

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL080620\
 Data File : VL035362.D
 Acq On : 6 Aug 2020 23:08
 Operator : SY/AP
 Sample : L3554-04DL 10X
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 4-UNDER-GROUND DL

Manual Integrations
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 8/7/2020 12:54:35 PM

Quant Time: Aug 09 21:19:21 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL080520AIR.M
 Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Wed Aug 0
 QLast Update : Wed Aug 05 13:04:46 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.65	49	1427989	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.17	114	3552846	10.00	ppbv	-0.01
55) Chlorobenzene-d5	12.11	117	3341516	10.00	ppbv	0.00

System Monitoring Compounds		R.T.	QIon	Response	Conc	Units	Dev(Min)
68) 1-Bromo-4-Fluorobenzene	14.45	95	2708959	9.72	ppbv	0.00	
Spiked Amount	10.000	Range	65 - 135	Recovery	=	97.20%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.00	85	40115	0.211	ppbv	95
3) Chlorodifluoromethane	2.94	51	19059	0.117	ppbv	99
9) Propene	2.96	41	218449	3.761	ppbv	95
10) Heptane	8.11	43	26481	0.178	ppbv	98
11) Trichlorofluoromethane	3.91	101	712001	2.893	ppbv	94
15) Acetone	3.80	43	5335772	26.312	ppbv #	87
26) Hexane	5.67	57	75754	0.567	ppbv #	40
27) Carbon Disulfide	4.51	76	36349	0.194	ppbv #	92
29) Chloroform	5.74	83	58955	0.256	ppbv	93
30) Cyclohexane	7.12	84	30031m	0.296	ppbv	
34) 2-Butanone	5.22	43	1066457	6.096	ppbv	95
36) Benzene	6.88	78	126346	0.527	ppbv #	94
53) Toluene	9.81	91	73709m	0.282	ppbv	

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

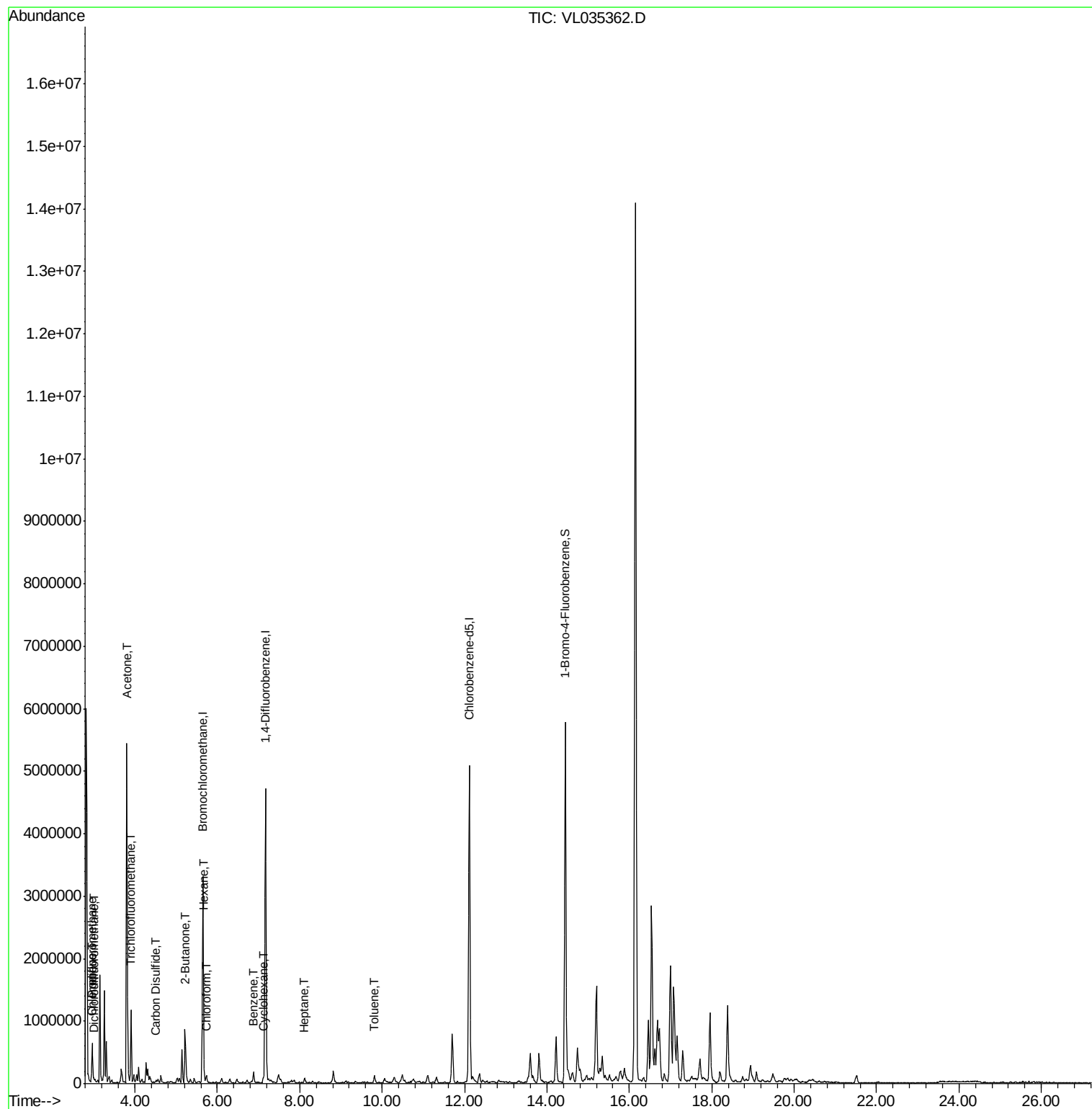
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL080620\
Data File : VL035362.D
Acq On : 6 Aug 2020 23:08
Operator : SY/AP
Sample : L3554-04DL 10X
Misc : 400ml/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

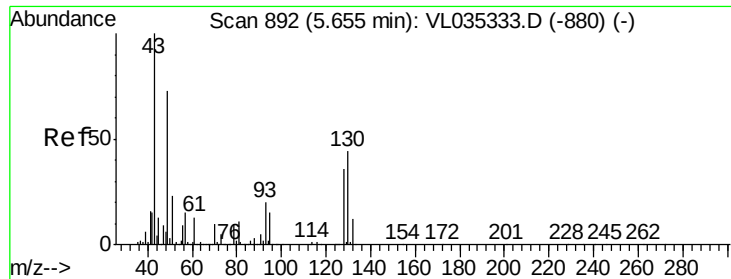
Instrument :
MSVOA_L
ClientSampleId :
4-UNDER-GROUNDL

Manual Integrations
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8/7/2020 12:54:35 PM

Quant Time: Aug 09 21:19:21 2020
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL080520AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed Aug
QLast Update : Wed Aug 05 13:04:46 2020
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.65 min Scan# 890

Delta R.T. -0.01 min

Lab File: VL035362.D

Acq: 6 Aug 2020 23:08

Instrument :

MSVOA_L

ClientSampleId :

4-UNDER-GROUND DL

Tot Ion: 49 Resp: 1427989

Ion Ratio Lower Upper

49 100

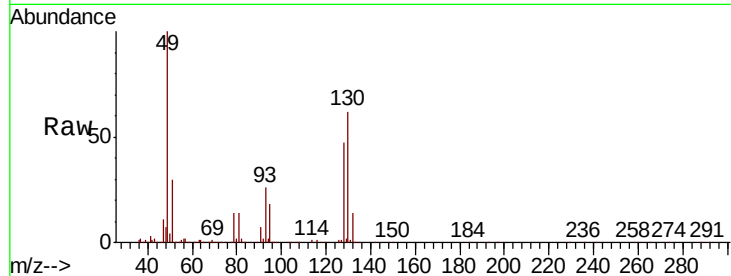
128 48.3 25.4 76.0

130 63.9 32.1 96.3

Manual Integrations
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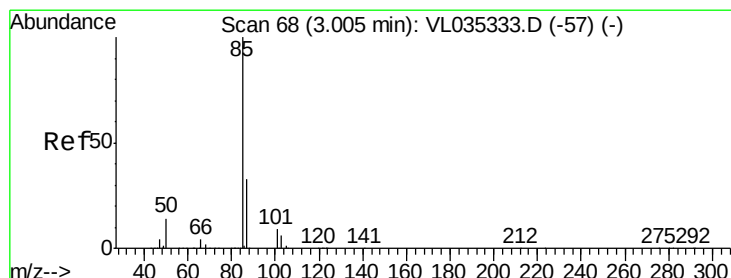
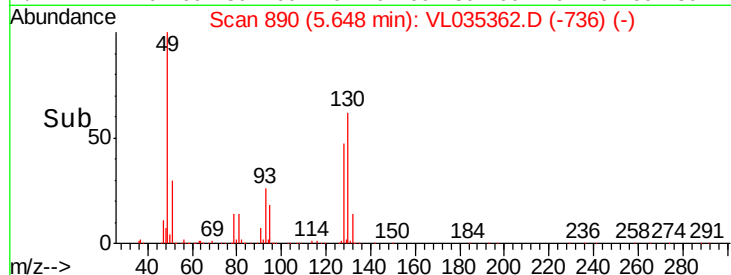
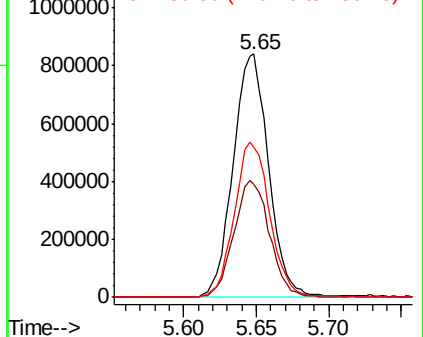
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Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): VL0

Ion 130.00 (129.70 to 130.70): VL0



#2

Dichlorodifluoromethane

Concen: 0.211 ppbv

RT: 3.00 min Scan# 65

Delta R.T. -0.01 min

Lab File: VL035362.D

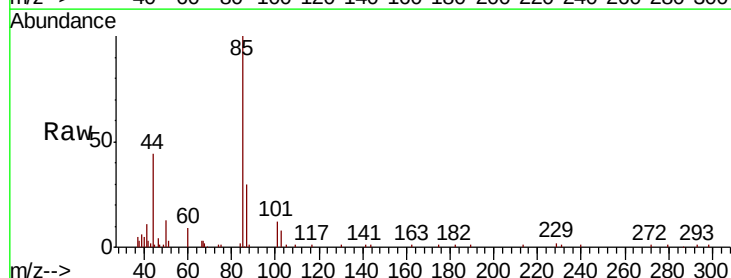
Acq: 6 Aug 2020 23:08

Tgt Ion: 85 Resp: 40115

Ion Ratio Lower Upper

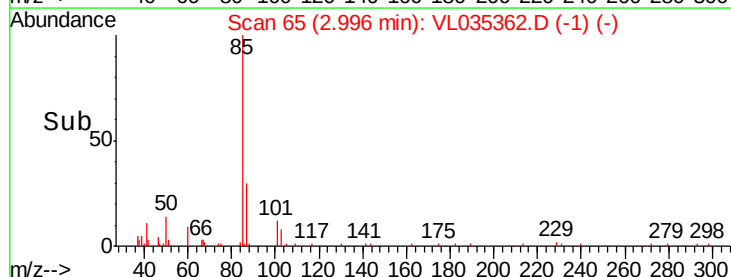
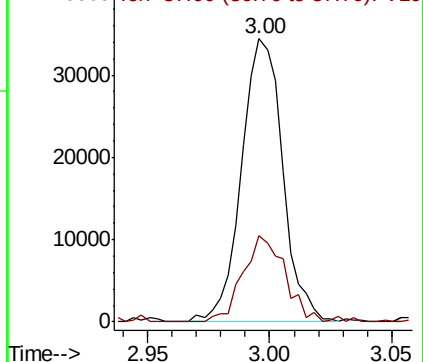
85 100

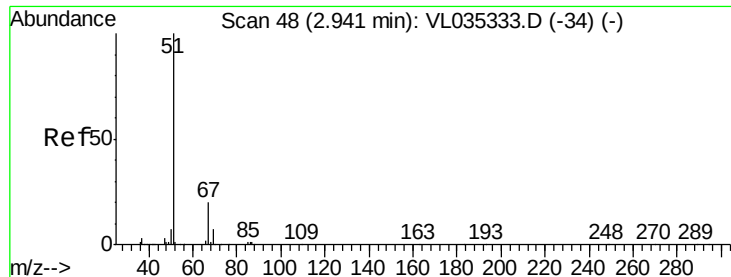
87 30.3 26.7 40.1



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.117 ppbv

RT: 2.94 min Scan# 48

Delta R.T. 0.00 min

Lab File: VL035362.D

Acq: 6 Aug 2020 23:08

Instrument :

MSVOA_L

ClientSampleId :

4-UNDER-GROUND

Tot Ion: 51 Resp: 19059

Ion Ratio Lower Upper

51 100

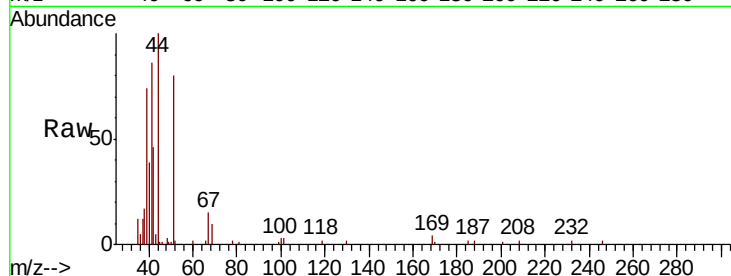
67 20.5 16.6 25.0

Manual Integrations

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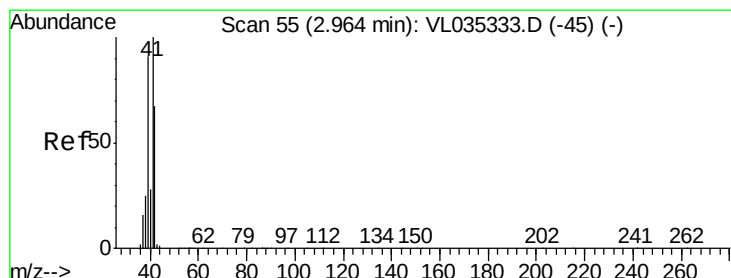
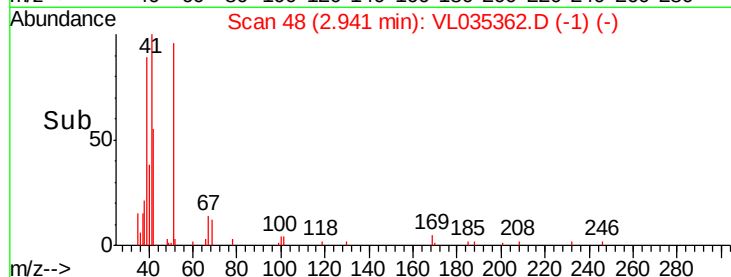
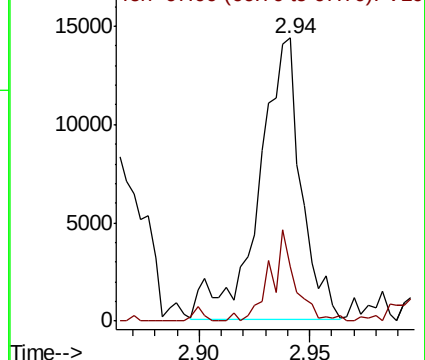
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Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#9

Propene

Concen: 3.761 ppbv

RT: 2.96 min Scan# 54

Delta R.T. -0.00 min

Lab File: VL035362.D

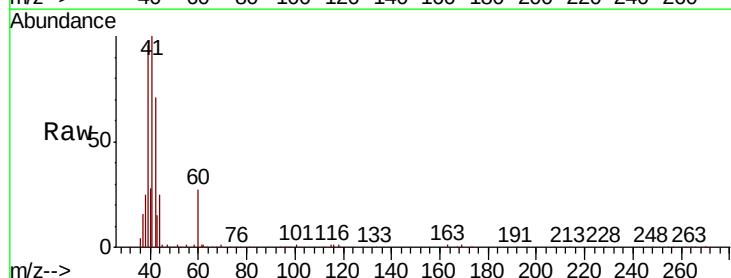
Acq: 6 Aug 2020 23:08

Tgt Ion: 41 Resp: 218449

Ion Ratio Lower Upper

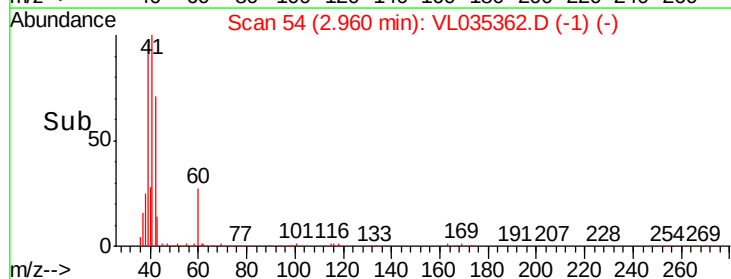
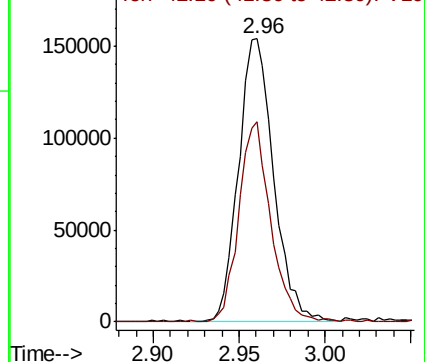
41 100

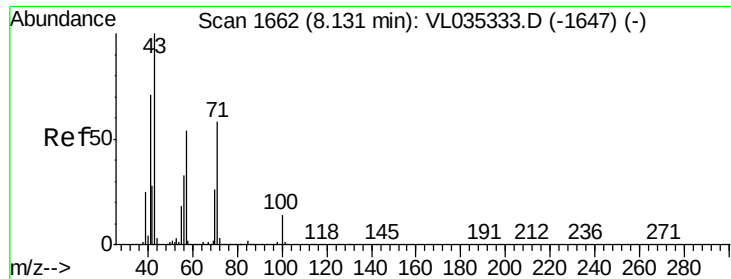
42 64.8 55.3 82.9



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0





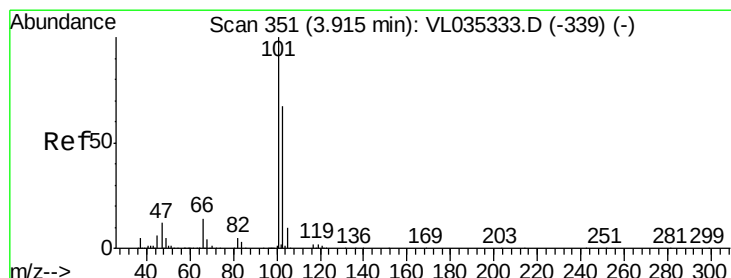
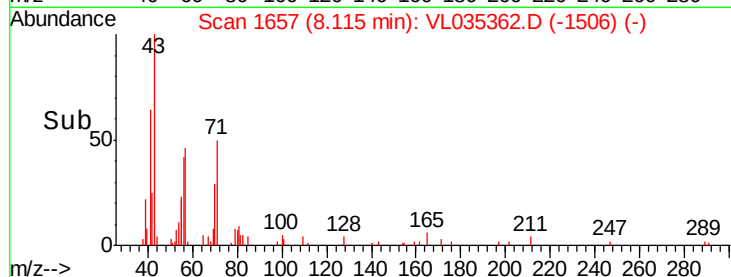
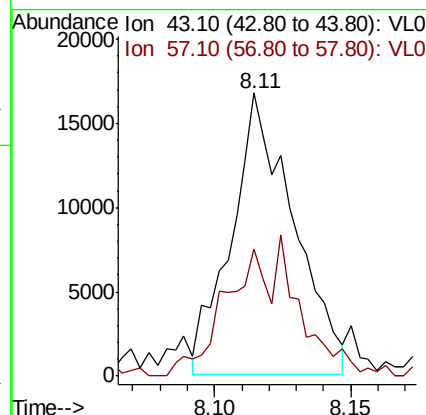
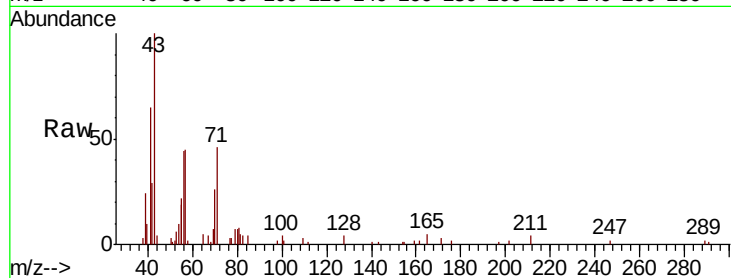
#10
 Heptane
 Concen: 0.178 ppbv
 RT: 8.11 min Scan# 1657
 Delta R.T. -0.02 min
 Lab File: VL035362.D
 Acq: 6 Aug 2020 23:08

Instrument :
 MSVOA_L
 ClientSampleId :
 4-UNDER-GROUND

Tot Ion	Ratio	Lower	Upper
43	100		
57	55.4	43.0	64.6

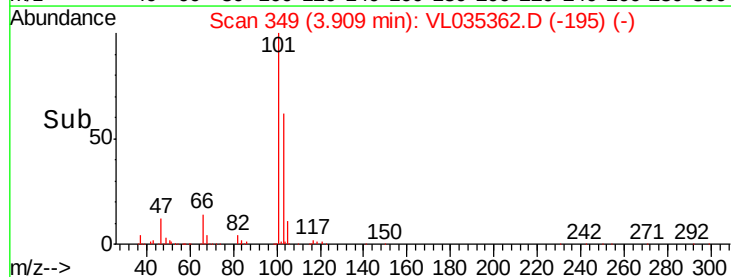
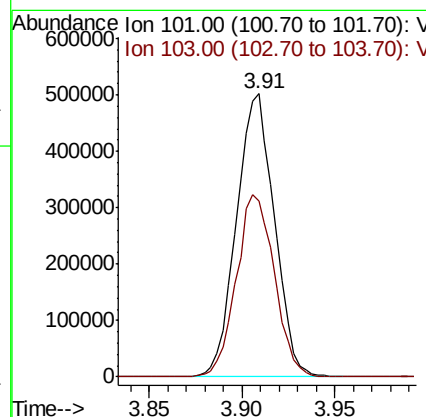
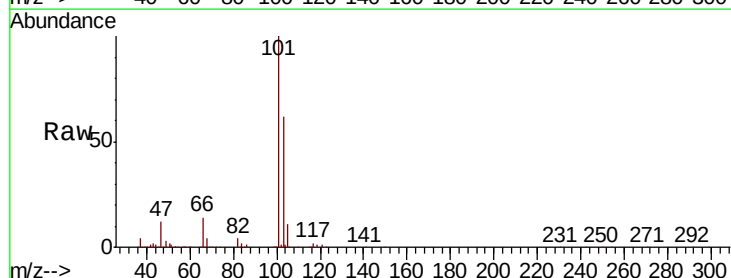
Manual Integrations
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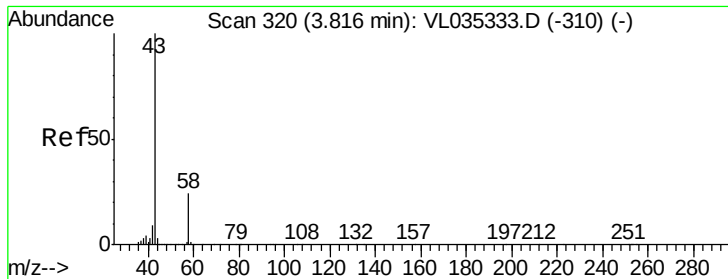
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#11
 Trichlorofluoromethane
 Concen: 2.893 ppbv
 RT: 3.91 min Scan# 349
 Delta R.T. -0.01 min
 Lab File: VL035362.D
 Acq: 6 Aug 2020 23:08

Tgt Ion	Ratio	Lower	Upper
101	100		
103	62.2	53.8	80.8





#15

Acetone

Concen: 26.312 ppbv

RT: 3.80 min Scan# 316

Delta R.T. -0.01 min

Lab File: VL035362.D

Acq: 6 Aug 2020 23:08

Instrument :

MSVOA_L

ClientSampleId :

4-UNDER-GROUND

Tot Ion: 43 Resp: 5335772

Ion Ratio Lower Upper

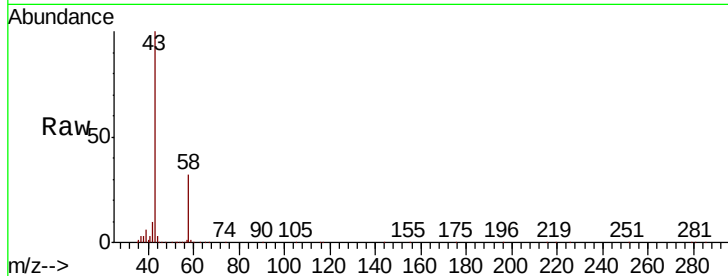
43 100

58 32.6 21.0 31.4#

Manual Integrations
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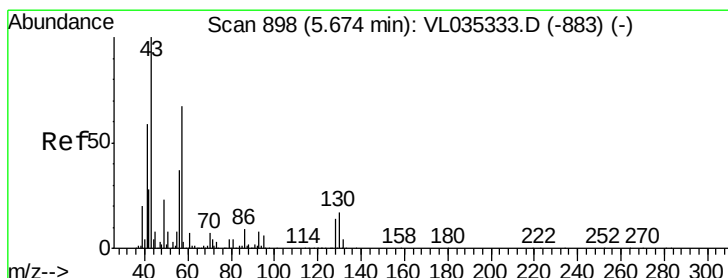
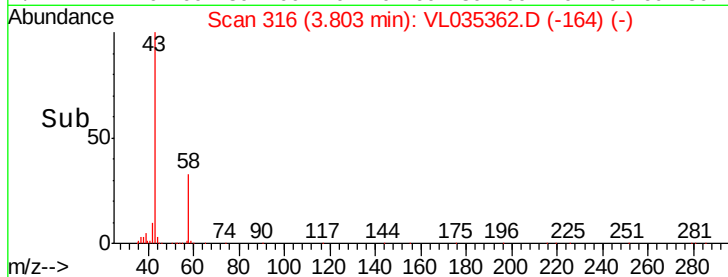
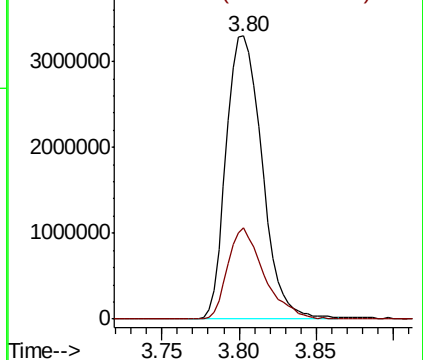
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Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0



#26

Hexane

Concen: 0.567 ppbv

RT: 5.67 min Scan# 896

Delta R.T. -0.01 min

Lab File: VL035362.D

Acq: 6 Aug 2020 23:08

Tgt Ion: 57 Resp: 75754

Ion Ratio Lower Upper

57 100

41 110.8 75.2 112.8

43 80.3 180.6 270.8#

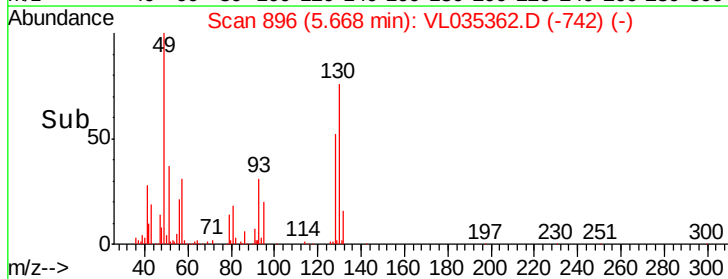
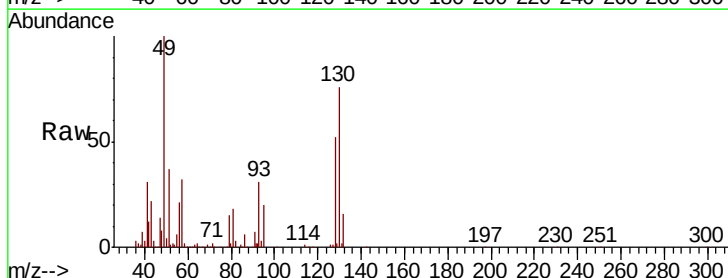
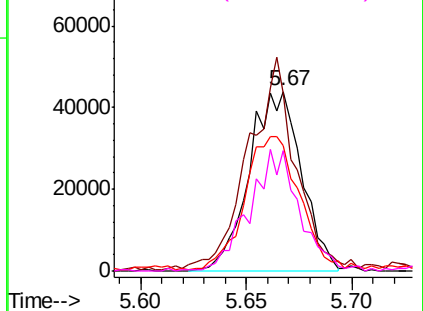
56 65.0 43.0 64.6#

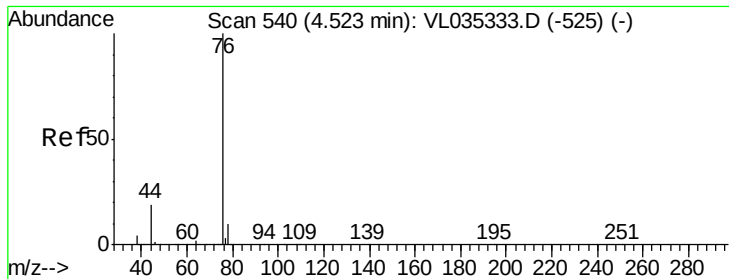
Abundance Ion 57.10 (56.80 to 57.80): VL0

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





#27

Carbon Disulfide

Concen: 0.194 ppbv

RT: 4.51 min Scan# 537

Delta R.T. -0.01 min

Lab File: VL035362.D

Acq: 6 Aug 2020 23:08

Instrument :

MSVOA_L

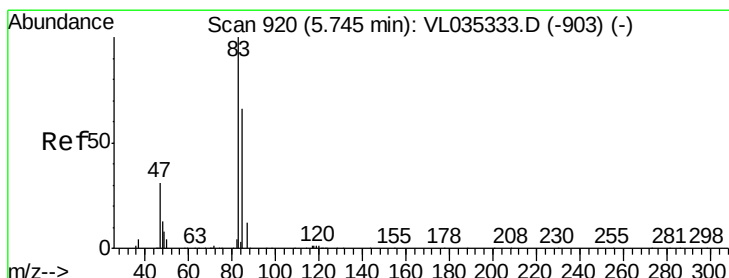
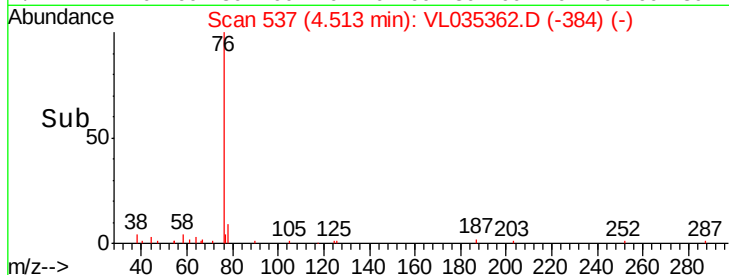
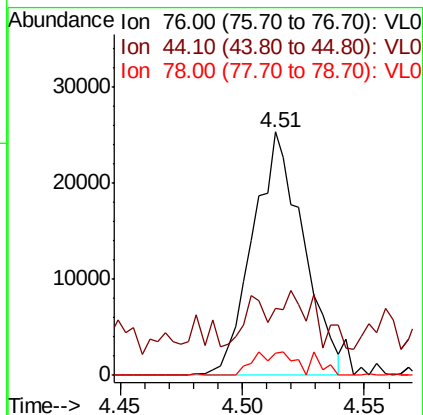
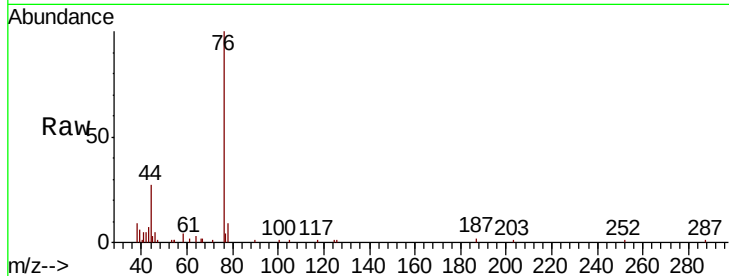
ClientSampleId :

4-UNDER-GROUND DL

Tot Ion:	76	Resp:	36349
Ion	Ratio	Lower	Upper
76	100		
44	24.8	15.4	23.2#
78	9.8	7.7	11.5

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#29

Chloroform

Concen: 0.256 ppbv

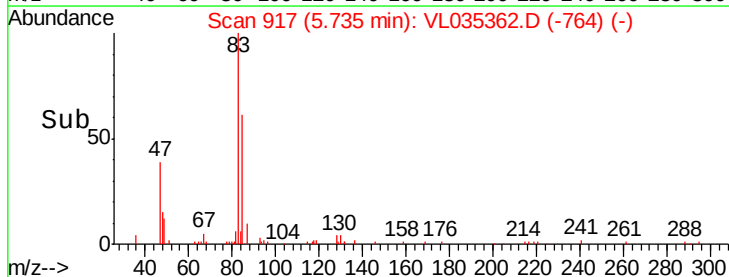
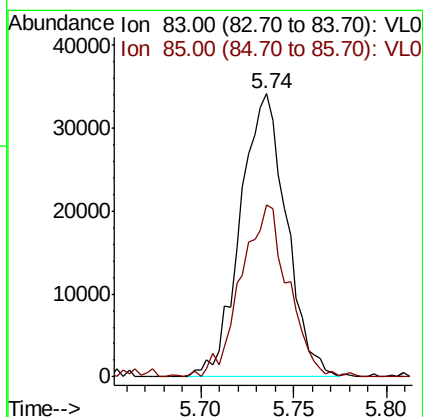
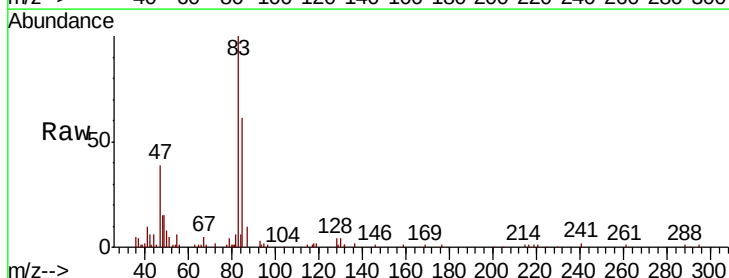
RT: 5.74 min Scan# 917

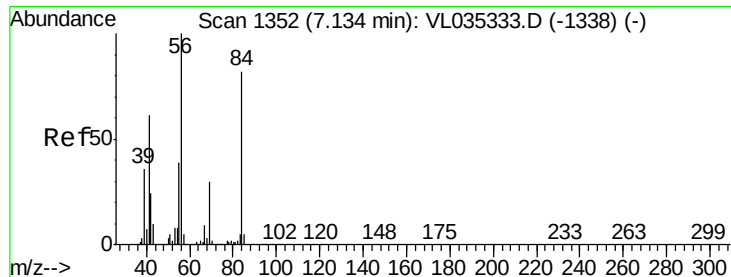
Delta R.T. -0.01 min

Lab File: VL035362.D

Acq: 6 Aug 2020 23:08

Tgt Ion:	83	Resp:	58955
Ion	Ratio	Lower	Upper
83	100		
85	60.5	52.9	79.3





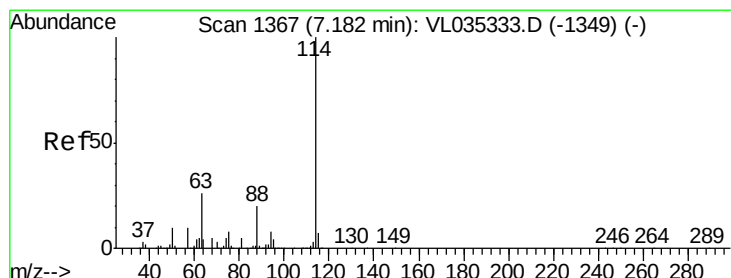
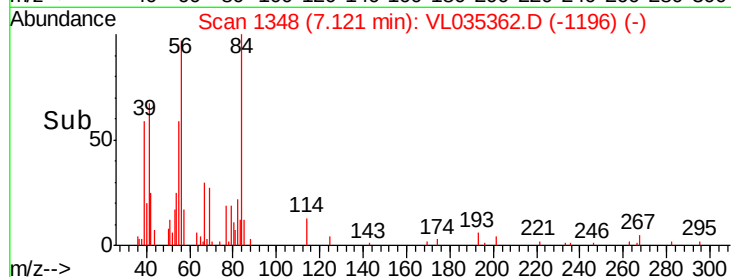
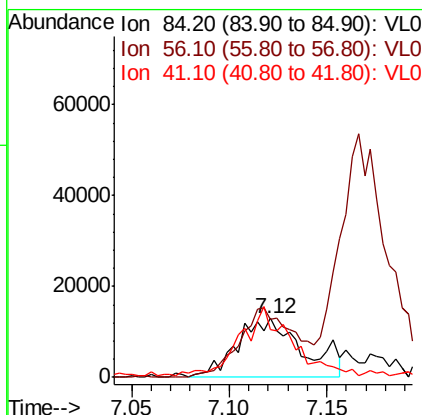
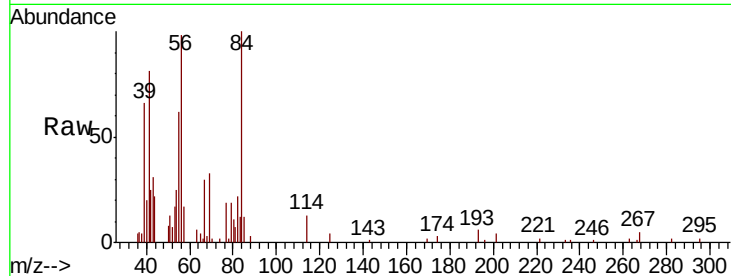
#30
Cyclohexane
Concen: 0.296 ppbv m
RT: 7.12 min Scan# 1348
Delta R.T. -0.01 min
Lab File: VL035362.D
Acq: 6 Aug 2020 23:08

Instrument :
MSVOA_L
ClientSampleId :
4-UNDER-GROUNDL

Tot Ion	Ratio	Lower	Upper
84	100		
56	0.0	104.7	157.1#
41	0.0	64.2	96.2#

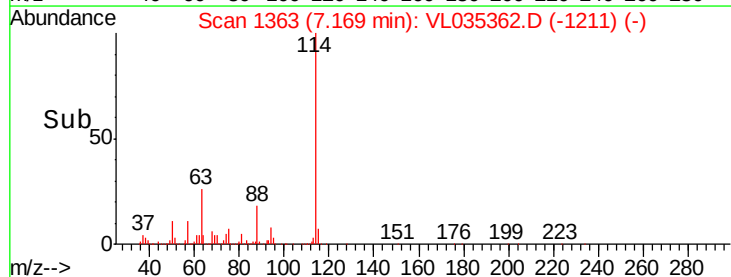
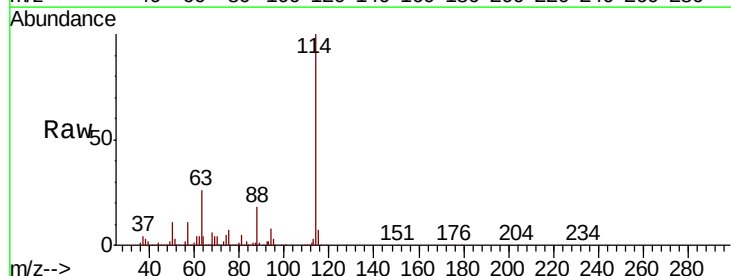
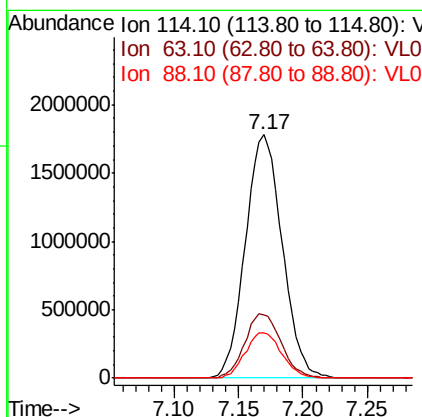
Manual Integrations
APPROVED

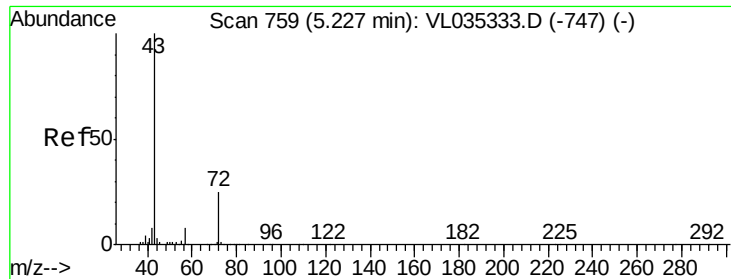
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8/7/2020 12:54:35 PM



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.17 min Scan# 1363
Delta R.T. -0.01 min
Lab File: VL035362.D
Acq: 6 Aug 2020 23:08

Tgt Ion	Ratio	Lower	Upper
114	100		
63	26.1	21.3	31.9
88	18.6	15.3	22.9





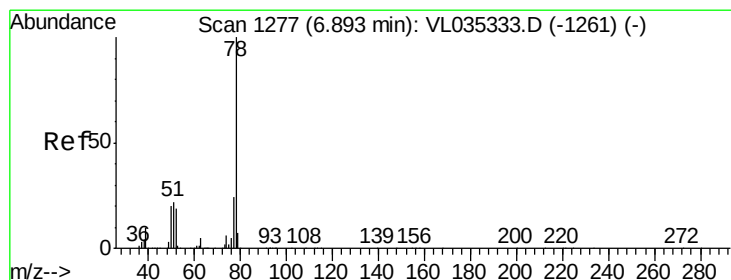
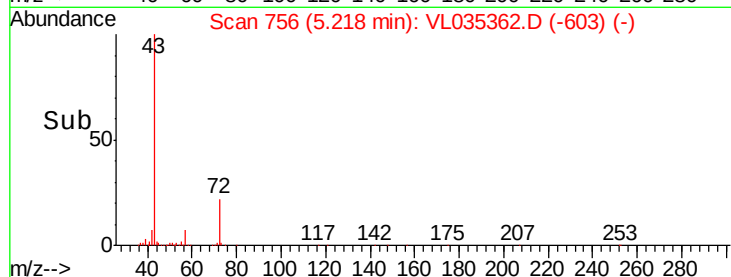
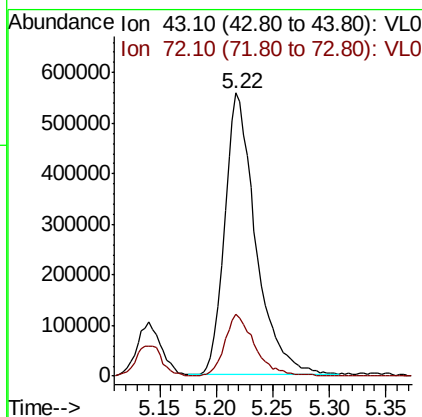
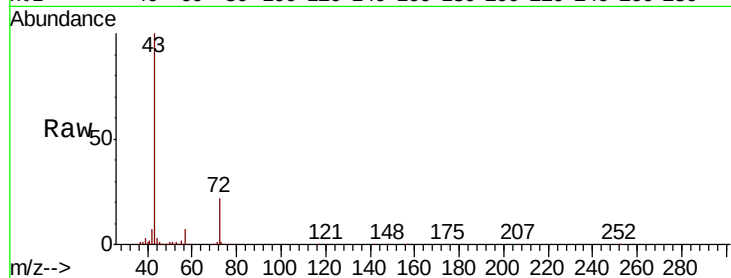
#34
 2-Butanone
 Concen: 6.096 ppbv
 RT: 5.22 min Scan# 756
 Delta R.T. -0.01 min
 Lab File: VL035362.D
 Acq: 6 Aug 2020 23:08

Instrument :
 MSVOA_L
 ClientSampleId :
 4-UNDER-GROUND DL

Tot Ion: 43 Resp: 1066457
 Ion Ratio Lower Upper
 43 100
 72 21.2 18.9 28.3

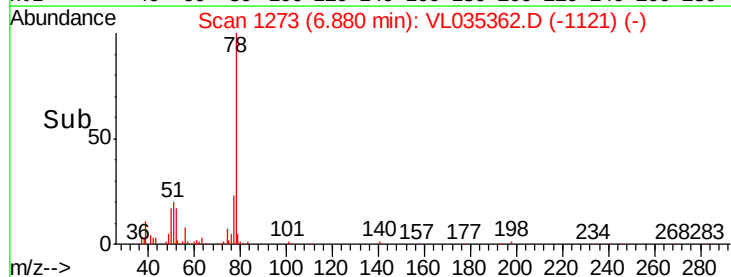
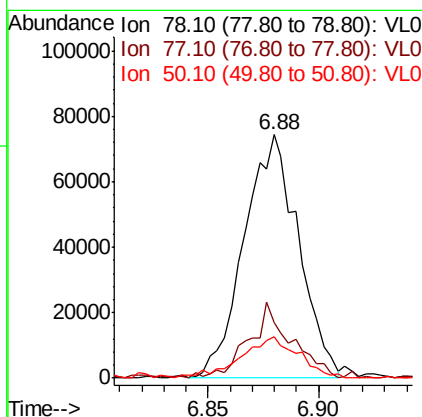
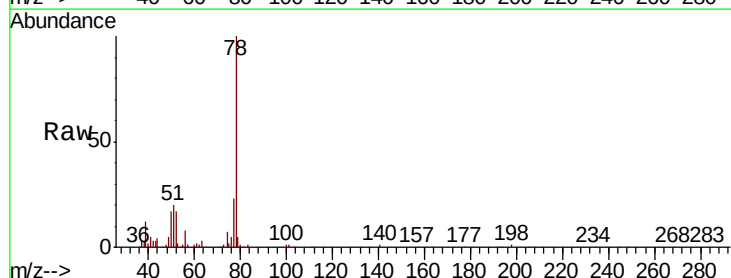
Manual Integrations
 APPROVED

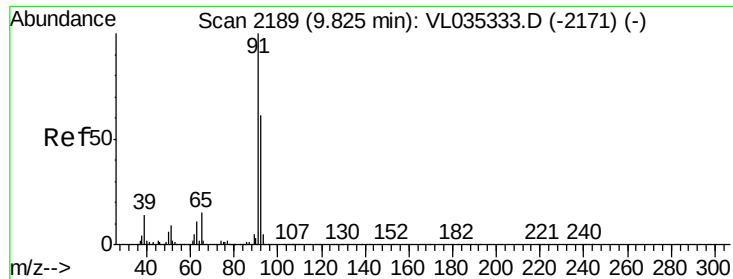
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#36
 Benzene
 Concen: 0.527 ppbv
 RT: 6.88 min Scan# 1273
 Delta R.T. -0.01 min
 Lab File: VL035362.D
 Acq: 6 Aug 2020 23:08

Tgt Ion: 78 Resp: 126346
 Ion Ratio Lower Upper
 78 100
 77 22.8 19.3 28.9
 50 15.8 16.3 24.5#





#53

Toluene

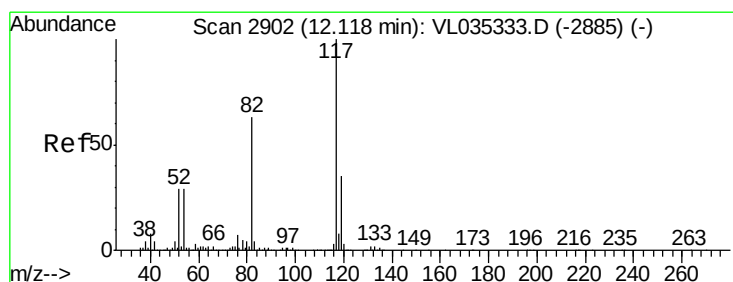
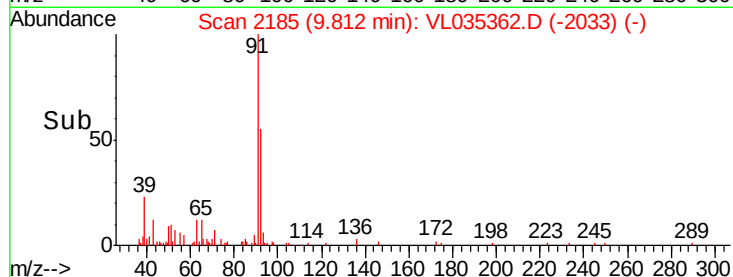
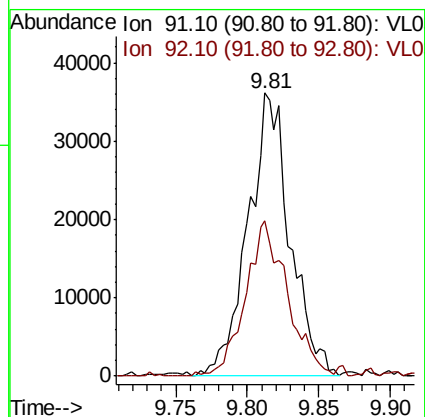
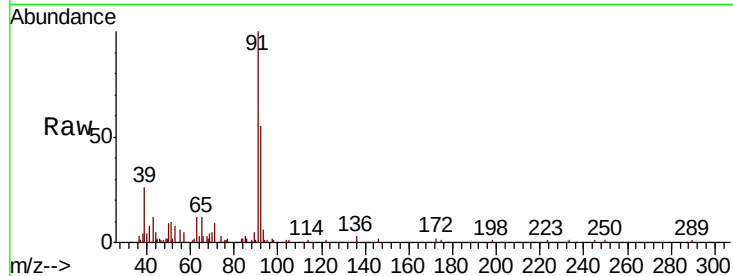
Concen: 0.282 ppbv m
 RT: 9.81 min Scan# 2185
 Delta R.T. -0.01 min
 Lab File: VL035362.D
 Acq: 6 Aug 2020 23:08

Instrument :
 MSVOA_L
 ClientSampleId :
 4-UNDER-GROUND

Tot Ion: 91 Resp: 73709
 Ion Ratio Lower Upper
 91 100
 92 56.8 48.5 72.7

Manual Integrations
 APPROVED

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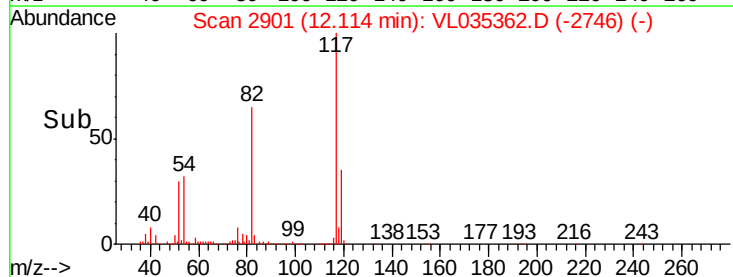
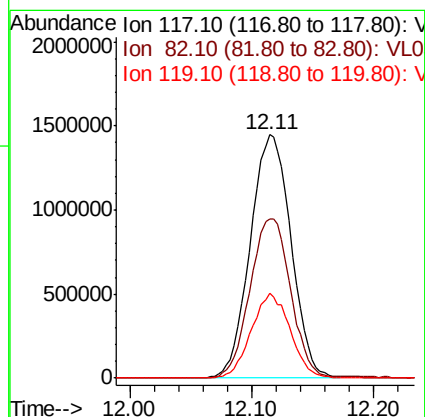
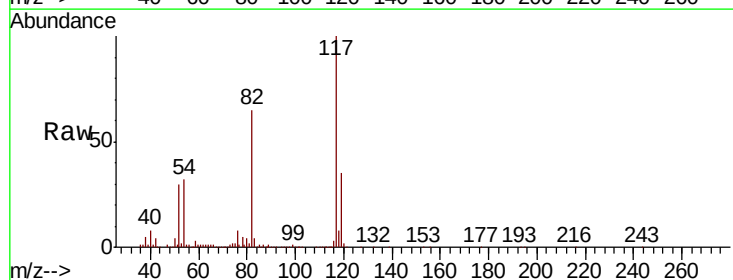


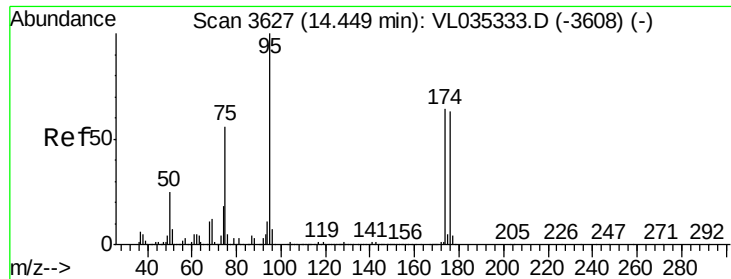
#55

Chlorobenzene-d5

Concen: 10.000 ppbv
 RT: 12.11 min Scan# 2901
 Delta R.T. -0.00 min
 Lab File: VL035362.D
 Acq: 6 Aug 2020 23:08

Tgt Ion: 117 Resp: 3341516
 Ion Ratio Lower Upper
 117 100
 82 65.4 51.0 76.4
 119 33.3 24.7 37.1





#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.722 ppbv
 RT: 14.45 min Scan# 3626
 Delta R.T. -0.00 min
 Lab File: VL035362.D
 Acq: 6 Aug 2020 23:08

Instrument :
 MSVOA_L
 ClientSampleId :
 4-UNDER-GROUND

Tot Ion	Ratio	Lower	Upper
95	100		
174	69.6	53.5	80.3
175	5.1	4.2	6.2

Manual Integrations
 APPROVED

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