

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL030620\
 Data File : VL034837.D
 Acq On : 7 Mar 2020 5:27
 Operator : SY/AP
 Sample : L1698-08DL2DUP 600X
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SS-2-4DL2DUP

Manual Integrations
 APPROVED

MMDadoda
 3/9/2020 9:21:44 AM

Quant Time: Mar 07 07:04:13 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL030420AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Mar 0
 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	5.66	49	871437	10.00	ppbv	-0.03
33) 1,4-Difluorobenzene	7.18	114	1977975	10.00	ppbv	-0.03
55) Chlorobenzene-d5	12.10	117	1937830	10.00	ppbv	-0.04

System Monitoring Compounds		R.T.	QIon	Response	Conc	Units	Dev(Min)
68) 1-Bromo-4-Fluorobenzene	14.45	95	1548477	9.58	ppbv	-0.04	
Spiked Amount	10.000	Range	65 - 135	Recovery	=	95.80%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
5) Vinyl Chloride	3.22	62	130301	2.307	ppbv	89
9) Propene	2.97	41	22685	0.580	ppbv	93
10) Heptane	8.12	43	41128m	0.414	ppbv	
15) Acetone	3.83	43	5212m	0.050	ppbv	
20) Methylene Chloride	4.32	84	16021m	0.430	ppbv	
26) Hexane	5.68	57	65506	0.832	ppbv #	41
30) Cyclohexane	7.13	84	47923	0.795	ppbv	91
31) cis-1,2-Dichloroethene	5.54	61	648018	8.020	ppbv	99
36) Benzene	6.89	78	60094	0.356	ppbv #	91
38) Trichloroethene	7.84	130	60666	0.921	ppbv	85
44) 2,2,4-Trimethylpentane	7.87	57	117118	0.397	ppbv #	78
52) Tetrachloroethene	11.24	164	20022m	0.321	ppbv	
53) Toluene	9.82	91	19876m	0.111	ppbv	
59) m/p-Xylene	13.00	91	20349m	0.098	ppbv	

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

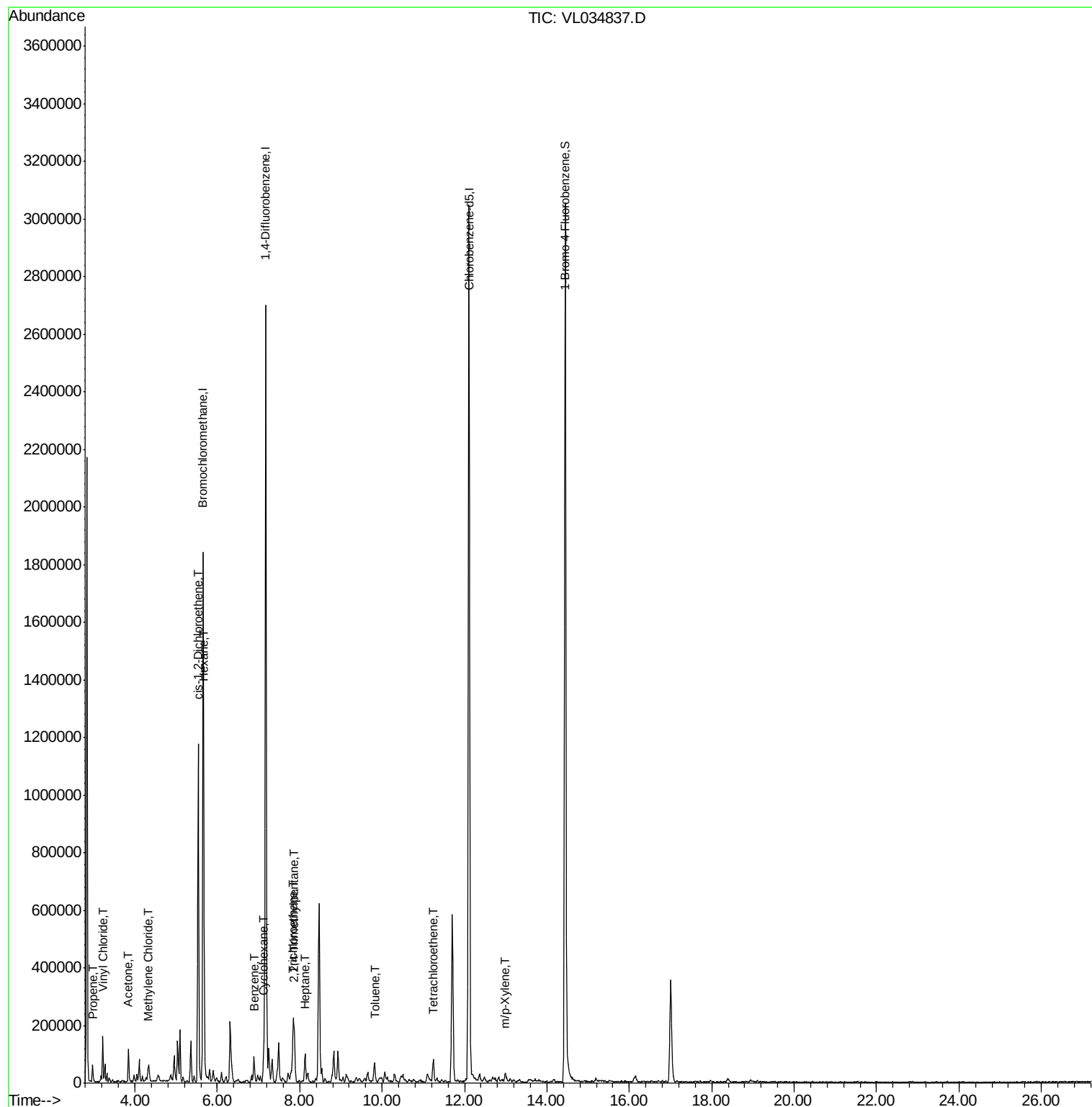
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL030620\
Data File : VL034837.D
Acq On : 7 Mar 2020 5:27
Operator : SY/AP
Sample : L1698-08DL2DUP 600X
Misc : 400ml/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

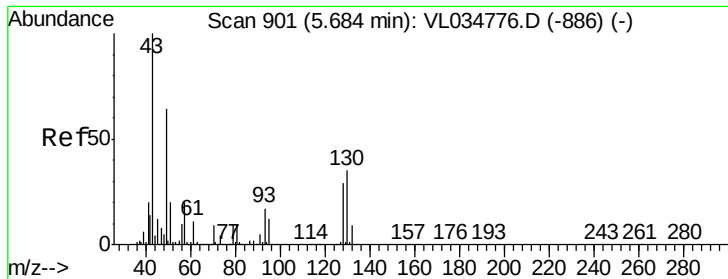
Instrument :
MSVOA_L
ClientSampleId :
SS-2-4DL2DUP

Manual Integrations
APPROVED

MMDadoda
3/9/2020 9:21:44 AM

Quant Time: Mar 07 07:04:13 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: 5.66 min Scan# 893

Delta R.T. -0.03 min

Lab File: VL034837.D

Acq: 7 Mar 2020 5:27

Instrument :

MSVOA_L

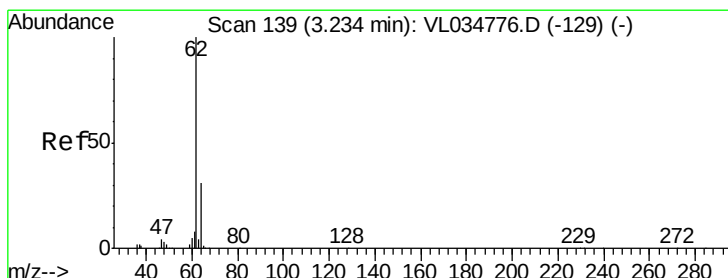
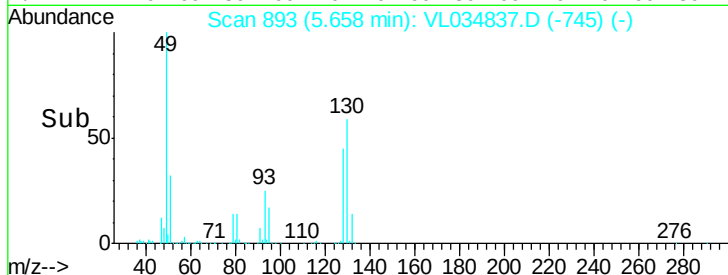
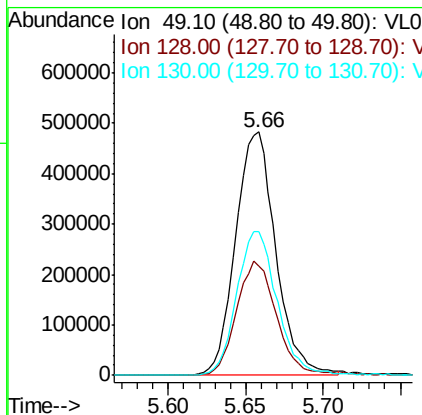
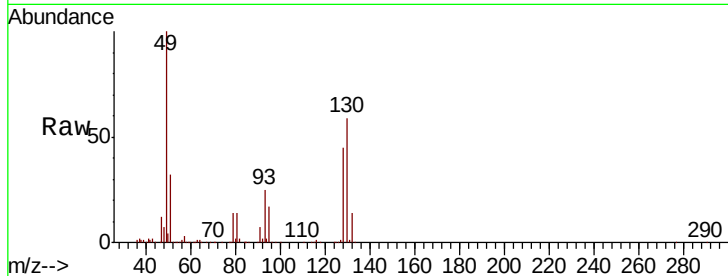
ClientSampleId :

SS-2-4DL2DUP

Tot Ion:	49	Resp:	871437
Ion Ratio		Lower	Upper
49	100		
128	47.0	21.6	64.6
130	59.7	27.4	82.2

Manual Integrations
APPROVED

MMDadoda
3/9/2020 9:21:44 AM



#5

Vinyl Chloride

Concen: 2.307 ppbv

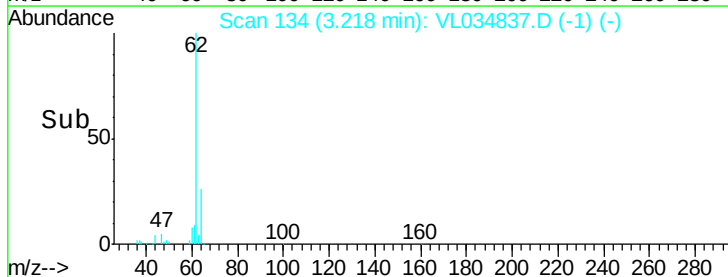
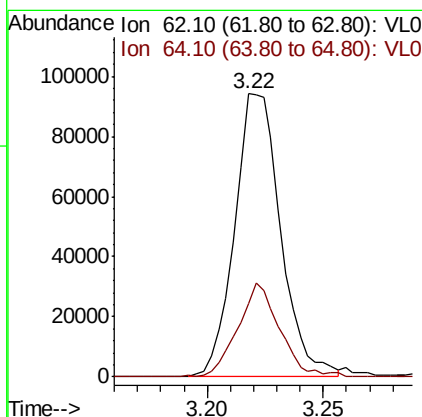
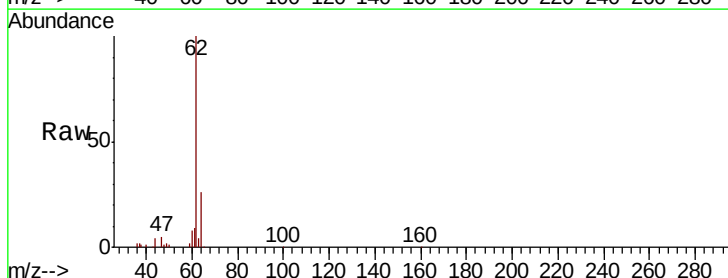
RT: 3.22 min Scan# 134

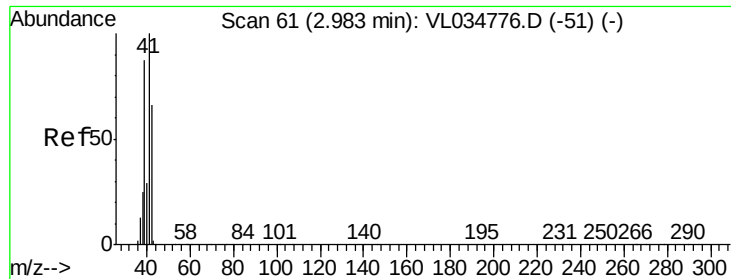
Delta R.T. -0.02 min

Lab File: VL034837.D

Acq: 7 Mar 2020 5:27

Tgt Ion:	62	Resp:	130301
Ion Ratio		Lower	Upper
62	100		
64	25.2	25.1	37.7





#9

Propene

Concen: 0.580 ppbv

RT: 2.97 min Scan# 58

Delta R.T. -0.01 min

Lab File: VL034837.D

Acq: 7 Mar 2020 5:27

Instrument :

MSVOA_L

ClientSampleId :

SS-2-4DL2DUP

Tot Ion: 41 Resp: 22685

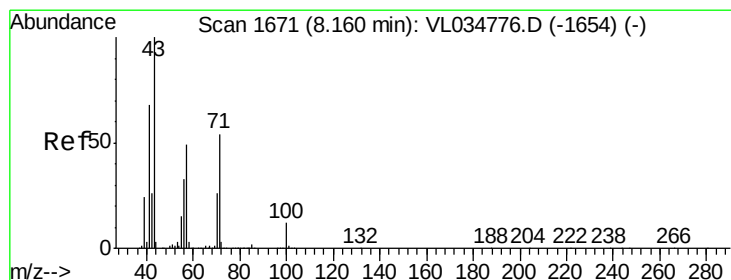
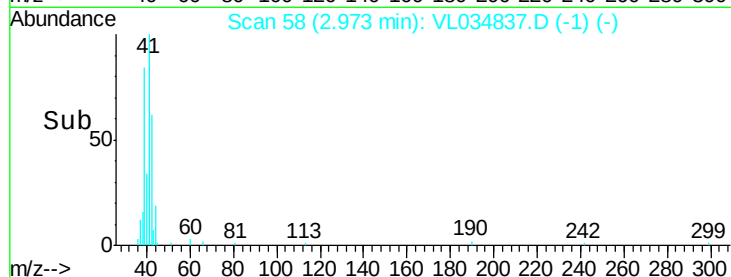
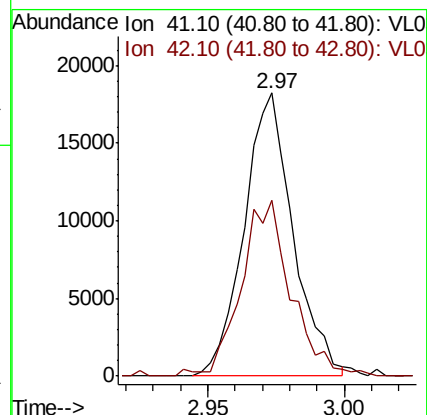
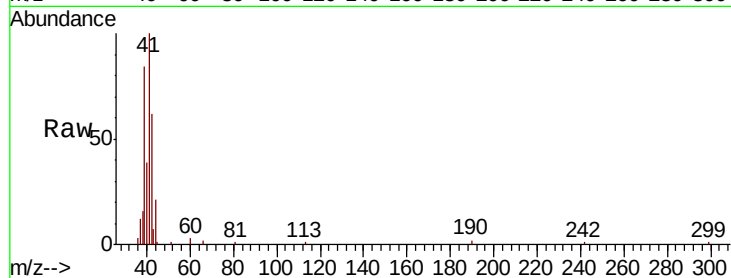
Ion Ratio Lower Upper

41 100

42 63.8 55.6 83.4

Manual Integrations
APPROVED

MMDadoda
3/9/2020 9:21:44 AM



#10

Heptane

Concen: 0.414 ppbv m

RT: 8.12 min Scan# 1659

Delta R.T. -0.04 min

Lab File: VL034837.D

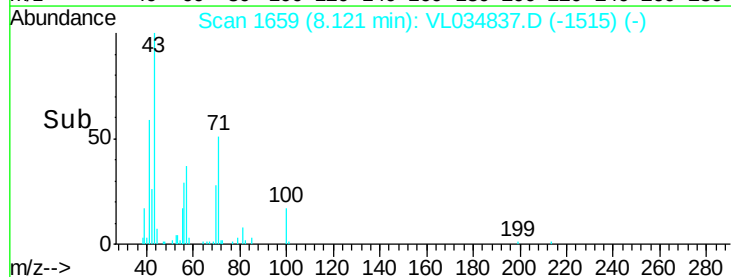
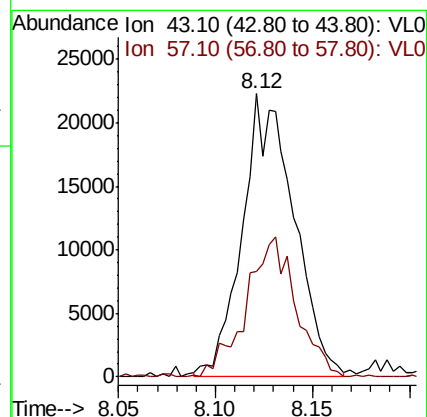
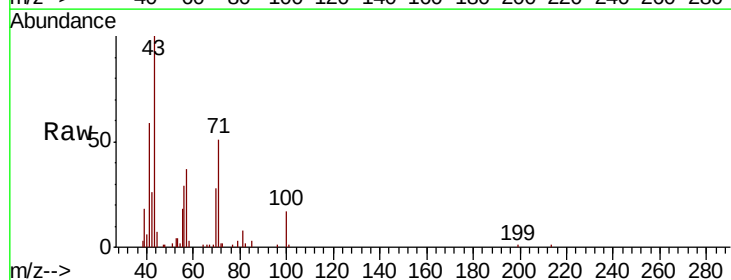
Acq: 7 Mar 2020 5:27

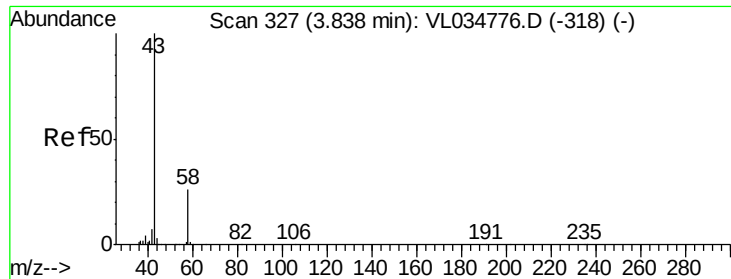
Tgt Ion: 43 Resp: 41128

Ion Ratio Lower Upper

43 100

57 0.0 40.5 60.7#





#15

Acetone

Concen: 0.050 ppbv m

RT: 3.83 min Scan# 325

Delta R.T. -0.01 min

Lab File: VL034837.D

Acq: 7 Mar 2020 5:27

Instrument :

MSVOA_L

ClientSampleId :

SS-2-4DL2DUP

Tot Ion: 43 Resp: 5212

Ion Ratio Lower Upper

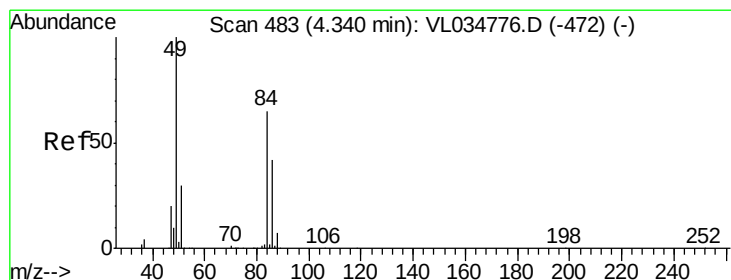
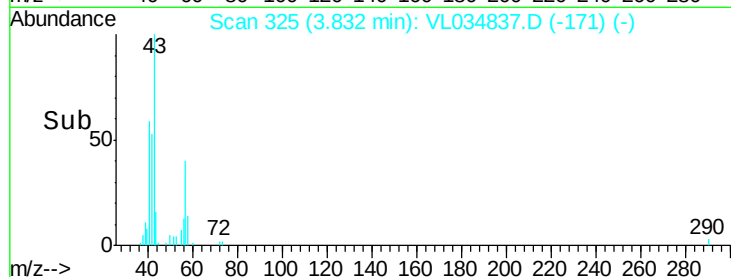
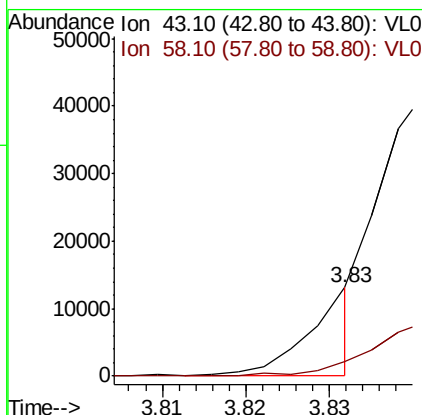
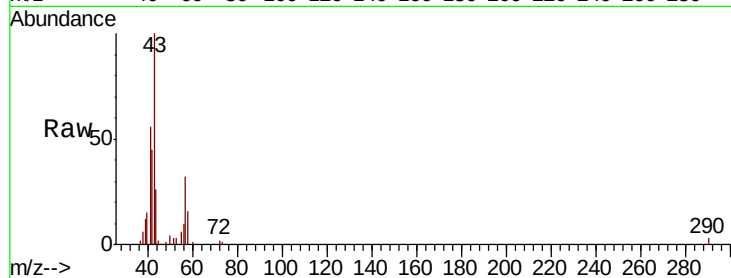
43 100

58 296.2 21.0 31.6#

Manual Integrations
APPROVED

MMDadoda

3/9/2020 9:21:44 AM



#20

Methylene Chloride

Concen: 0.430 ppbv m

RT: 4.32 min Scan# 476

Delta R.T. -0.02 min

Lab File: VL034837.D

Acq: 7 Mar 2020 5:27

Tgt Ion: 84 Resp: 16021

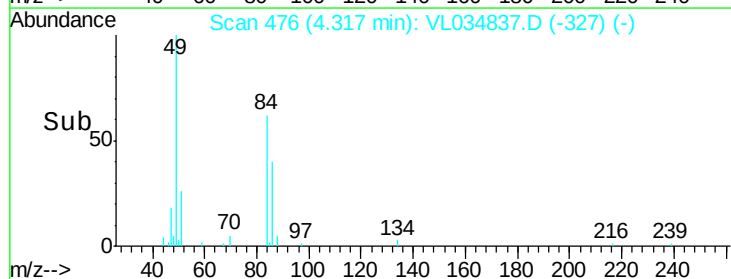
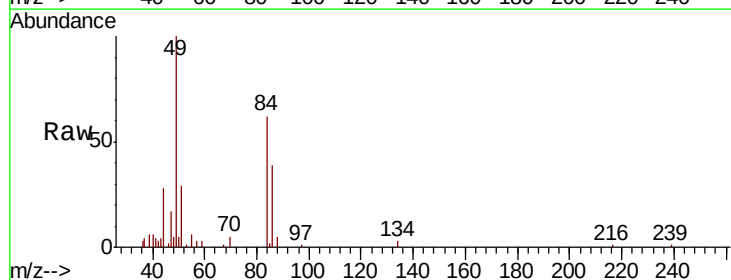
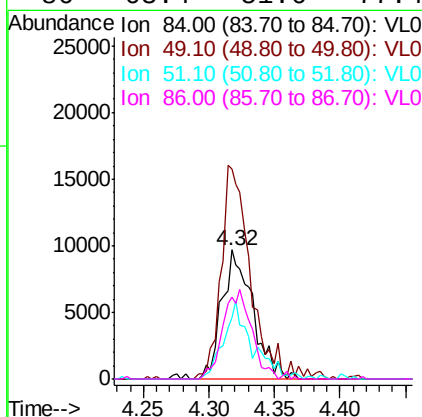
Ion Ratio Lower Upper

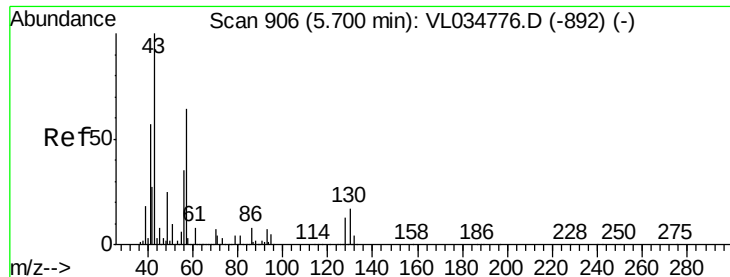
84 100

49 162.4 123.2 184.8

51 47.8 37.4 56.2

86 63.4 51.6 77.4





#26

Hexane

Concen: 0.832 ppbv

RT: 5.68 min Scan# 899

Delta R.T. -0.02 min

Lab File: VL034837.D

Acq: 7 Mar 2020 5:27

Instrument :

MSVOA_L

ClientSampleId :

SS-2-4DL2DUP

Tot Ion: 57 Resp: 65506

Ion Ratio Lower Upper

57 100

41 92.9 72.0 108.0

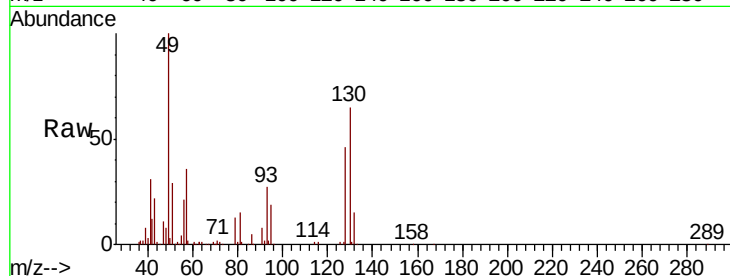
43 69.4 179.1 268.7#

56 56.8 42.6 63.8

Manual Integrations
APPROVED

MMDadoda

3/9/2020 9:21:44 AM



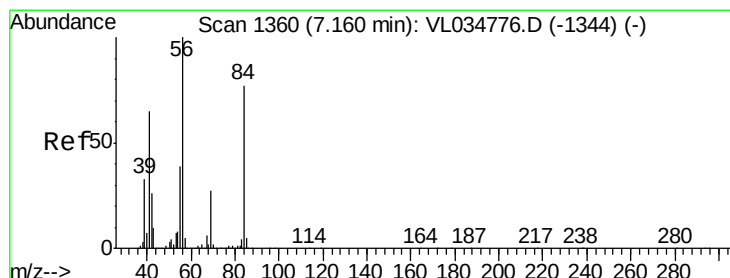
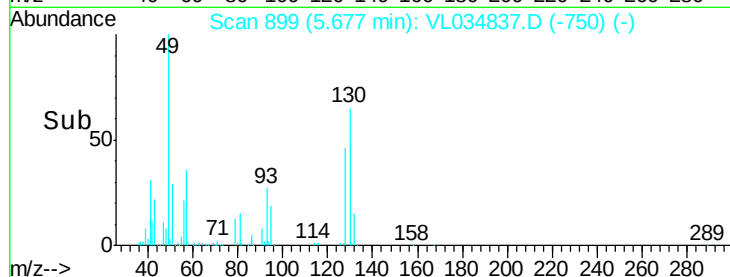
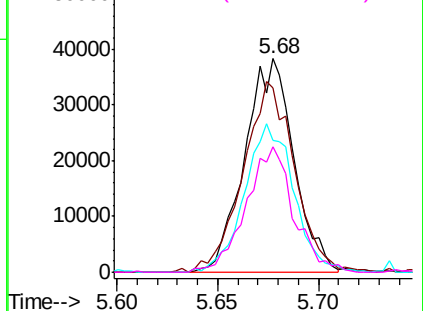
Abundance

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: 0.795 ppbv

RT: 7.13 min Scan# 1351

Delta R.T. -0.03 min

Lab File: VL034837.D

Acq: 7 Mar 2020 5:27

Tgt Ion: 84 Resp: 47923

Ion Ratio Lower Upper

84 100

56 125.4 113.2 169.8

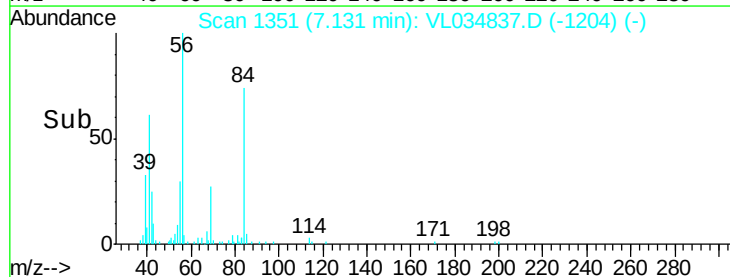
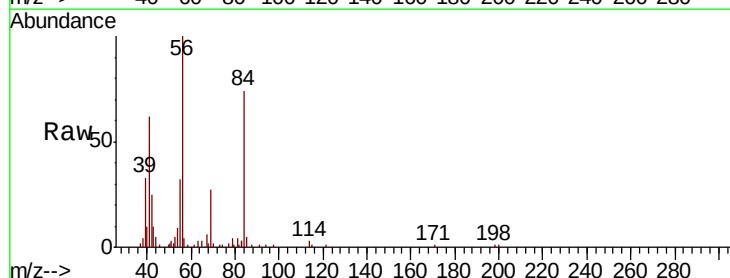
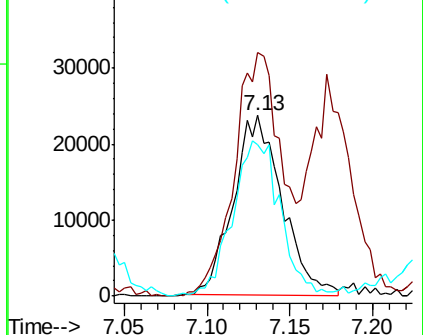
41 84.8 70.2 105.4

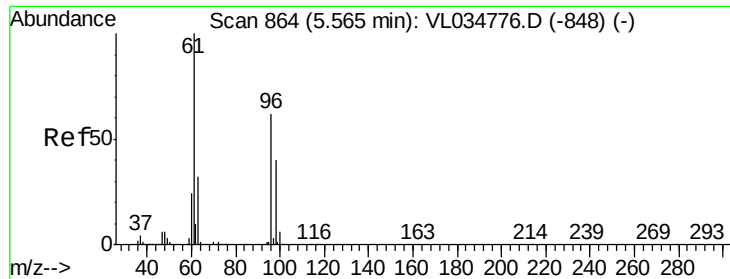
Abundance

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





#31

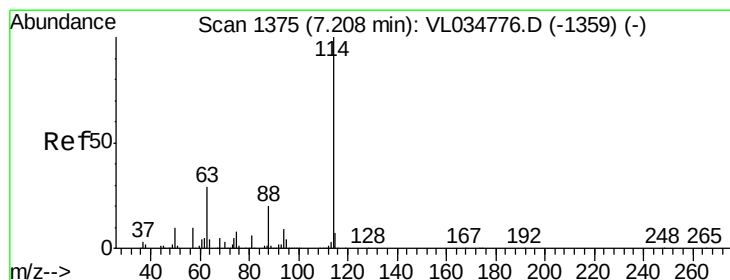
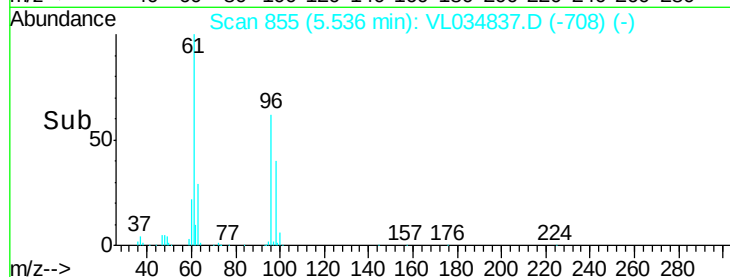
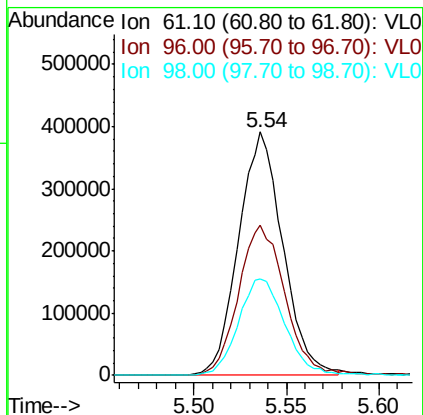
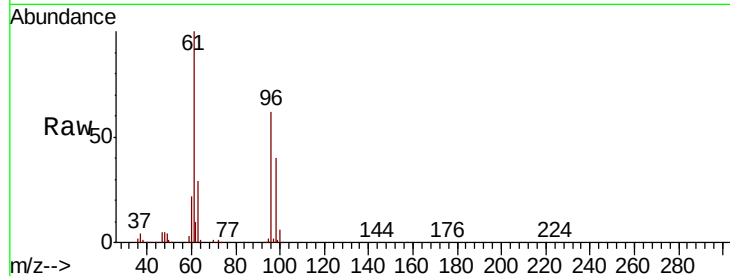
cis-1,2-Dichloroethene
 Concen: 8.020 ppbv
 RT: 5.54 min Scan# 855
 Delta R.T. -0.03 min
 Lab File: VL034837.D
 Acq: 7 Mar 2020 5:27

Instrument :
 MSVOA_L
 ClientSampleId :
 SS-2-4DL2DUP

Tot Ion	61	Resp:	648018
Ion	Ratio	Lower	Upper
61	100		
96	61.5	49.7	74.5
98	39.6	31.9	47.9

Manual Integrations
 APPROVED

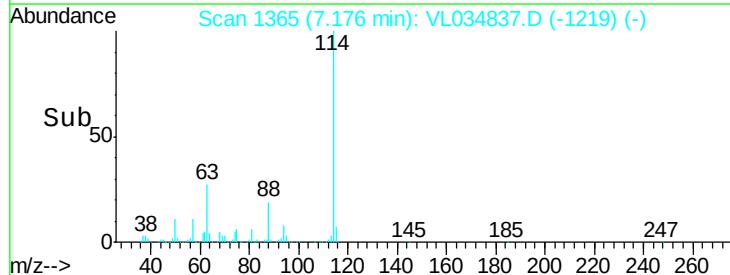
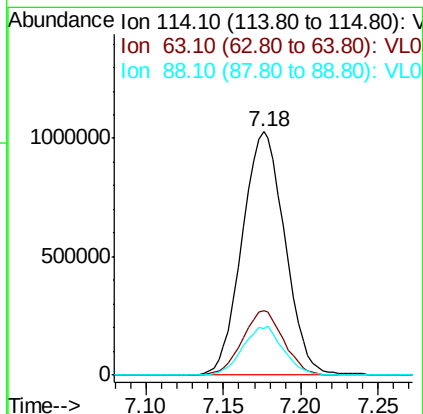
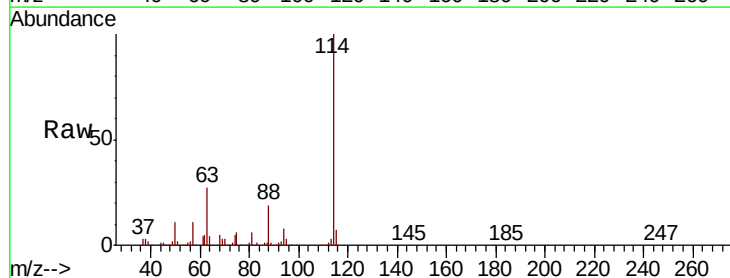
MMDadoda
 3/9/2020 9:21:44 AM

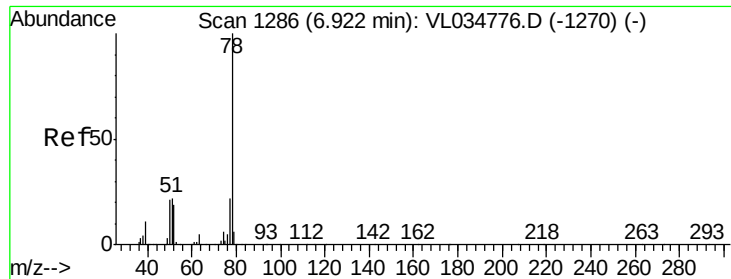


#33

1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.18 min Scan# 1365
 Delta R.T. -0.03 min
 Lab File: VL034837.D
 Acq: 7 Mar 2020 5:27

Tgt Ion	114	Resp:	1977975
Ion	Ratio	Lower	Upper
114	100		
63	25.6	23.6	35.4
88	19.1	15.8	23.8





#36

Benzene

Concen: 0.356 ppbv

RT: 6.89 min Scan# 1277

Delta R.T. -0.03 min

Lab File: VL034837.D

Acq: 7 Mar 2020 5:27

Instrument :

MSVOA_L

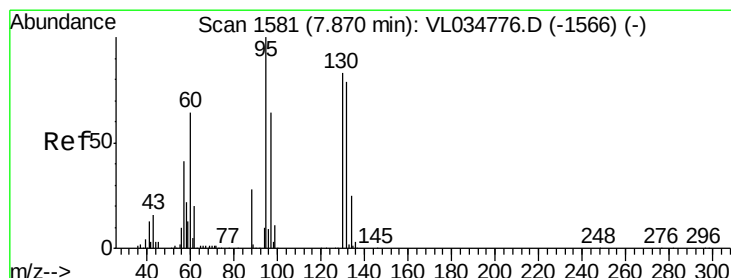
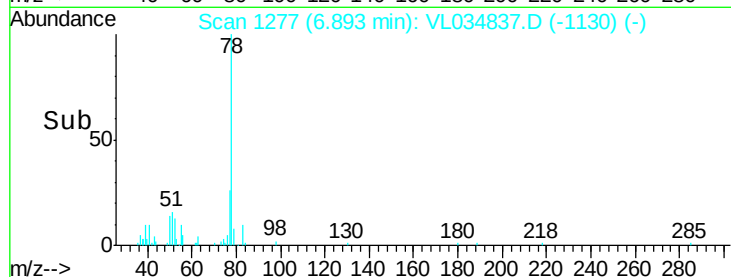
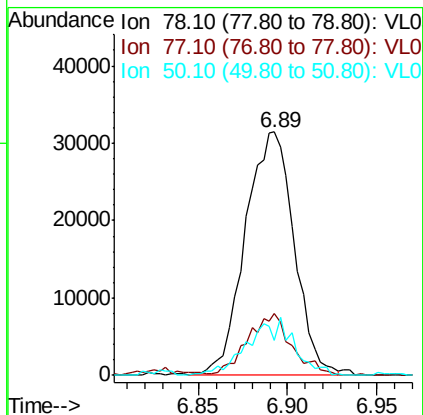
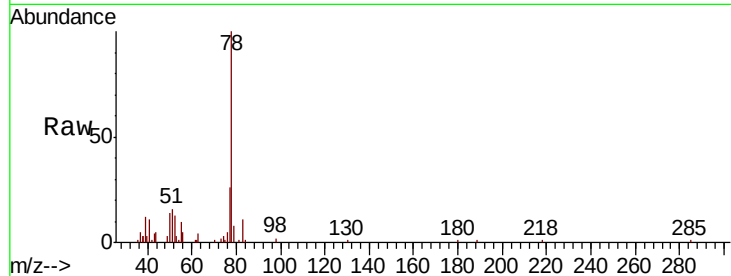
ClientSampleId :

SS-2-4DL2DUP

Tot Ion:	78	Resp:	60094
Ion	Ratio	Lower	Upper
78	100		
77	24.7	18.0	27.0
50	14.4	16.9	25.3#

Manual Integrations
APPROVED

MMDadoda
3/9/2020 9:21:44 AM



#38

Trichloroethene

Concen: 0.921 ppbv

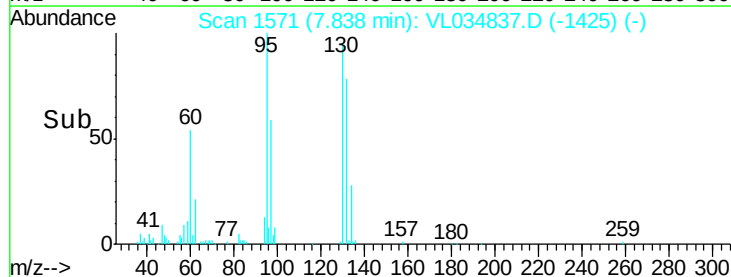
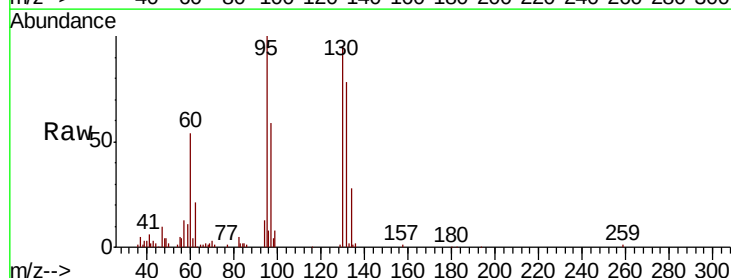
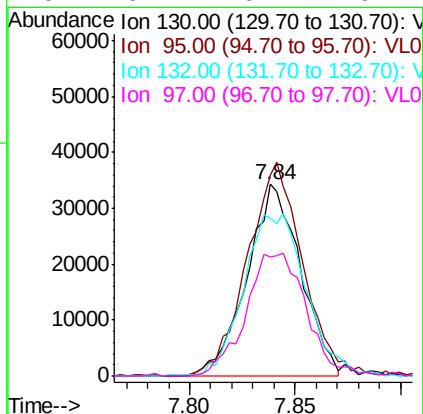
RT: 7.84 min Scan# 1571

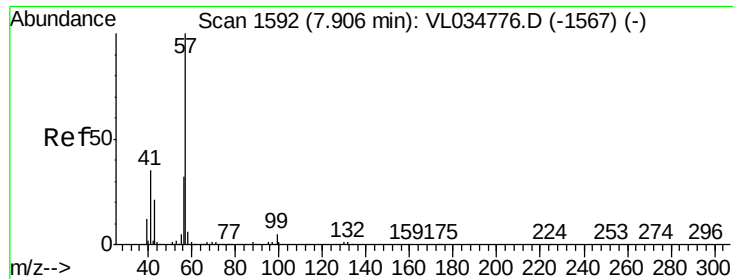
Delta R.T. -0.03 min

Lab File: VL034837.D

Acq: 7 Mar 2020 5:27

Tgt Ion:	130	Resp:	60666
Ion	Ratio	Lower	Upper
130	100		
95	104.1	95.8	143.8
132	81.5	76.1	114.1
97	62.1	61.1	91.7





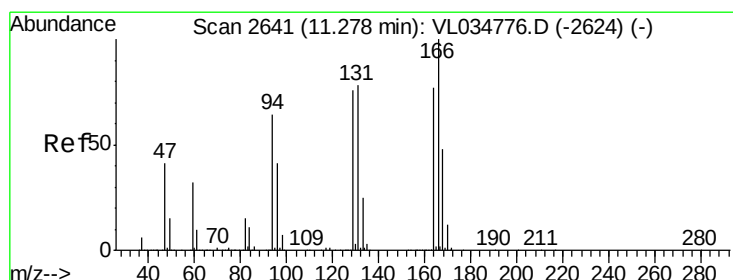
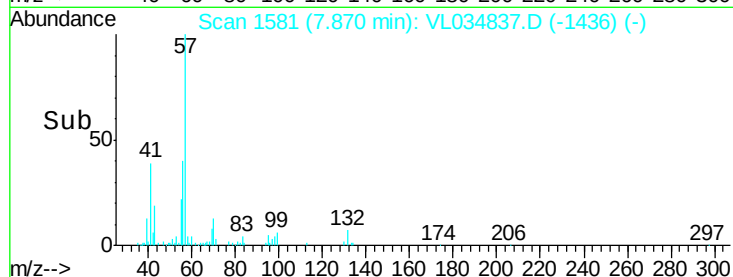
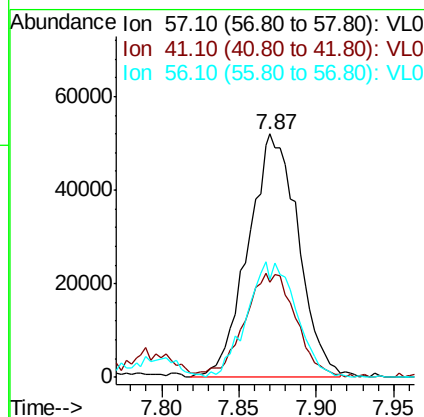
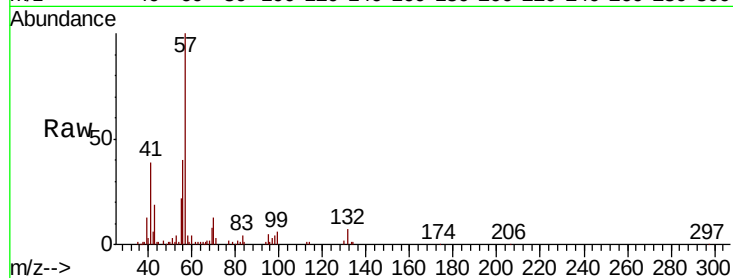
#44
 2,2,4-Trimethylpentane
 Concen: 0.397 ppbv
 RT: 7.87 min Scan# 1581
 Delta R.T. -0.04 min
 Lab File: VL034837.D
 Acq: 7 Mar 2020 5:27

Instrument :
 MSVOA_L
 ClientSampleId :
 SS-2-4DL2DUP

Tot Ion	57	Resp	117118
Ion	Ratio	Lower	Upper
57	100		
41	44.1	27.4	41.0#
56	46.8	25.0	37.6#

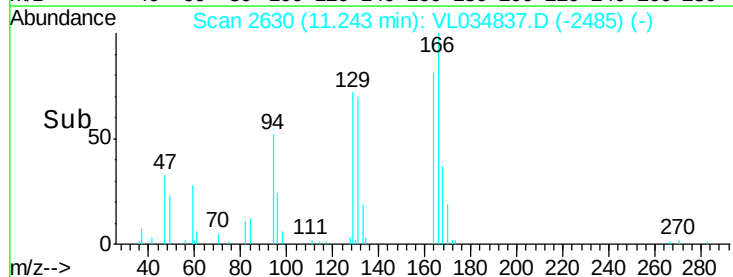
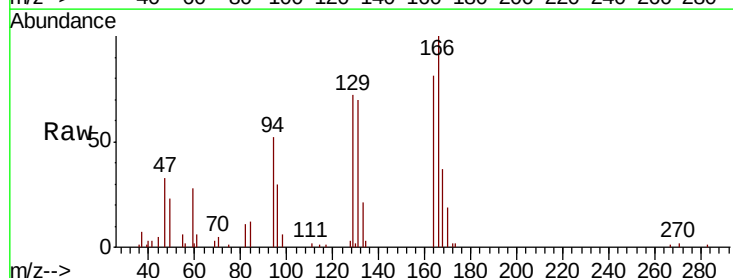
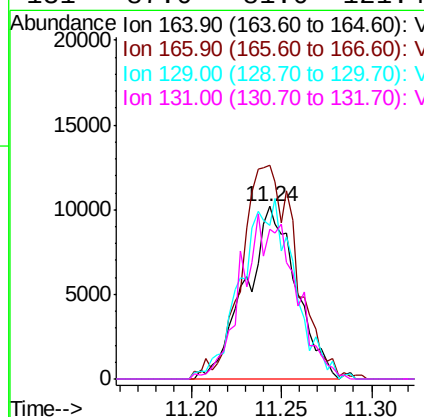
Manual Integrations
 APPROVED

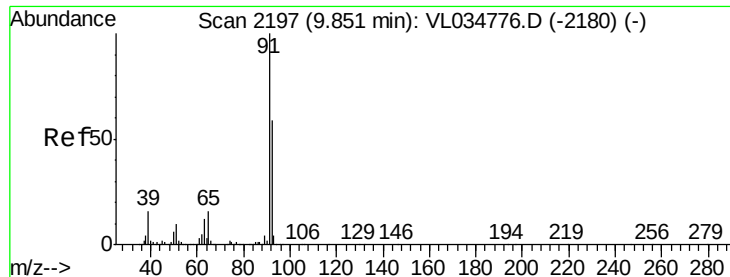
MMDadoda
 3/9/2020 9:21:44 AM



#52
 Tetrachloroethene
 Concen: 0.321 ppbv m
 RT: 11.24 min Scan# 2630
 Delta R.T. -0.04 min
 Lab File: VL034837.D
 Acq: 7 Mar 2020 5:27

Tgt Ion	164	Resp	20022
Ion	Ratio	Lower	Upper
164	100		
166	124.0	103.3	154.9
129	89.4	79.0	118.4
131	87.0	81.0	121.4





#53

Toluene

Concen: 0.111 ppbv m

RT: 9.82 min Scan# 2188

Delta R.T. -0.03 min

Lab File: VL034837.D

Acq: 7 Mar 2020 5:27

Instrument :

MSVOA_L

ClientSampleId :

SS-2-4DL2DUP

Tot Ion: 91 Resp: 19876

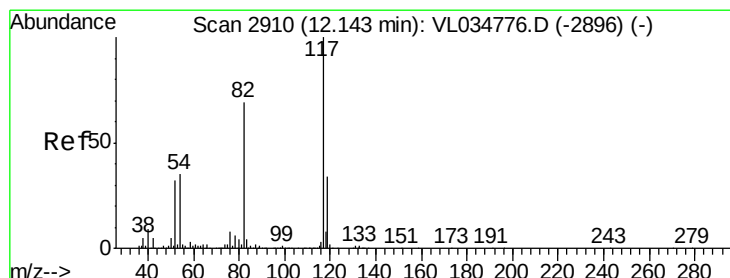
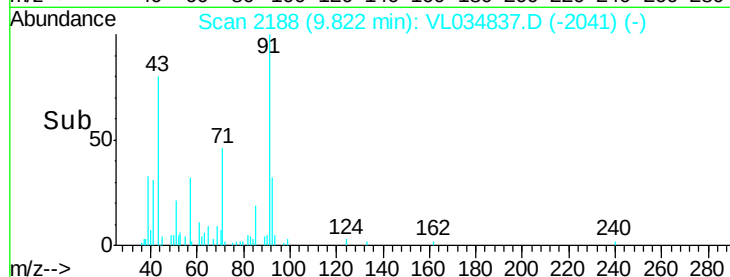
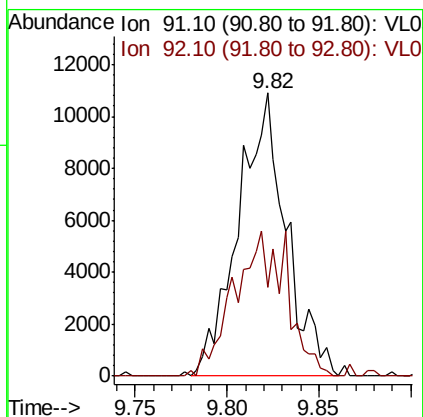
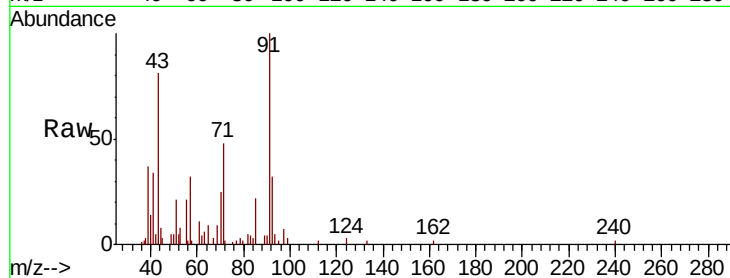
Ion Ratio Lower Upper

91 100

92 0.0 48.2 72.2#

Manual Integrations
APPROVED

MMDadoda
3/9/2020 9:21:44 AM



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.10 min Scan# 2898

Delta R.T. -0.04 min

Lab File: VL034837.D

Acq: 7 Mar 2020 5:27

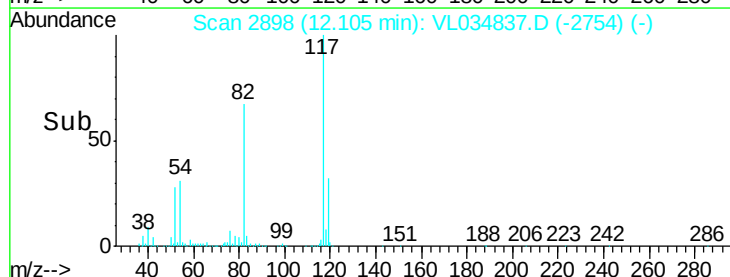
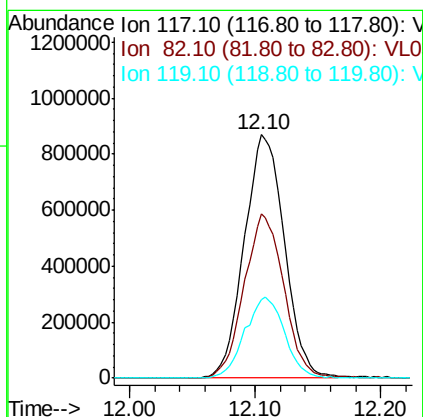
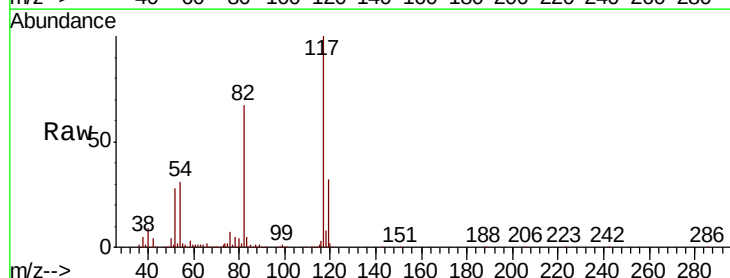
Tgt Ion: 117 Resp: 1937830

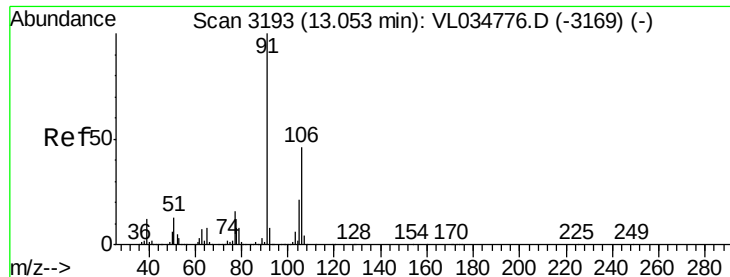
Ion Ratio Lower Upper

117 100

82 67.2 53.9 80.9

119 33.0 25.0 37.4





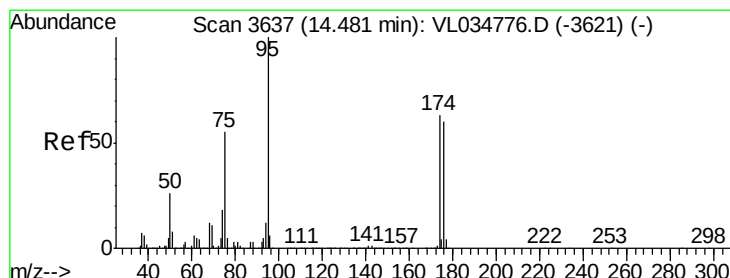
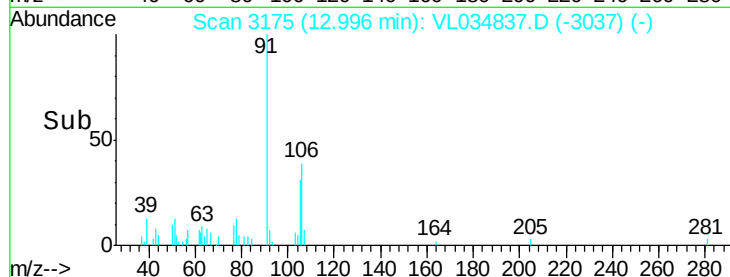
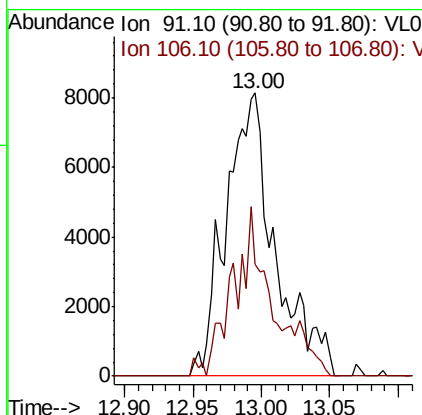
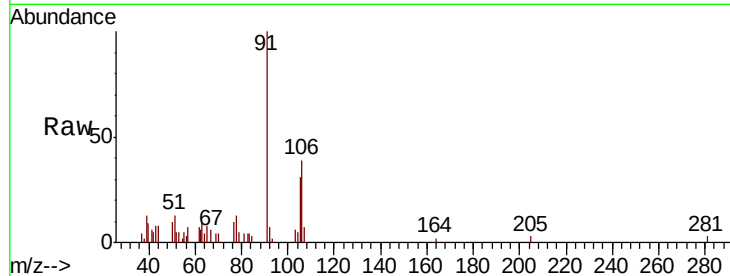
#59
m/p-Xylene
Concen: 0.098 ppbv m
RT: 13.00 min Scan# 3175
Delta R.T. -0.06 min
Lab File: VL034837.D
Acq: 7 Mar 2020 5:27

Instrument :
MSVOA_L
ClientSampleId :
SS-2-4DL2DUP

Tot Ion: 91 Resp: 20349
Ion Ratio Lower Upper
91 100
106 0.0 35.8 53.8#

Manual Integrations
APPROVED

MMDadoda
3/9/2020 9:21:44 AM



#68
1-Bromo-4-Fluorobenzene
Concen: 9.583 ppbv
RT: 14.45 min Scan# 3626
Delta R.T. -0.04 min
Lab File: VL034837.D
Acq: 7 Mar 2020 5:27

Tgt Ion: 95 Resp: 1548477
Ion Ratio Lower Upper
95 100
174 70.0 50.6 76.0
175 5.4 3.8 5.6

