

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL030620\
 Data File : VL034834.D
 Acq On : 7 Mar 2020 3:33
 Operator : SY/AP
 Sample : L1698-08DL2 300X
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SS-2-4DL2

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Quant Time: Mar 07 09:35:50 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL030420AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed Mar 07 09:35:50 2020
 QLast Update : Wed Mar 04 06:36:39 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.65	49	892130	10.00	ppbv	-0.03
33) 1,4-Difluorobenzene	7.18	114	2029902	10.00	ppbv	-0.03
55) Chlorobenzene-d5	12.10	117	2013869	10.00	ppbv	-0.04

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.45	95	1570776	9.35	ppbv	-0.03
Spiked Amount	10.000	Range	65 - 135	Recovery	=	93.50%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
5) Vinyl Chloride	3.22	62	249211	4.309	ppbv	96
9) Propene	2.97	41	43101	1.077	ppbv	92
10) Heptane	8.13	43	82886	0.815	ppbv	98
26) Hexane	5.68	57	125699	1.559	ppbv #	40
30) Cyclohexane	7.13	84	92798	1.504	ppbv #	78
31) cis-1,2-Dichloroethene	5.54	61	1216616	14.708	ppbv	97
36) Benzene	6.89	78	109957	0.634	ppbv	94
38) Trichloroethene	7.84	130	116260	1.720	ppbv	96
44) 2,2,4-Trimethylpentane	7.87	57	223964	0.739	ppbv #	76
52) Tetrachloroethene	11.25	164	40148	0.626	ppbv #	83
53) Toluene	9.83	91	38988m	0.212	ppbv	

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

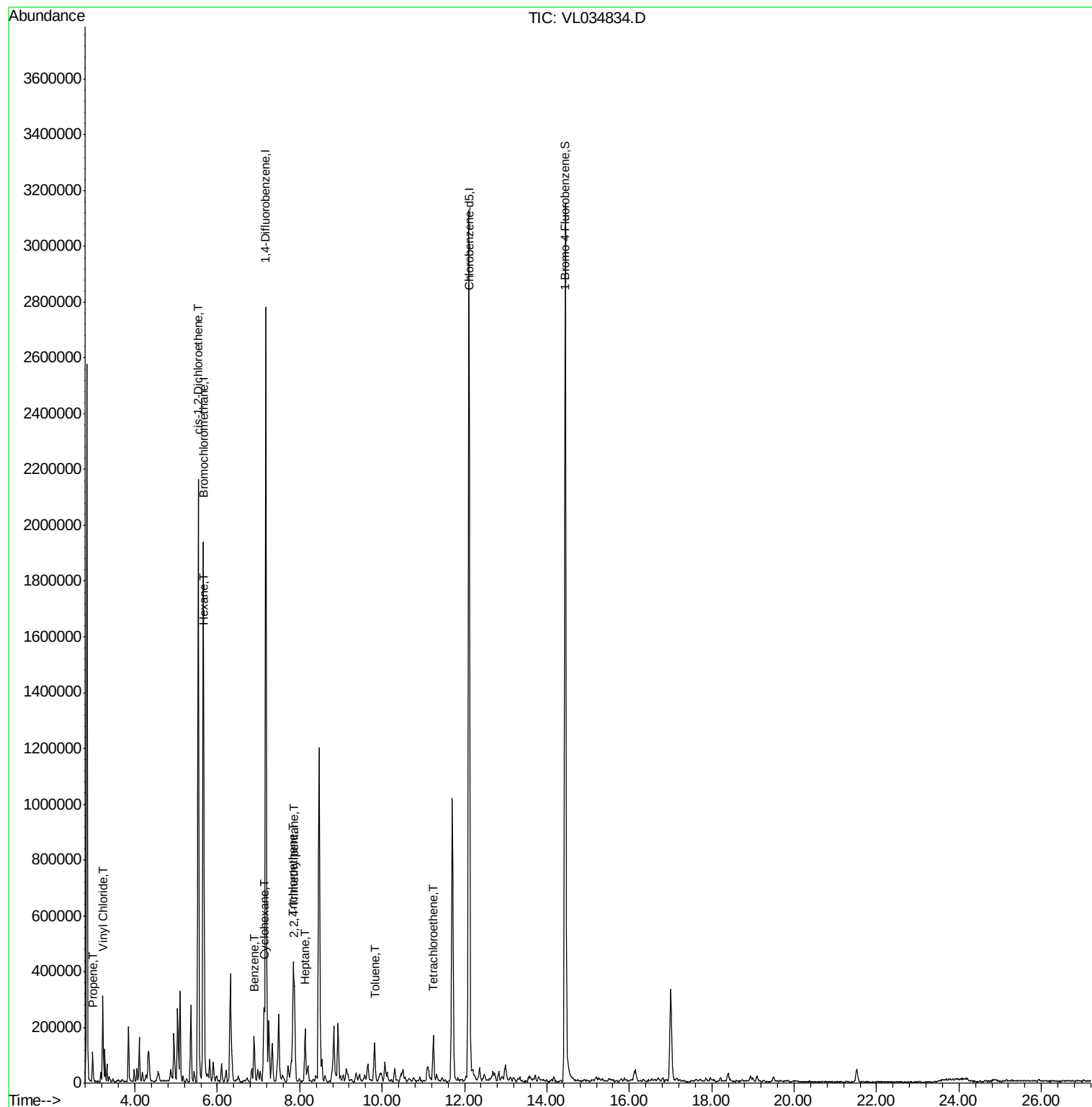
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL030620\
Data File : VL034834.D
Acq On : 7 Mar 2020 3:33
Operator : SY/AP
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Misc : 400ml/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

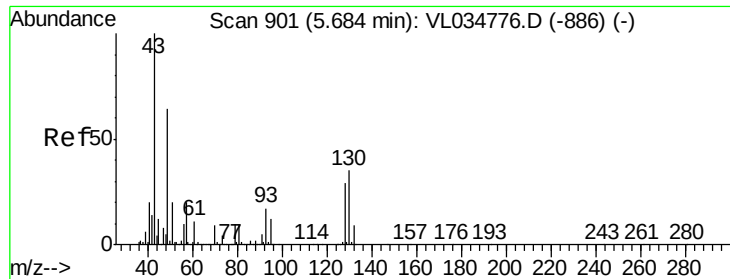
Instrument :
MSVOA_L
ClientSampleId :
SS-2-4DL2

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Quant Time: Mar 07 09:35:50 2020
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL030420AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed Mar
QLast Update : Wed Mar 04 06:36:39 2020
Response via : Initial Calibration





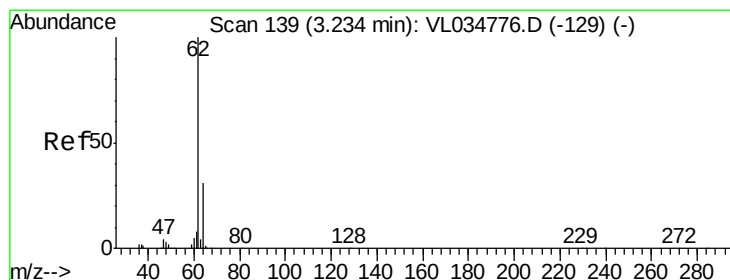
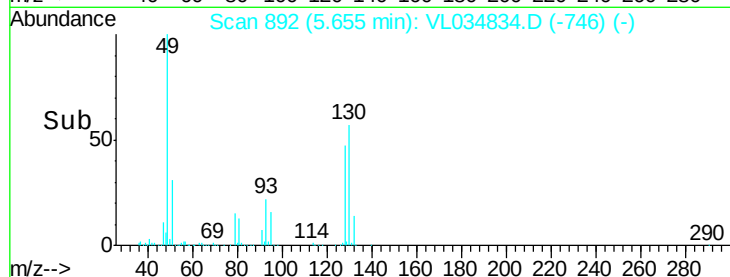
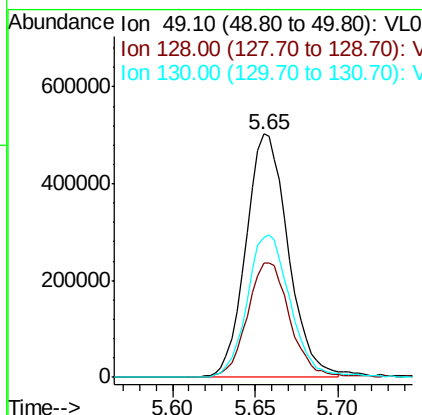
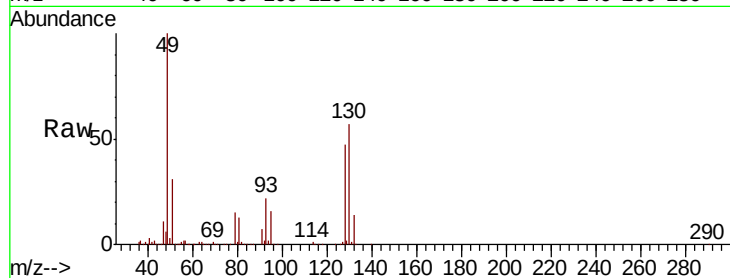
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.65 min Scan# 892
Delta R.T. -0.03 min
Lab File: VL034834.D
Acq: 7 Mar 2020 3:33

Instrument :
MSVOA_L
ClientSampleId :
SS-2-4DL2

Tot Ion	Ratio	Lower	Upper
49	100		
128	48.0	21.6	64.6
130	60.5	27.4	82.2

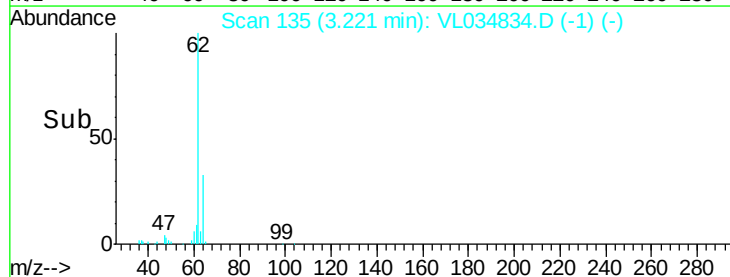
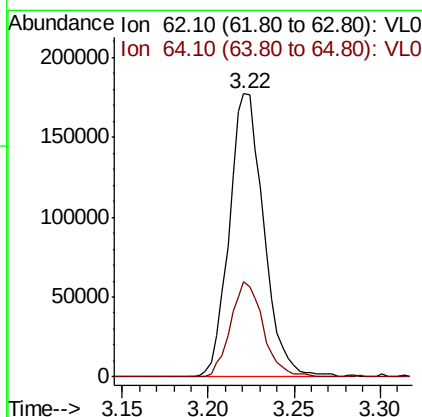
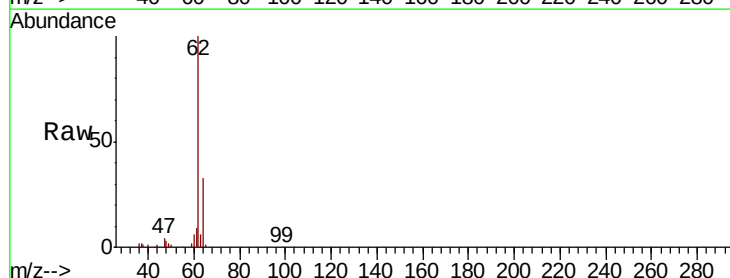
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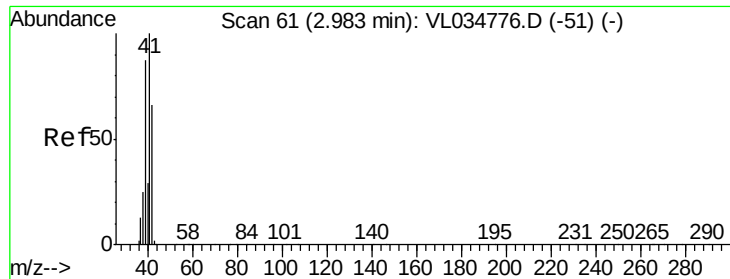
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#5
Vinyl Chloride
Concen: 4.309 ppbv
RT: 3.22 min Scan# 135
Delta R.T. -0.01 min
Lab File: VL034834.D
Acq: 7 Mar 2020 3:33

Tgt Ion	Ratio	Lower	Upper
62	100		
64	33.4	25.1	37.7





#9

Propene

Concen: 1.077 ppbv

RT: 2.97 min Scan# 57

Delta R.T. -0.01 min

Lab File: VL034834.D

Acq: 7 Mar 2020 3:33

Instrument :

MSVOA_L

ClientSampleId :

SS-2-4DL2

Tot Ion: 41 Resp: 43101

Ion Ratio Lower Upper

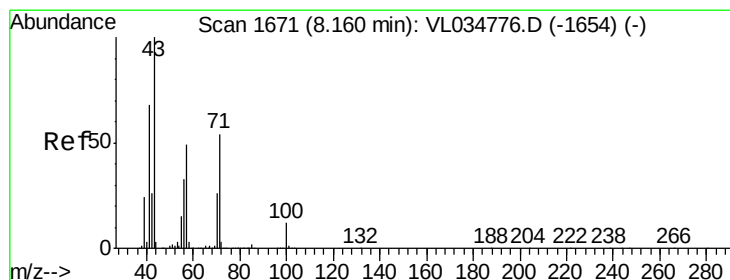
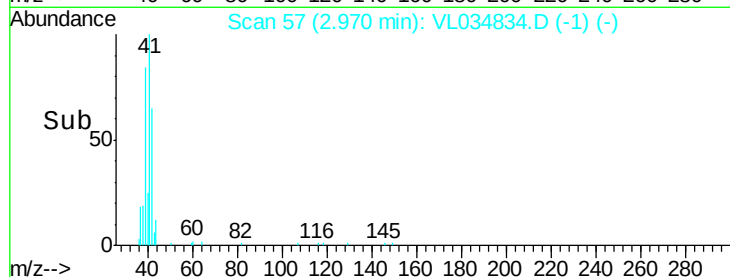
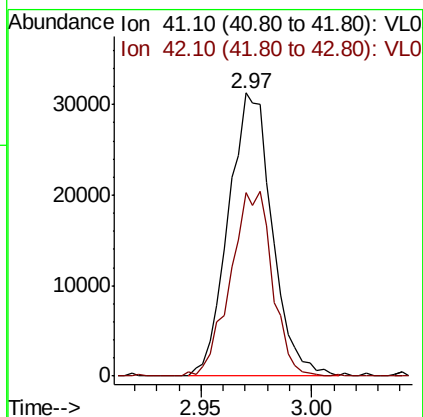
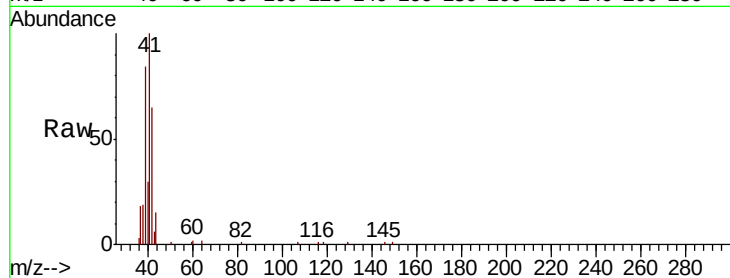
41 100

42 62.7 55.6 83.4

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#10

Heptane

Concen: 0.815 ppbv

RT: 8.13 min Scan# 1662

Delta R.T. -0.03 min

Lab File: VL034834.D

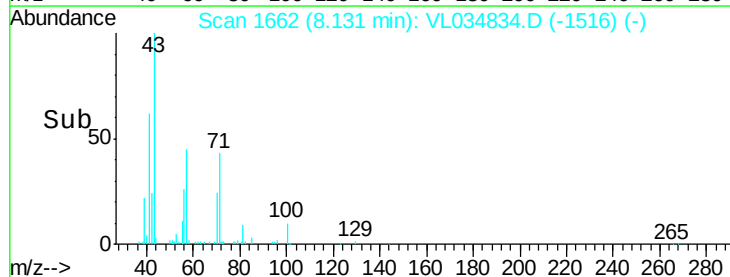
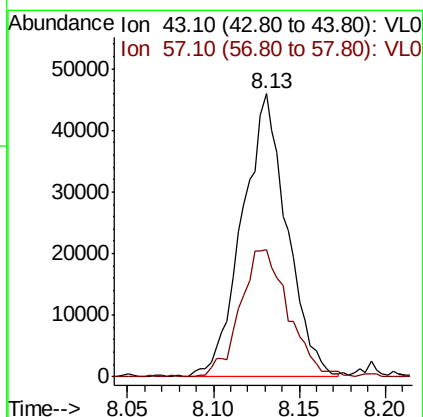
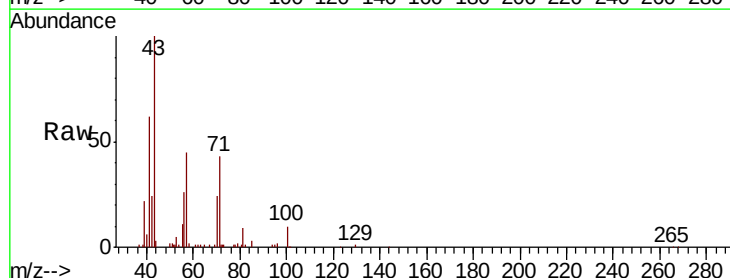
Acq: 7 Mar 2020 3:33

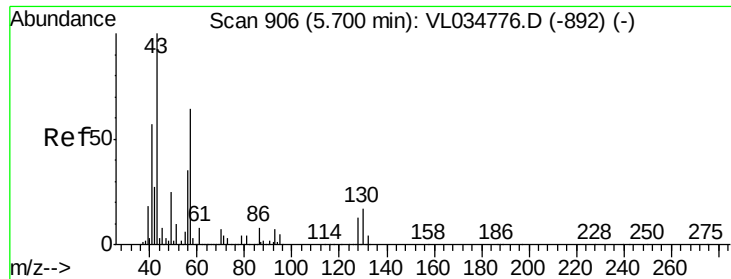
Tgt Ion: 43 Resp: 82886

Ion Ratio Lower Upper

43 100

57 49.1 40.5 60.7





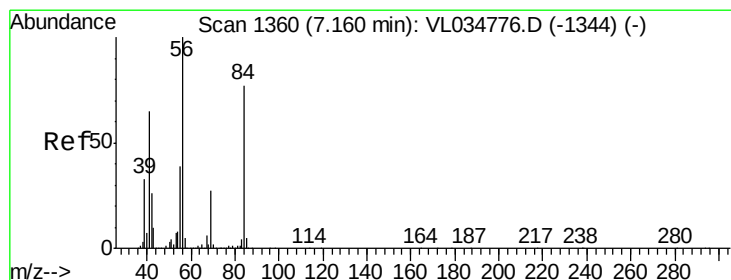
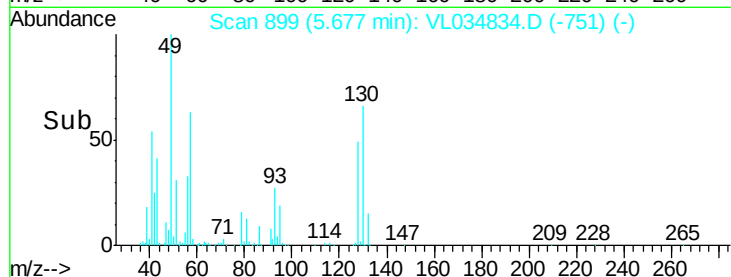
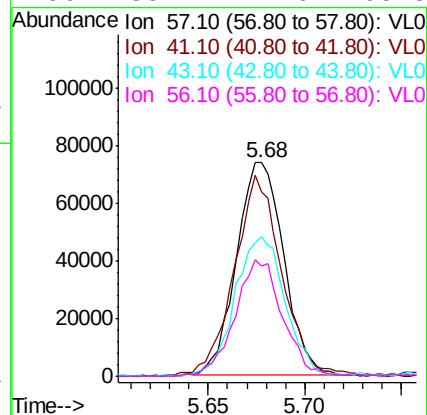
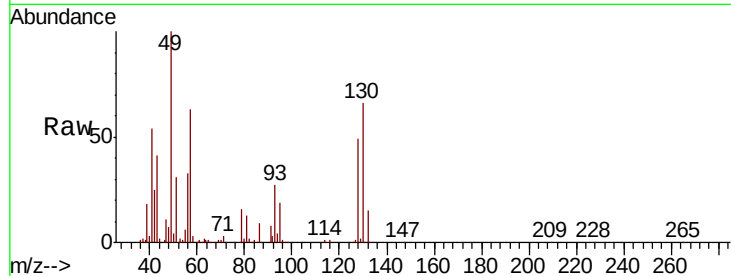
#26
Hexane
Concen: 1.559 ppbv
RT: 5.68 min Scan# 899
Delta R.T. -0.02 min
Lab File: VL034834.D
Acq: 7 Mar 2020 3:33

Instrument :
MSVOA_L
ClientSampled :
SS-2-4DL2

Tot Ion	Ratio	Lower	Upper
57	100		
41	95.4	72.0	108.0
43	70.1	179.1	268.7#
56	55.2	42.6	63.8

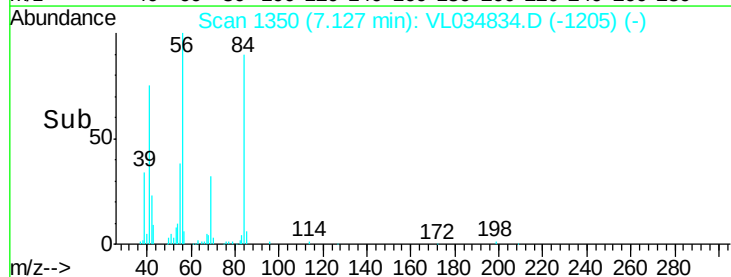
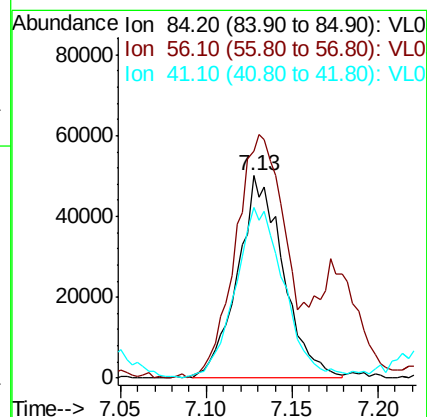
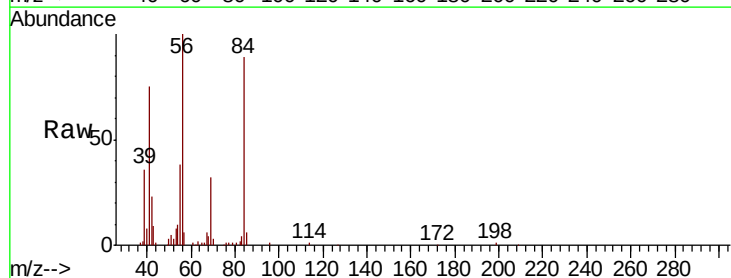
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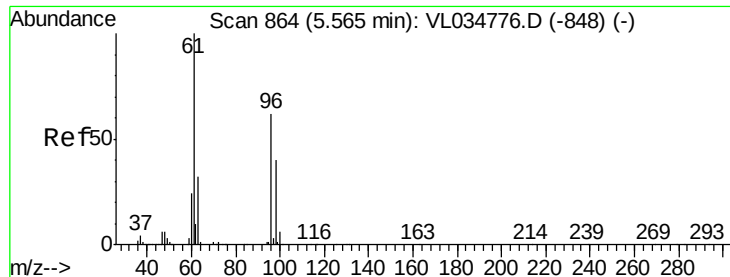
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#30
Cyclohexane
Concen: 1.504 ppbv
RT: 7.13 min Scan# 1350
Delta R.T. -0.03 min
Lab File: VL034834.D
Acq: 7 Mar 2020 3:33

Tgt Ion	Ratio	Lower	Upper
84	100		
56	184.8	113.2	169.8#
41	89.3	70.2	105.4





#31

cis-1,2-Dichloroethene

Concen: 14.708 ppbv

RT: 5.54 min Scan# 855

Delta R.T. -0.03 min

Lab File: VL034834.D

Acq: 7 Mar 2020 3:33

Instrument :

MSVOA_L

ClientSampleId :

SS-2-4DL2

Tot Ion: 61 Resp: 1216616

Ion Ratio Lower Upper

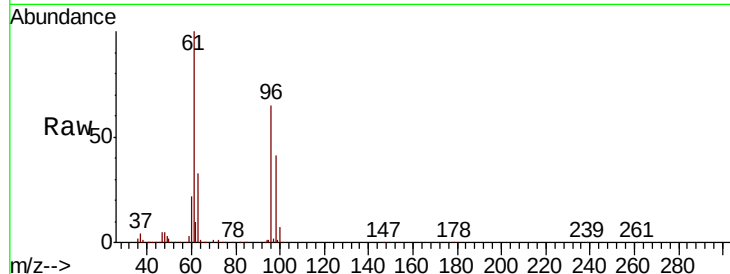
61 100

96 64.6 49.7 74.5

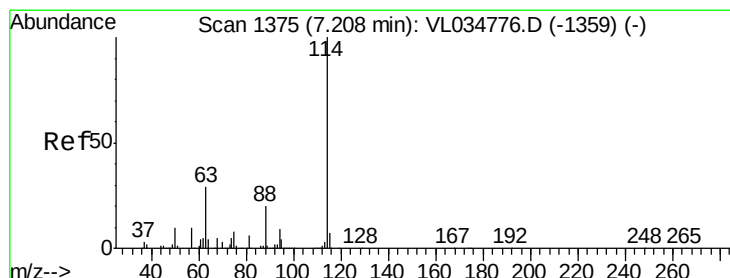
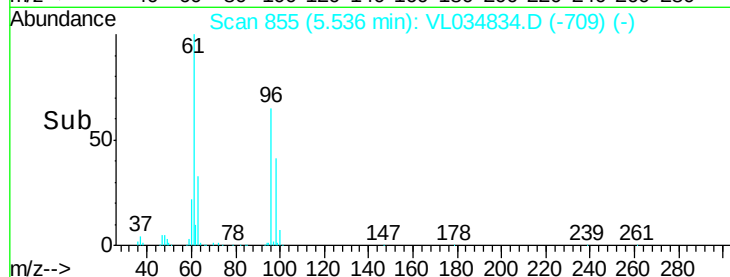
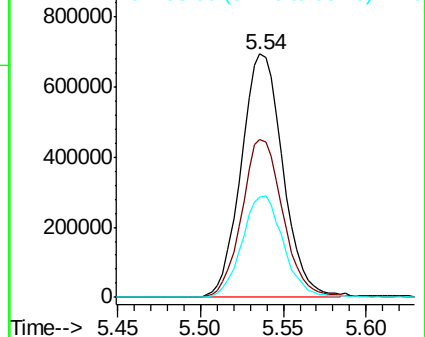
98 41.2 31.9 47.9

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Abundance Ion 61.10 (60.80 to 61.80): VL0
Ion 96.00 (95.70 to 96.70): VL0
Ion 98.00 (97.70 to 98.70): VL0



#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.18 min Scan# 1366

Delta R.T. -0.03 min

Lab File: VL034834.D

Acq: 7 Mar 2020 3:33

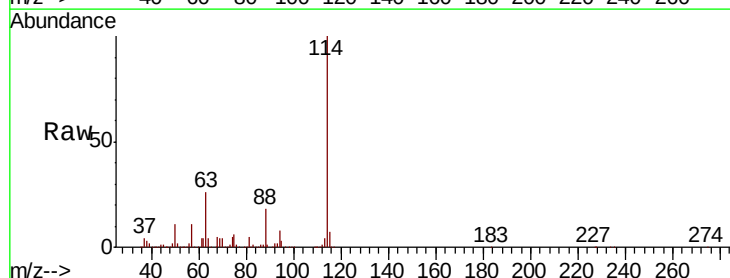
Tgt Ion: 114 Resp: 2029902

Ion Ratio Lower Upper

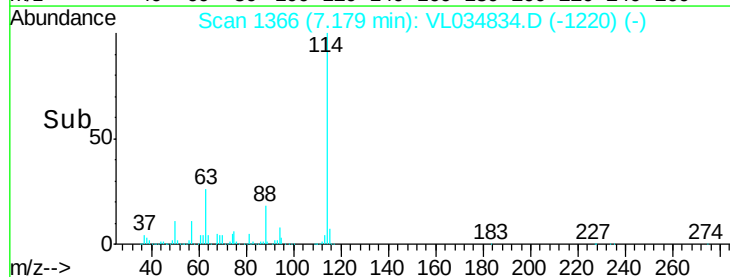
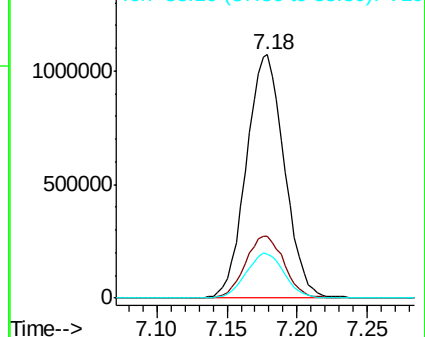
114 100

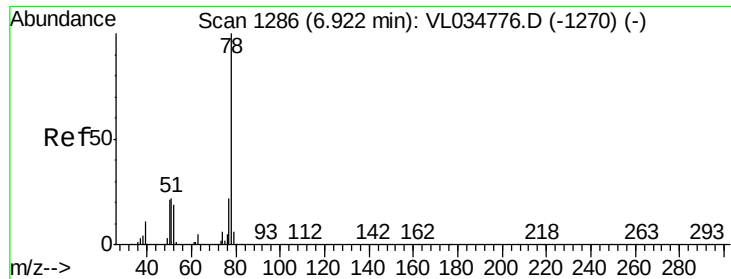
63 25.9 23.6 35.4

88 18.7 15.8 23.8



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





#36

Benzene

Concen: 0.634 ppbv

RT: 6.89 min Scan# 1277

Delta R.T. -0.03 min

Lab File: VL034834.D

Acq: 7 Mar 2020 3:33

Instrument :

MSVOA_L

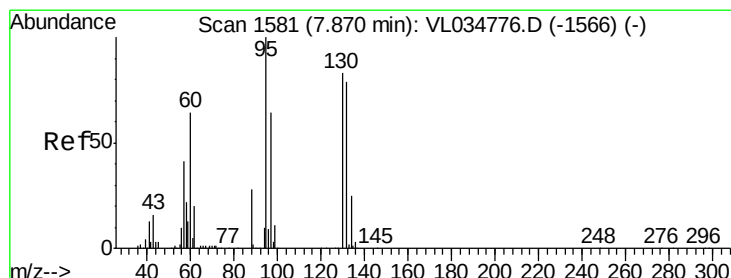
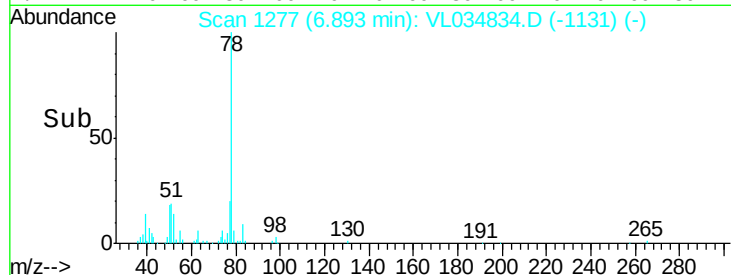
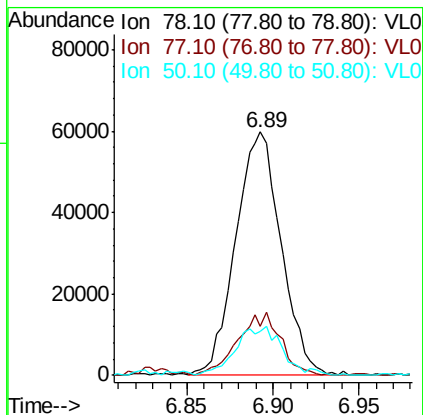
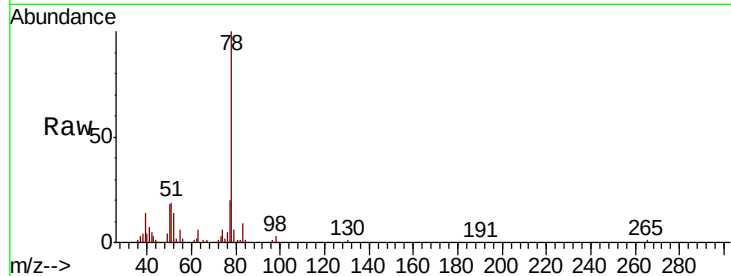
ClientSampleId :

SS-2-4DL2

Tot Ion:	78	Resp:	109957
Ion Ratio		Lower	Upper
78	100		
77	20.2	18.0	27.0
50	17.4	16.9	25.3

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#38

Trichloroethene

Concen: 1.720 ppbv

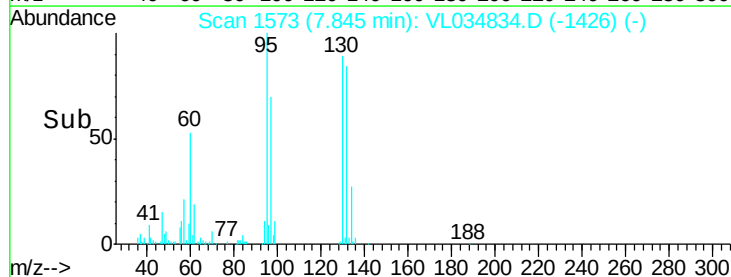
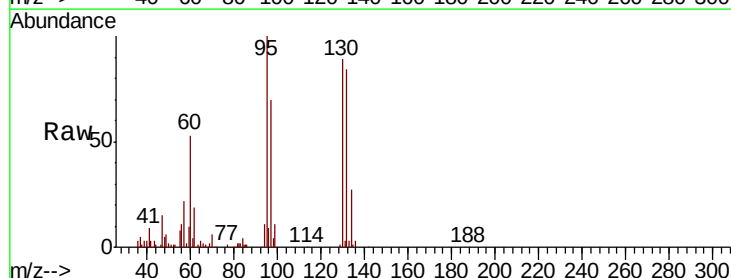
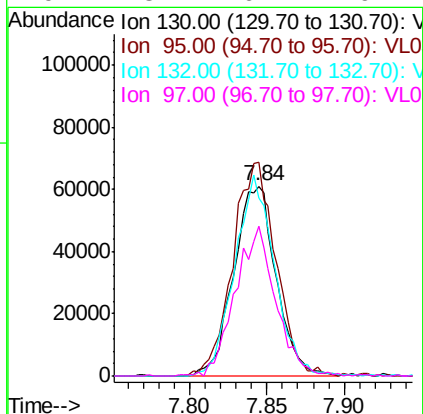
RT: 7.84 min Scan# 1573

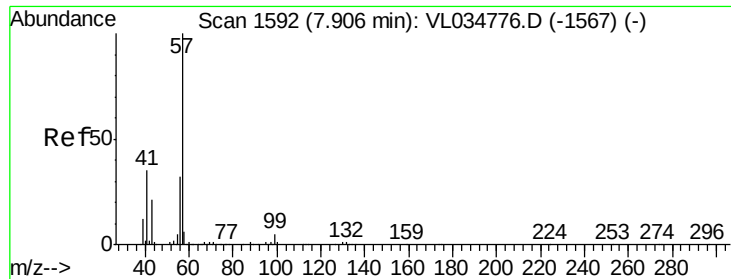
Delta R.T. -0.03 min

Lab File: VL034834.D

Acq: 7 Mar 2020 3:33

Tgt Ion:	130	Resp:	116260
Ion Ratio		Lower	Upper
130	100		
95	112.4	95.8	143.8
132	94.2	76.1	114.1
97	78.4	61.1	91.7





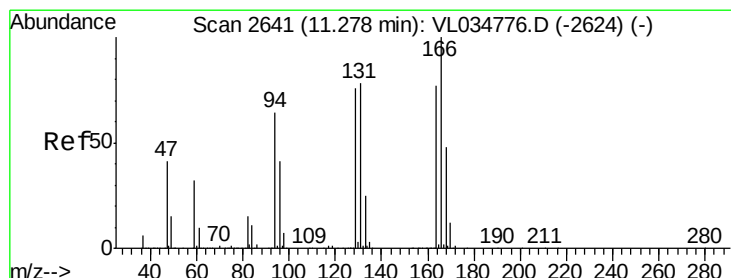
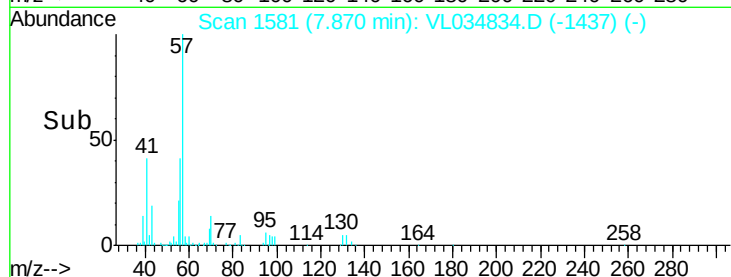
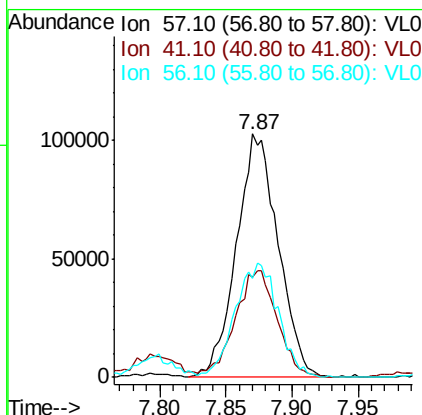
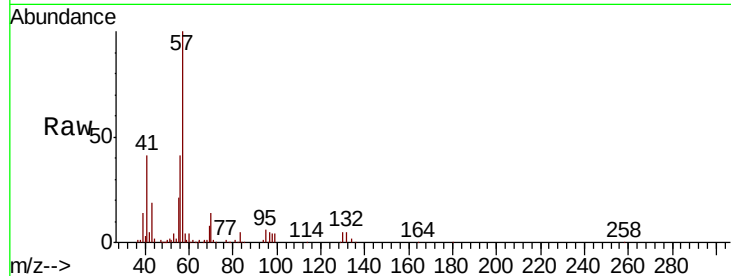
#44
 2,2,4-Trimethylpentane
 Concen: 0.739 ppbv
 RT: 7.87 min Scan# 1581
 Delta R.T. -0.04 min
 Lab File: VL034834.D
 Acq: 7 Mar 2020 3:33

Instrument :
 MSVOA_L
 ClientSampleID :
 SS-2-4DL2

Tot Ion	Ratio	Lower	Upper
57	100		
41	44.7	27.4	41.0#
56	47.7	25.0	37.6#

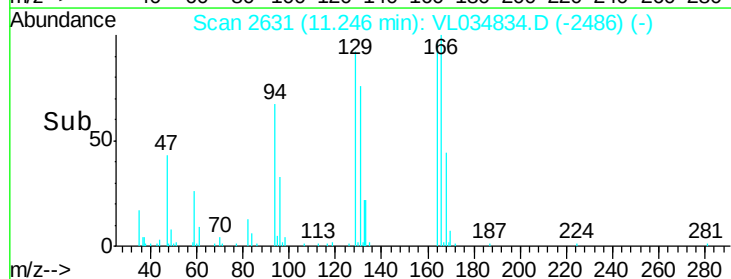
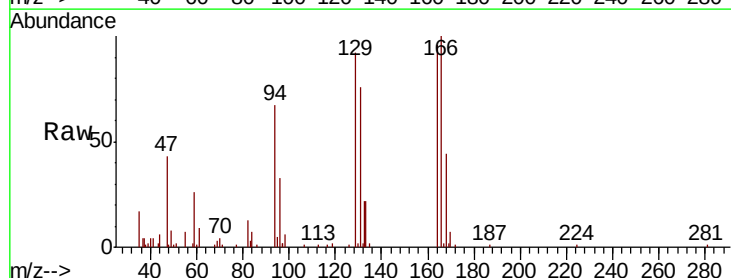
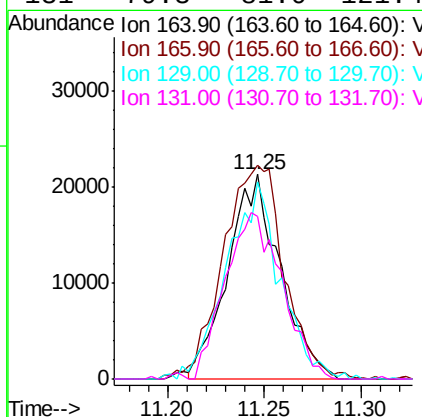
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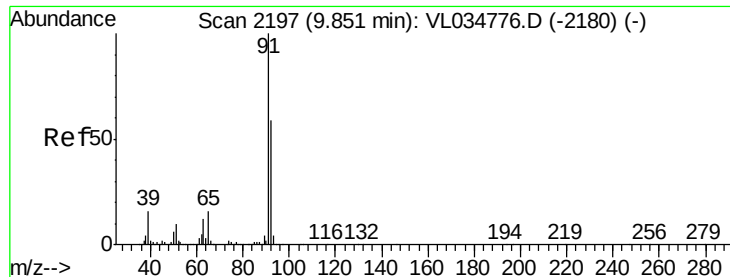
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#52
 Tetrachloroethene
 Concen: 0.626 ppbv
 RT: 11.25 min Scan# 2631
 Delta R.T. -0.03 min
 Lab File: VL034834.D
 Acq: 7 Mar 2020 3:33

Tgt Ion	Ratio	Lower	Upper
164	100		
166	101.0	103.3	154.9#
129	94.7	79.0	118.4
131	79.3	81.0	121.4#





#53

Toluene

Concen: 0.212 ppbv m

RT: 9.83 min Scan# 2189

Delta R.T. -0.03 min

Lab File: VL034834.D

Acq: 7 Mar 2020 3:33

Instrument :

MSVOA_L

ClientSampleId :

SS-2-4DL2

Tot Ion: 91 Resp: 38988

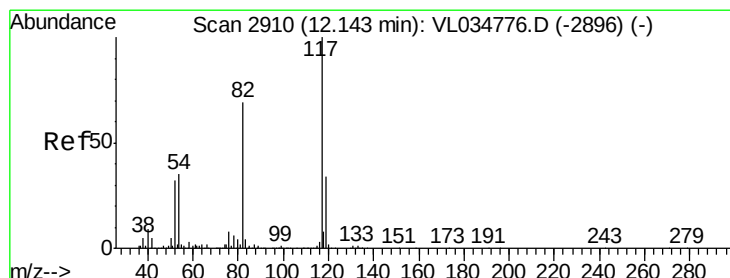
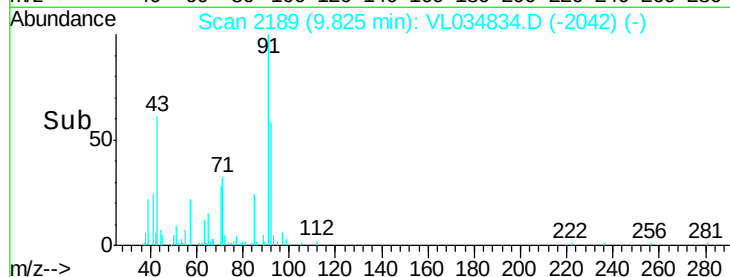
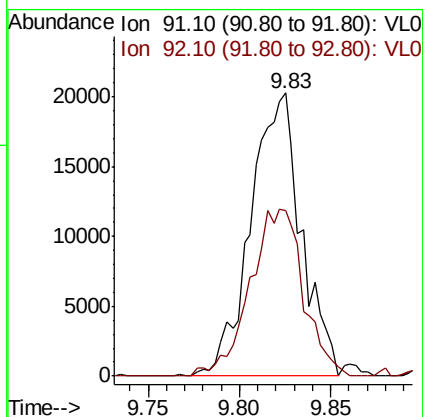
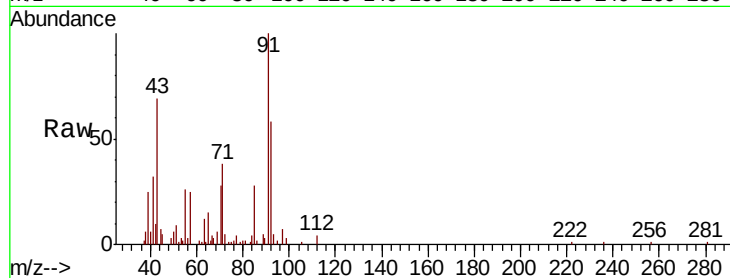
Ion Ratio Lower Upper

91 100

92 62.1 48.2 72.2

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#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.10 min Scan# 2898

Delta R.T. -0.04 min

Lab File: VL034834.D

Acq: 7 Mar 2020 3:33

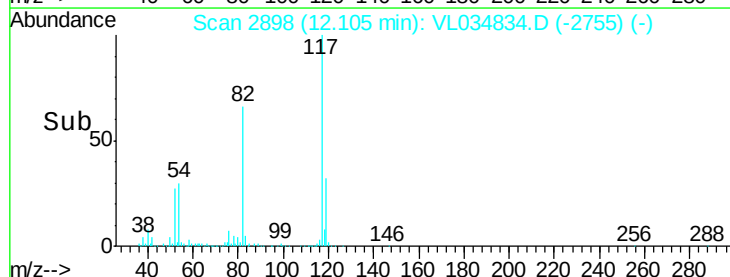
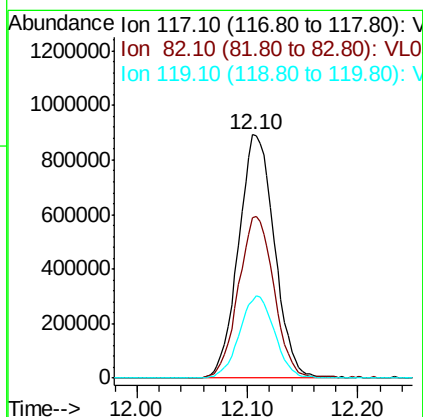
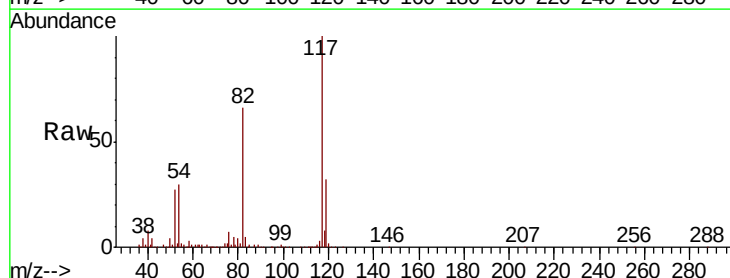
Tgt Ion: 117 Resp: 2013869

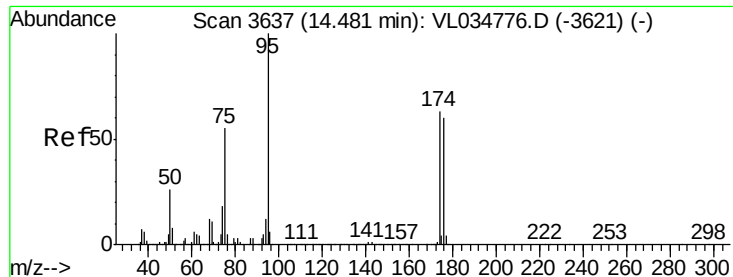
Ion Ratio Lower Upper

117 100

82 65.7 53.9 80.9

119 33.1 25.0 37.4





#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.354 ppbv
 RT: 14.45 min Scan# 3627
 Delta R.T. -0.03 min
 Lab File: VL034834.D
 Acq: 7 Mar 2020 3:33

Instrument :
 MSVOA_L
 ClientSampleId :
 SS-2-4DL2

Tot Ion	Ratio	Lower	Upper
95	100		
174	70.3	50.6	76.0
175	5.6	3.8	5.6

Manual Integrations
 APPROVED

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 3/9/2020 9:21:32 AM

