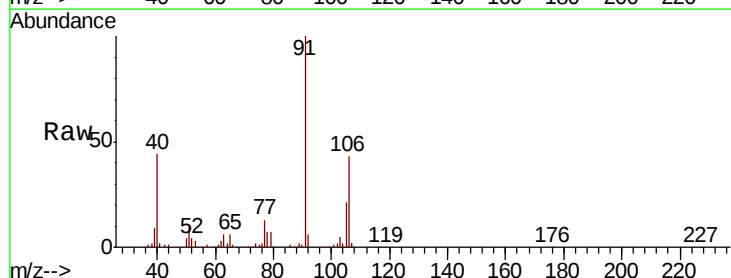
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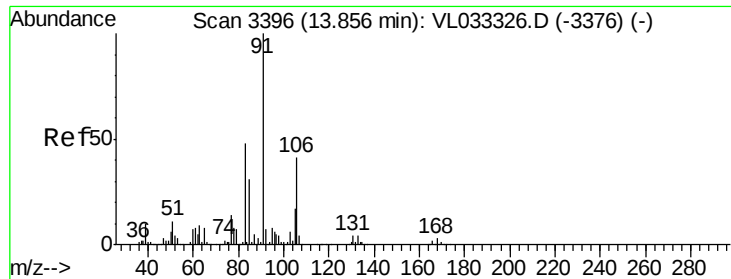
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#59
m/p-Xylene
Concen: 1.213 ppbv
RT: 13.12 min Scan# 3167
Delta R.T. -0.01 min
Lab File: VL033407.D
Acq: 21 Mar 2019 2:18

Tgt Ion: 91 Resp: 274849
Ion Ratio Lower Upper
91 100
106 46.2 0.0 0.0#





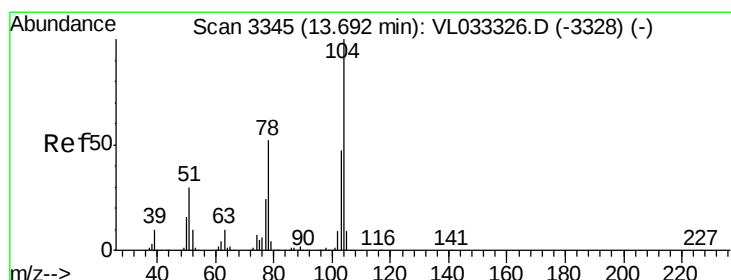
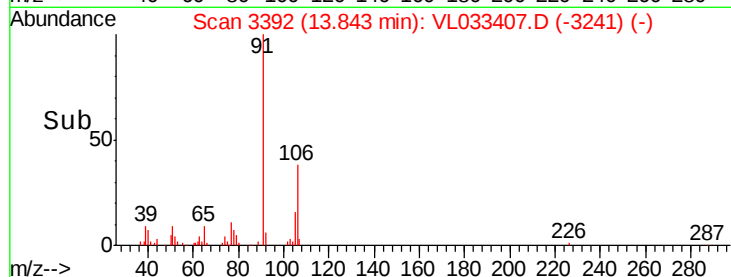
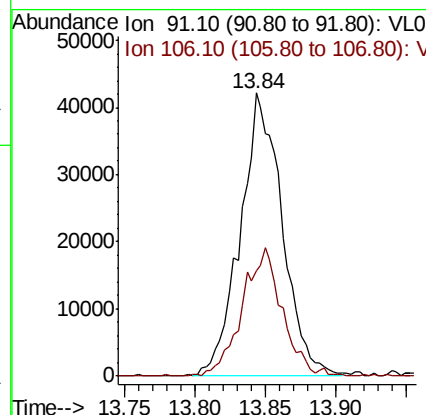
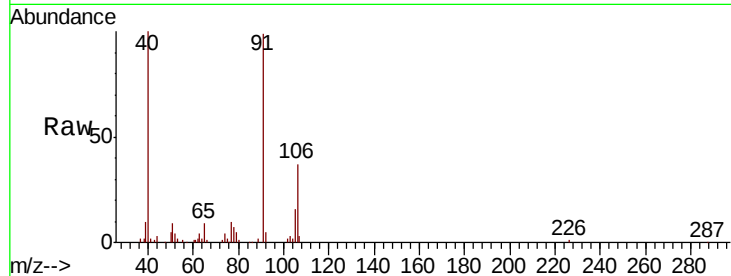
#60
o-Xylene
Concen: 0.392 ppbv
RT: 13.84 min Scan# 3392
Delta R.T. -0.01 min
Lab File: VL033407.D
Acq: 21 Mar 2019 2:18

Instrument :
MSVOA_L
ClientSampleID :
QA1DL

Tot Ion: 91 Resp: 86667
Ion Ratio Lower Upper
91 100
106 43.9 21.3 63.9

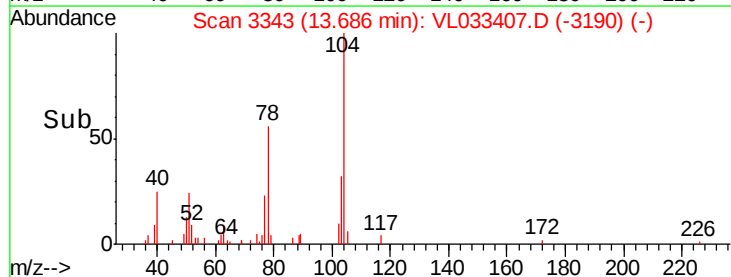
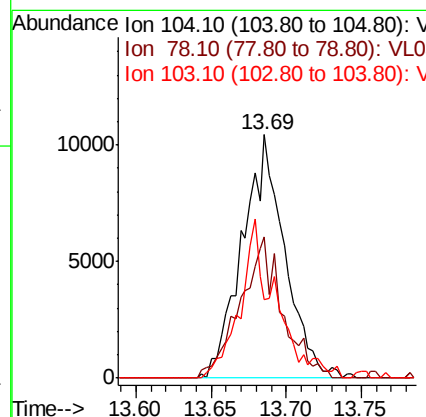
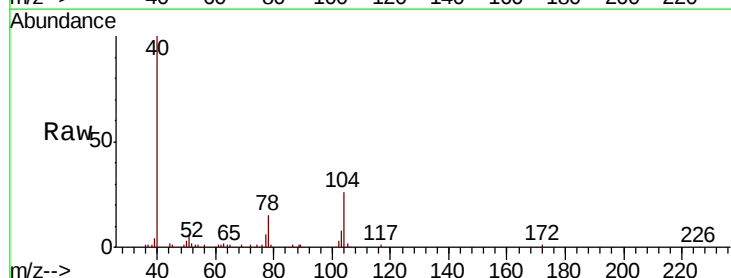
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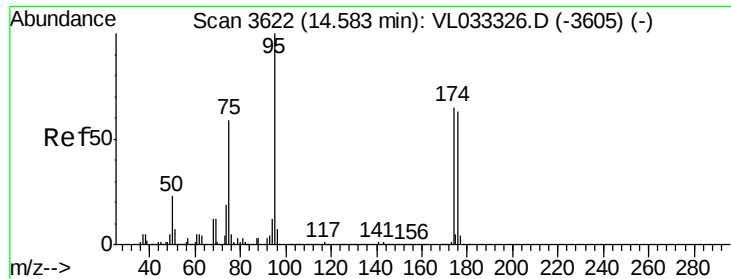
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#61
Styrene
Concen: 0.133 ppbv m
RT: 13.69 min Scan# 3343
Delta R.T. -0.01 min
Lab File: VL033407.D
Acq: 21 Mar 2019 2:18

Tgt Ion: 104 Resp: 20515
Ion Ratio Lower Upper
104 100
78 0.0 42.7 64.1#
103 54.9 38.0 57.0





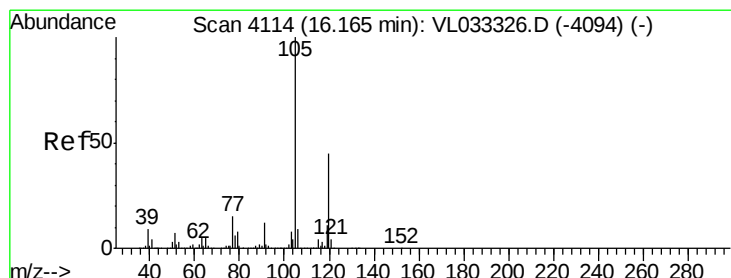
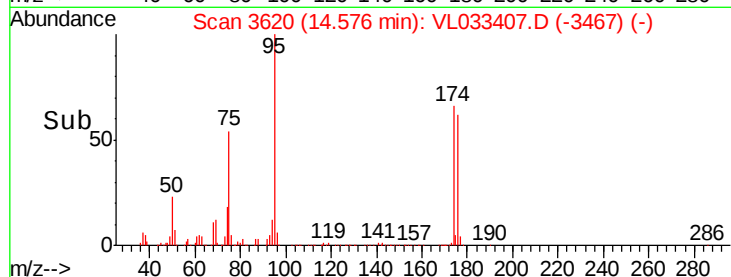
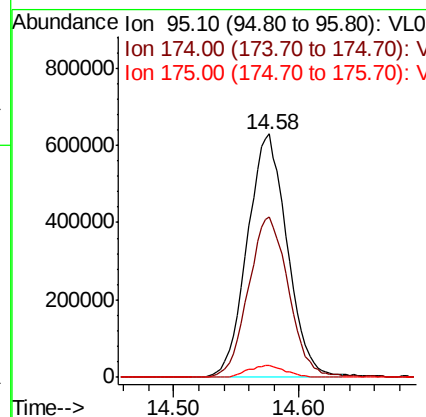
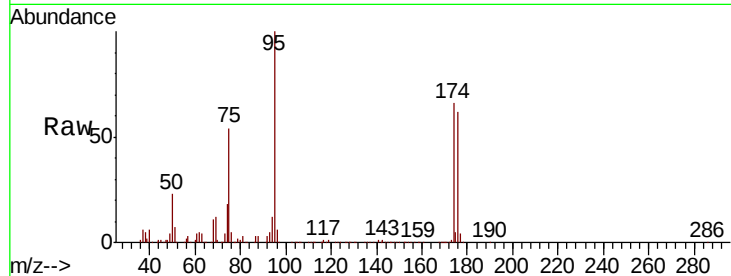
#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.058 ppbv
 RT: 14.58 min Scan# 3620
 Delta R.T. -0.01 min
 Lab File: VL033407.D
 Acq: 21 Mar 2019 2:18

Instrument :
 MSVOA_L
 ClientSampleId :
 OA1DL

Tot Ion: 95 Resp: 1389349
 Ion Ratio Lower Upper
 95 100
 174 66.5 51.5 77.3
 175 4.8 3.8 5.6

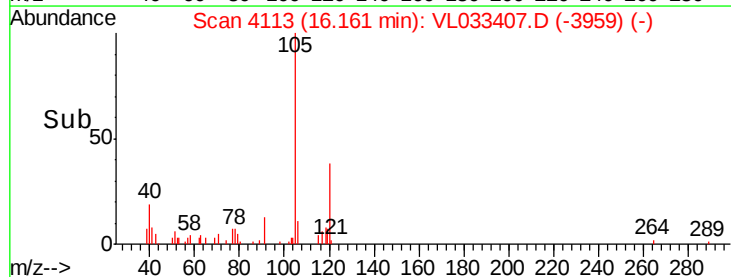
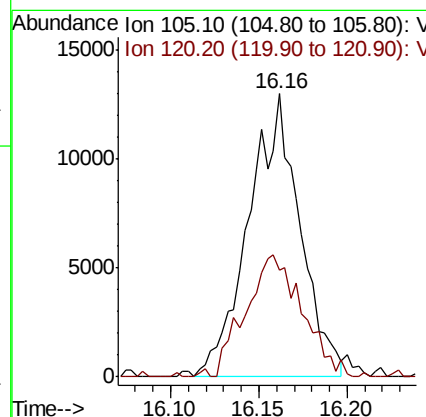
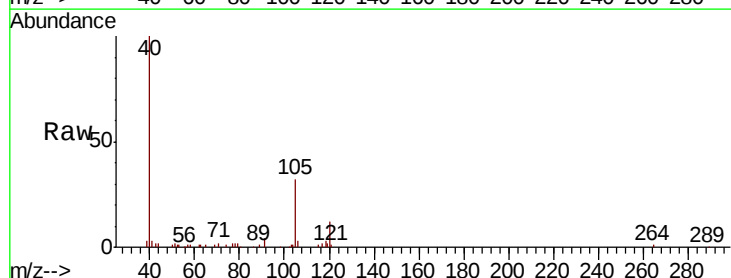
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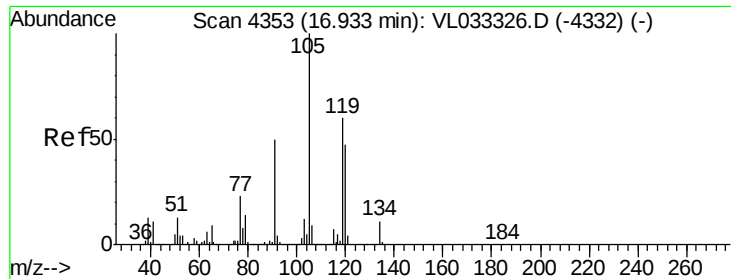
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#73
 1,3,5-Trimethylbenzene
 Concen: 0.107 ppbv m
 RT: 16.16 min Scan# 4113
 Delta R.T. -0.00 min
 Lab File: VL033407.D
 Acq: 21 Mar 2019 2:18

Tgt Ion: 105 Resp: 26271
 Ion Ratio Lower Upper
 105 100
 120 37.7 36.2 54.4





#74
 1,2,4-Trimethylbenzene
 Concen: 0.353 ppbv
 RT: 16.93 min Scan# 4351
 Delta R.T. -0.01 min
 Lab File: VL033407.D
 Acq: 21 Mar 2019 2:18

Instrument :
 MSVOA_L
 ClientSampleId :
 OA1DL

Tot Ion:	105	Resp:	91550
Ion Ratio	Lower	Upper	
105	100		
120	39.6	37.4	56.2
91	15.4	41.0	61.4#
77	16.1	18.5	27.7#

Manual Integrations
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