

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL082020\
 Data File : VL035475.D
 Acq On : 20 Aug 2020 15:08
 Operator : SY/AP
 Sample : L3743-01DL DUP 10X
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SSMP-1DL DUP

Manual Integrations
 APPROVED

MMDadoda
 8/21/2020 11:24:18 AM

Quant Time: Aug 21 06:36:26 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL081720AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Aug 17 2020
 QLast Update : Mon Aug 17 19:28:30 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.67	49	1062740	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.18	114	4837777	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.10	117	4714075	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.43	95	3355526	10.17	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	101.70%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
3) Chlorodifluoromethane	2.98	51	103019m	0.773	ppbv	
9) Propene	3.02	41	38557m	0.720	ppbv	
13) Ethanol	3.60	45	113355	5.777	ppbv	94
15) Acetone	3.85	43	388510	3.176	ppbv #	77
20) Methylene Chloride	4.34	84	574951	5.826	ppbv #	64
26) Hexane	5.69	57	182221	1.357	ppbv #	29
34) 2-Butanone	5.26	43	70891	0.439	ppbv #	68
38) Trichloroethene	7.84	130	1789908	9.062	ppbv #	84
41) Tetrahydrofuran	6.08	42	14208m	0.159	ppbv	
50) 4-Methyl-2-Pentanone	8.77	43	32051	0.138	ppbv #	85
52) Tetrachloroethene	11.23	164	1436784	6.634	ppbv #	84
53) Toluene	9.82	91	253062	0.553	ppbv	99
59) m/p-Xylene	12.98	91	146253m	0.304	ppbv	
60) o-Xylene	13.71	91	57681	0.123	ppbv	89
74) 1,2,4-Trimethylbenzene	16.78	105	196812	0.317	ppbv #	69

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

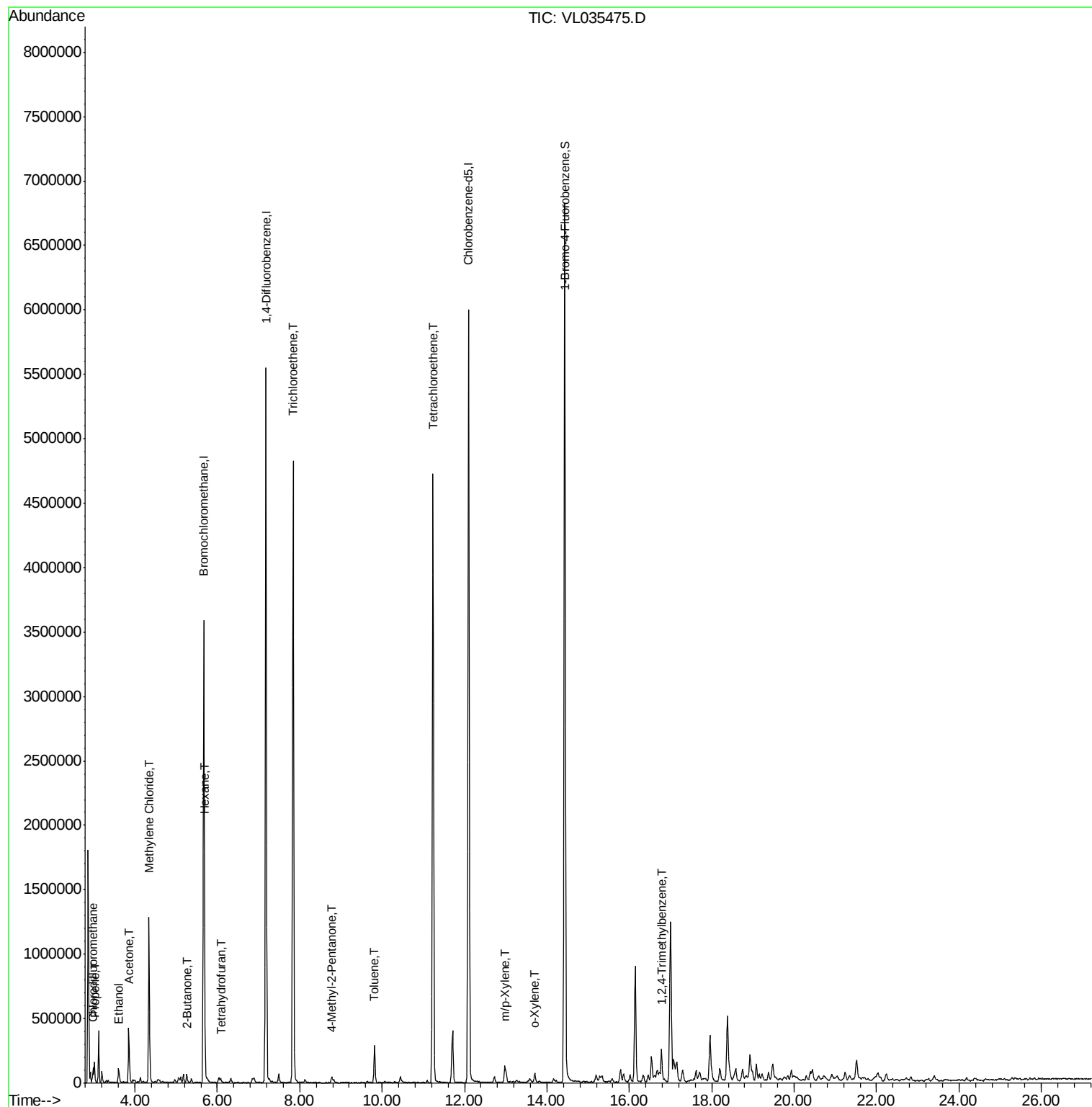
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL082020\
Data File : VL035475.D
Acq On : 20 Aug 2020 15:08
Operator : SY/AP
Sample : L3743-01DLUP 10X
Misc : 400ml/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
SSMP-1DLUP

Manual Integrations
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8/21/2020 11:24:18 AM

Quant Time: Aug 21 06:36:26 2020
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL081720AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Aug
QLast Update : Mon Aug 17 19:28:30 2020
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.67 min Scan# 896

Delta R.T. -0.01 min

Lab File: VL035475.D

Acq: 20 Aug 2020 15:08

Instrument :

MSVOA_L

ClientSampleId :

SSMP-1DLDP

Tot Ion: 49 Resp: 1062740

Ion Ratio Lower Upper

49 100

128 102.1 20.9 62.7#

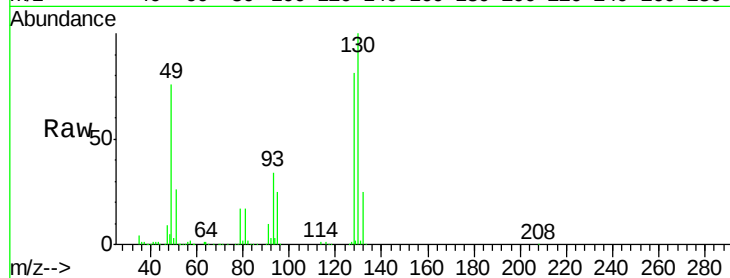
130 130.4 26.7 80.1#

Manual Integrations

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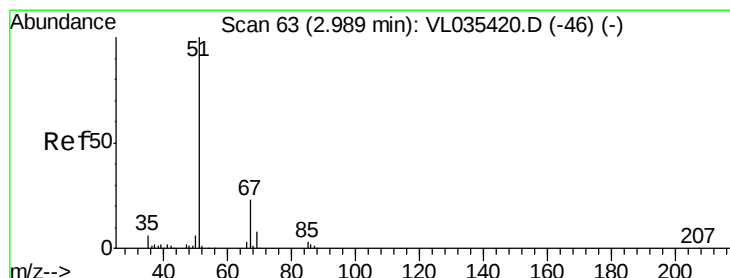
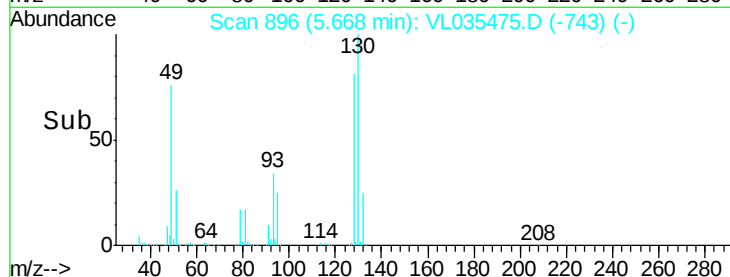
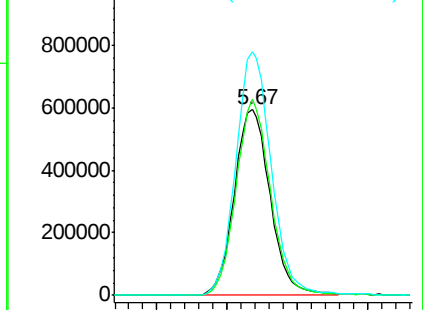
8/21/2020 11:24:18 AM



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



#3

Chlorodifluoromethane

Concen: 0.773 ppbv m

RT: 2.98 min Scan# 61

Delta R.T. -0.00 min

Lab File: VL035475.D

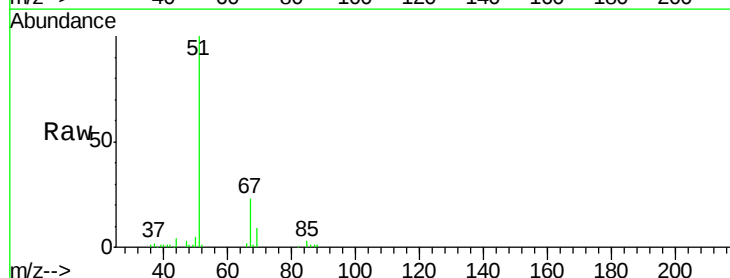
Acq: 20 Aug 2020 15:08

Tgt Ion: 51 Resp: 103019

Ion Ratio Lower Upper

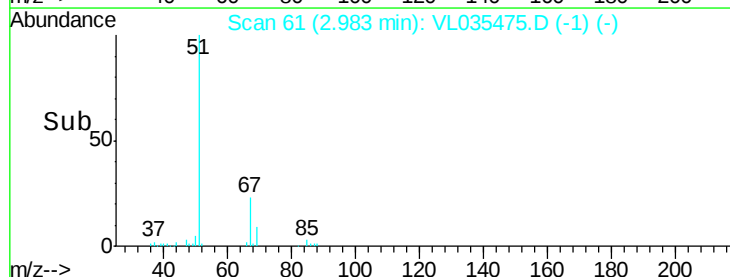
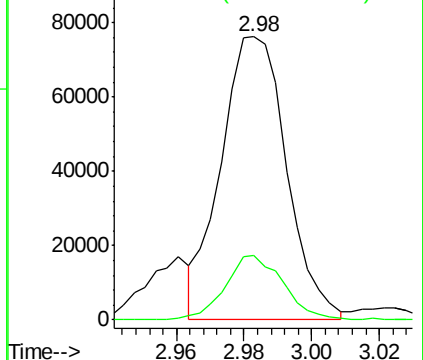
51 100

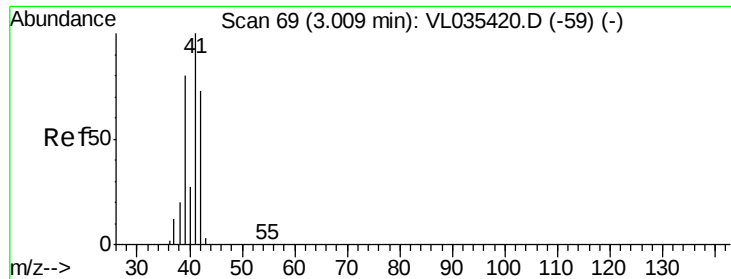
67 20.3 15.0 22.6



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0





#9

Propene

Concen: 0.720 ppbv m

RT: 3.02 min Scan# 71

Delta R.T. 0.01 min

Lab File: VL035475.D

Acq: 20 Aug 2020 15:08

Instrument :

MSVOA_L

ClientSampleId :

SSMP-1DLDP

Tot Ion: 41 Resp: 38557

Ion Ratio Lower Upper

41 100

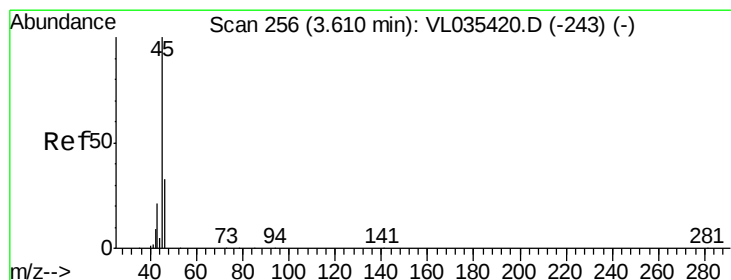
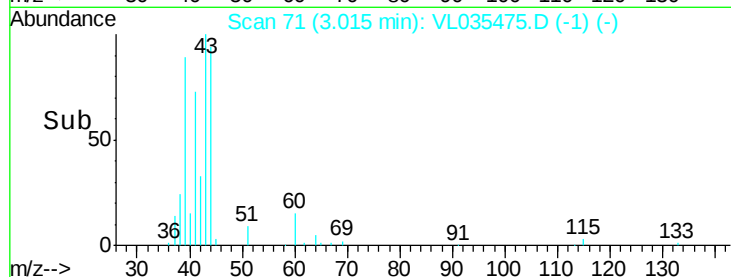
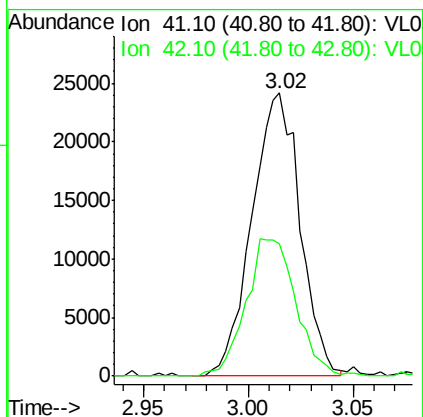
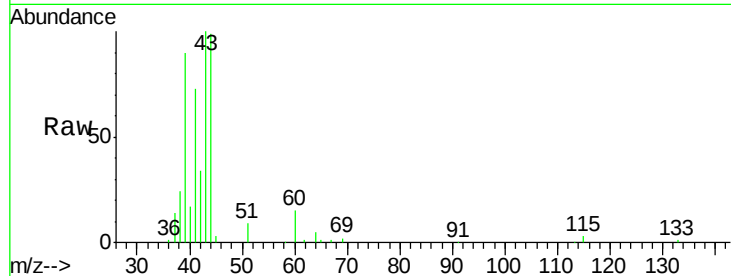
42 5.8 55.5 83.3#

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#13

Ethanol

Concen: 5.777 ppbv

RT: 3.60 min Scan# 254

Delta R.T. 0.00 min

Lab File: VL035475.D

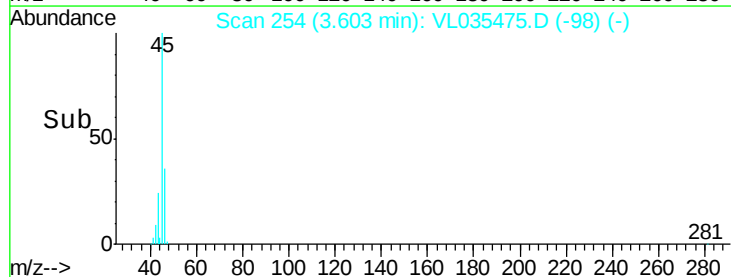
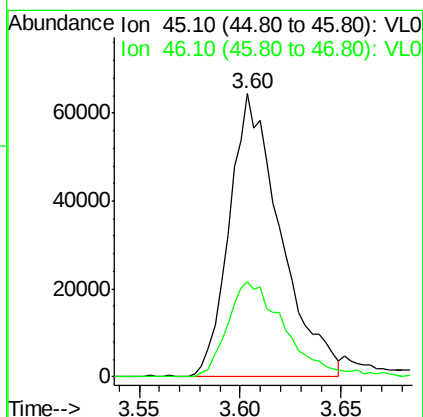
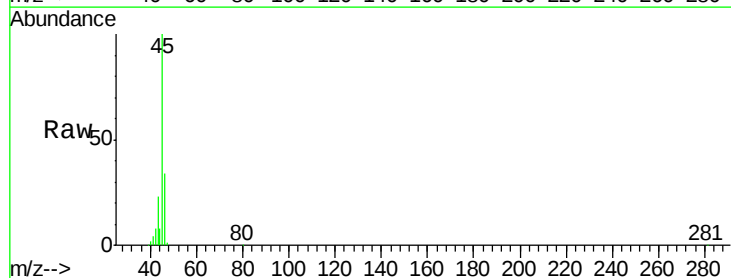
Acq: 20 Aug 2020 15:08

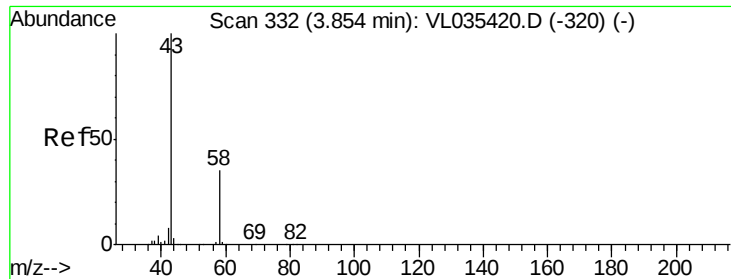
Tgt Ion: 45 Resp: 113355

Ion Ratio Lower Upper

45 100

46 38.9 14.2 56.6





#15

Acetone

Concen: 3.176 ppbv

RT: 3.85 min Scan# 331

Delta R.T. 0.00 min

Lab File: VL035475.D

Acq: 20 Aug 2020 15:08

Instrument :

MSVOA_L

ClientSampleId :

SSMP-1DLDP

Tot Ion: 43 Resp: 388510

Ion Ratio Lower Upper

43 100

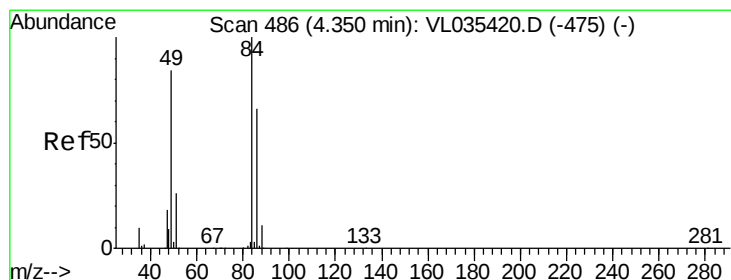
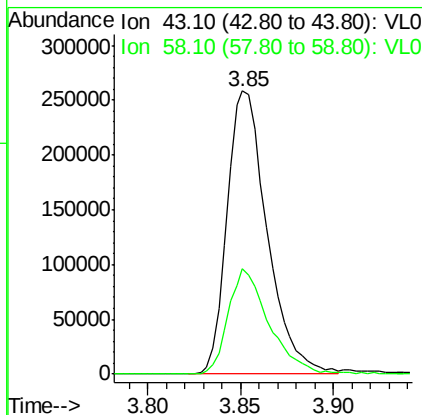
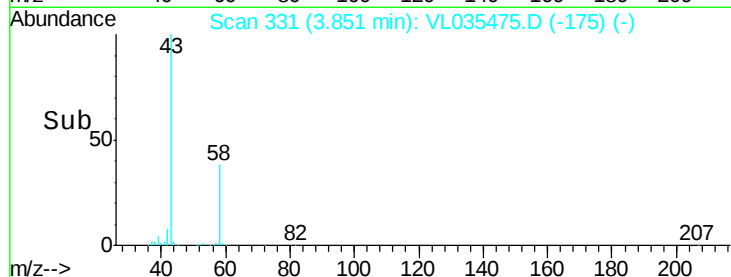
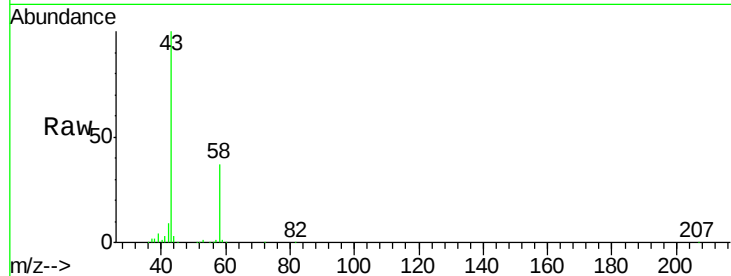
58 38.2 21.0 31.6#

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#20

Methylene Chloride

Concen: 5.826 ppbv

RT: 4.34 min Scan# 484

Delta R.T. -0.00 min

Lab File: VL035475.D

Acq: 20 Aug 2020 15:08

Tgt Ion: 84 Resp: 574951

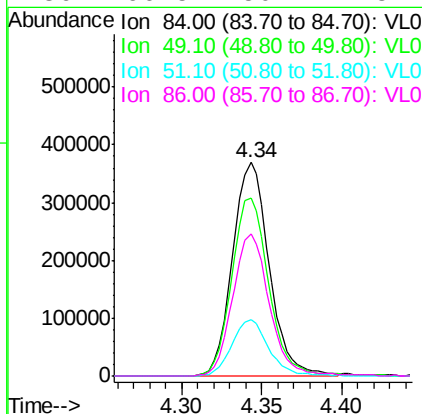
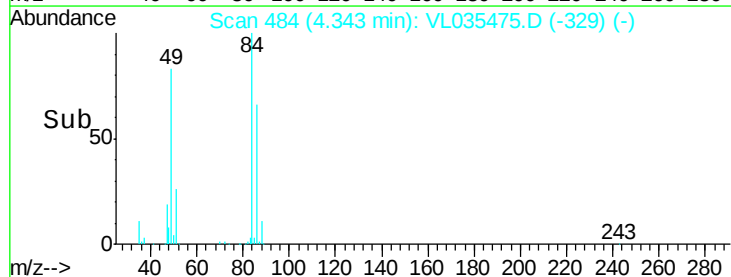
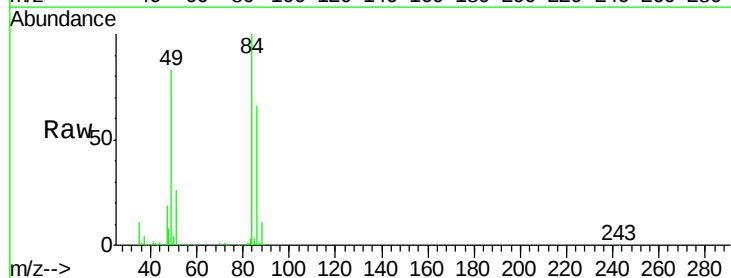
Ion Ratio Lower Upper

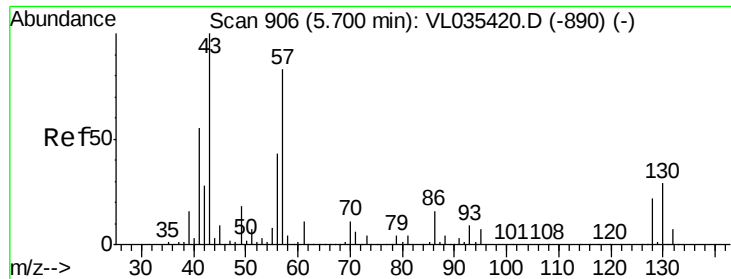
84 100

49 83.4 118.6 177.8#

51 26.1 36.4 54.6#

86 66.5 50.2 75.4





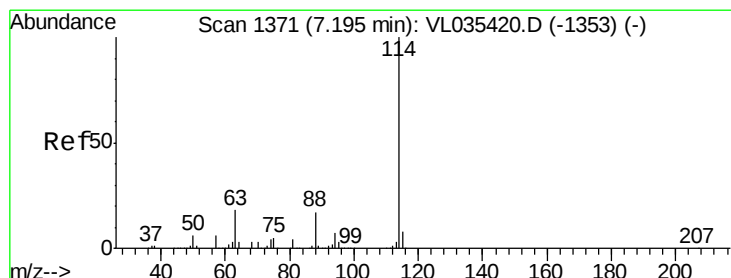
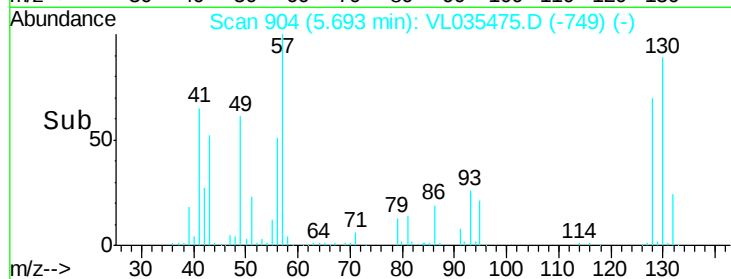
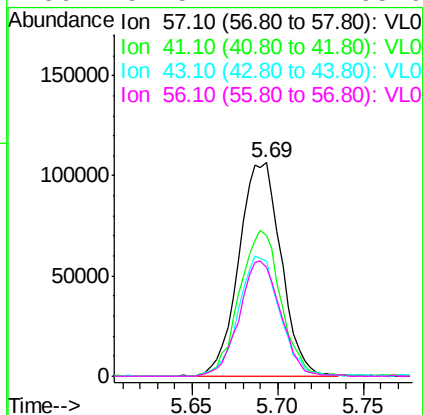
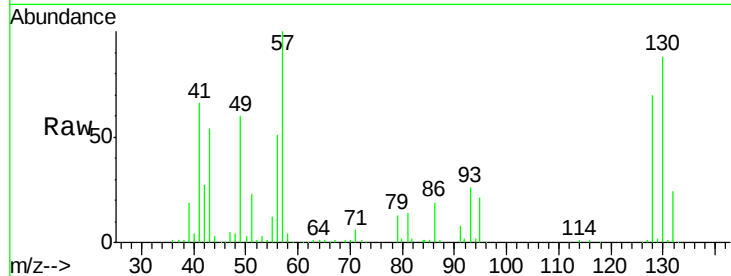
#26
Hexane
Concen: 1.357 ppbv
RT: 5.69 min Scan# 904
Delta R.T. -0.00 min
Lab File: VL035475.D
Acq: 20 Aug 2020 15:08

Instrument :
MSVOA_L
ClientSampleId :
SSMP-1DLDP

Tot Ion	Ion	Ratio	Lower	Upper
57	100			
41	67.2	75.5	113.3#	
43	55.0	181.7	272.5#	
56	52.5	42.4	63.6	

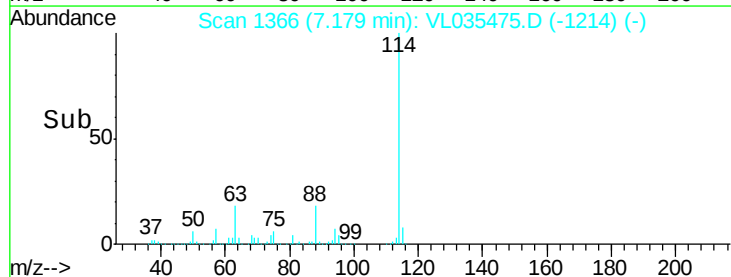
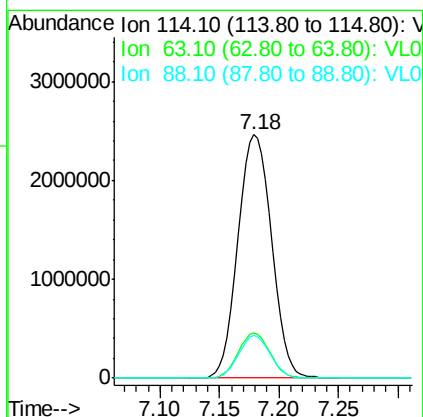
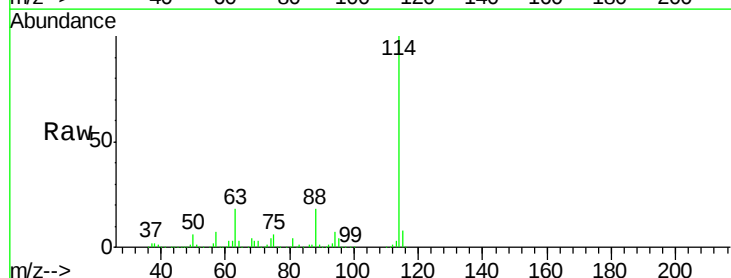
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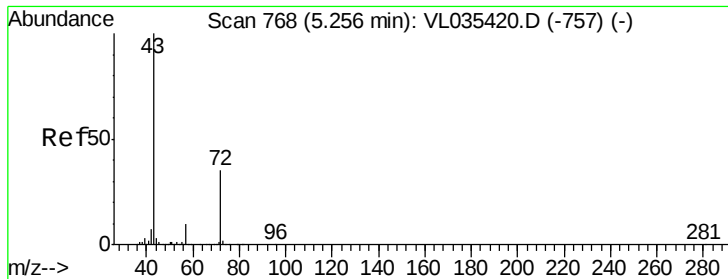
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#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.18 min Scan# 1366
Delta R.T. -0.01 min
Lab File: VL035475.D
Acq: 20 Aug 2020 15:08

Tgt Ion	Ion	Ratio	Lower	Upper
114	100			
63	17.5	23.1	34.7#	
88	16.5	15.9	23.9	





#34

2-Butanone

Concen: 0.439 ppbv

RT: 5.26 min Scan# 768

Delta R.T. 0.01 min

Lab File: VL035475.D

Acq: 20 Aug 2020 15:08

Instrument :

MSVOA_L

ClientSampleId :

SSMP-1DLDP

Tot Ion: 43 Resp: 70891

Ion Ratio Lower Upper

43 100

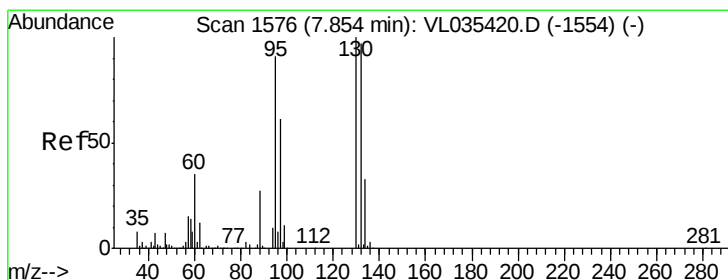
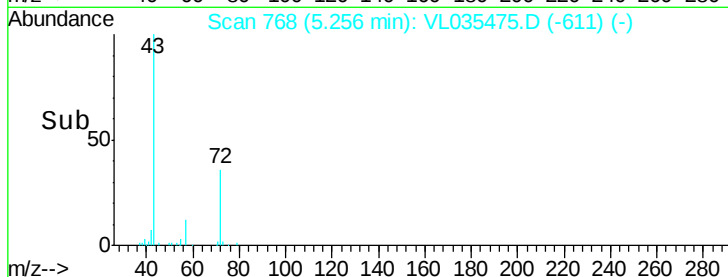
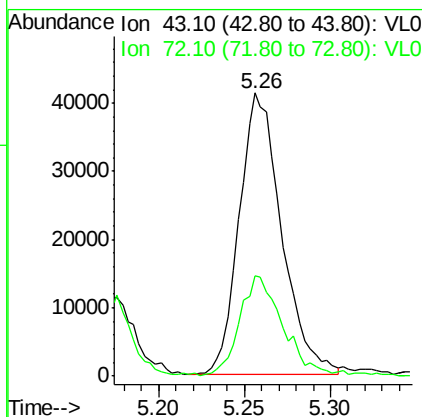
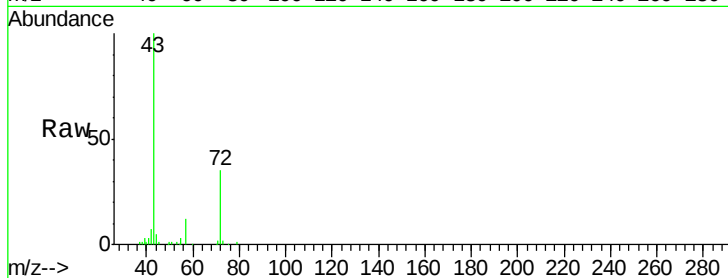
72 37.4 17.6 26.4#

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#38

Trichloroethene

Concen: 9.062 ppbv

RT: 7.84 min Scan# 1572

Delta R.T. -0.01 min

Lab File: VL035475.D

Acq: 20 Aug 2020 15:08

Tgt Ion: 130 Resp: 1789908

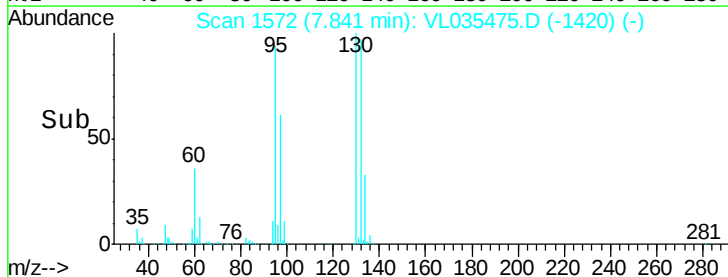
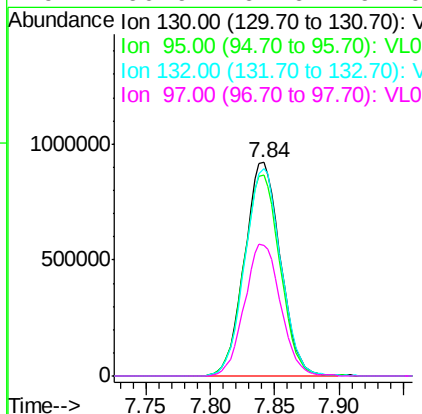
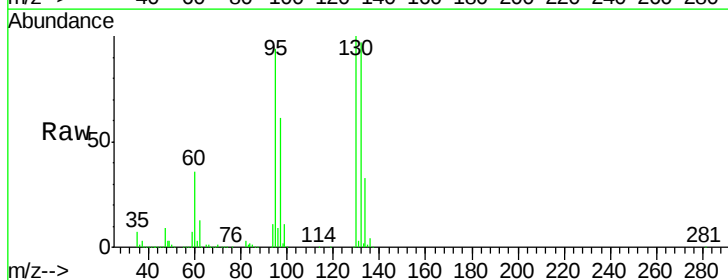
Ion Ratio Lower Upper

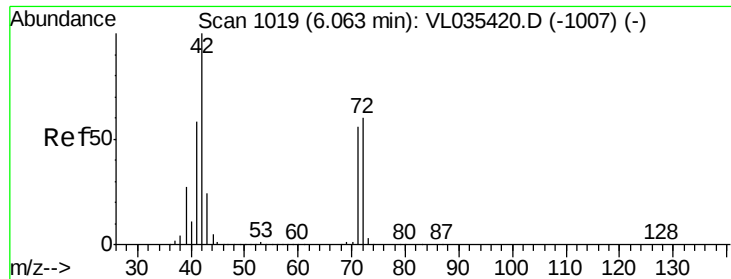
130 100

95 94.0 95.8 143.8#

132 97.3 74.3 111.5

97 60.9 62.6 94.0#





#41

Tetrahydrofuran

Concen: 0.159 ppbv m

RT: 6.08 min Scan# 1025

Delta R.T. 0.03 min

Lab File: VL035475.D

Acq: 20 Aug 2020 15:08

Instrument :

MSVOA_L

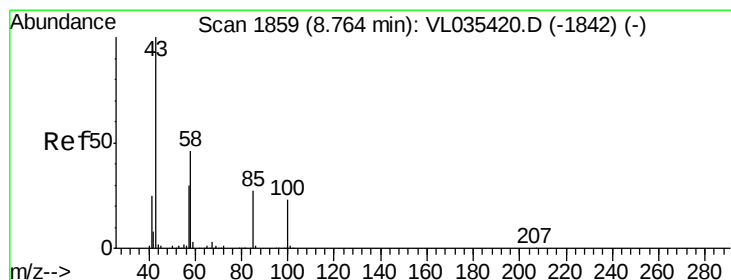
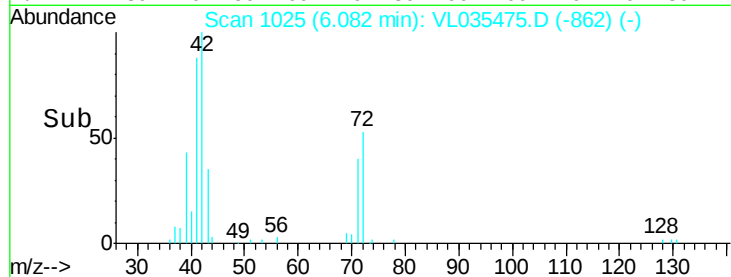
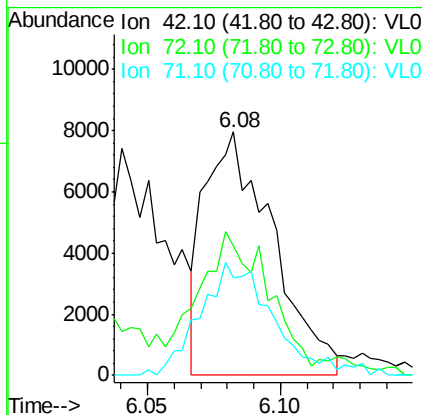
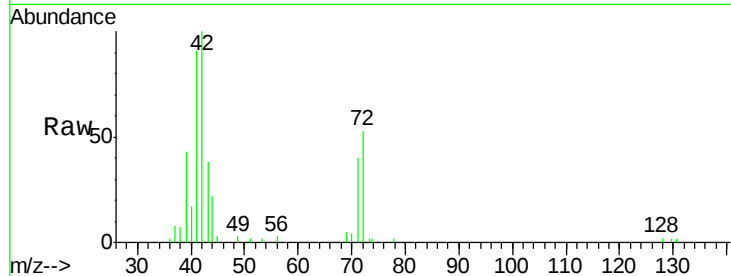
ClientSampleId :

SSMP-1DLDP

Tot Ion:	42	Resp:	14208
Ion	Ratio	Lower	Upper
42	100		
72	0.0	29.4	44.2#
71	0.0	28.9	43.3#

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#50

4-Methyl-2-Pentanone

Concen: 0.138 ppbv

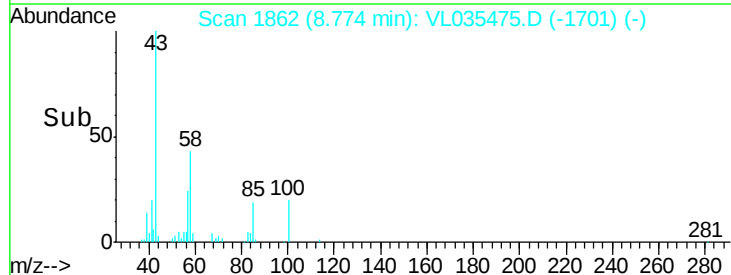
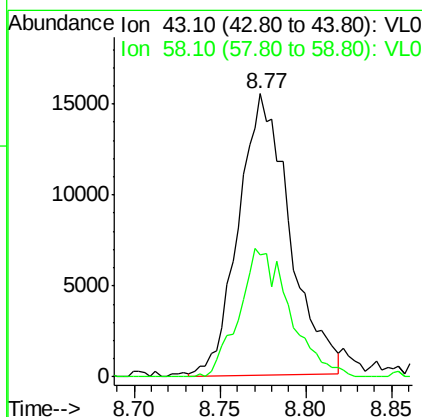
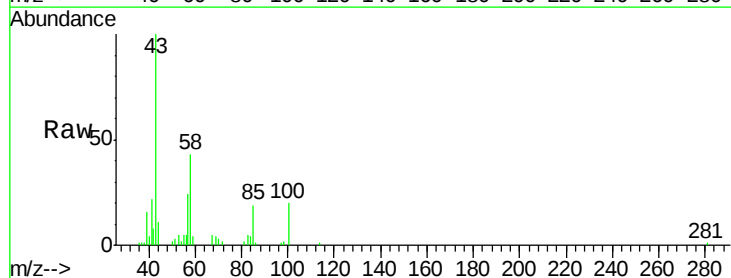
RT: 8.77 min Scan# 1862

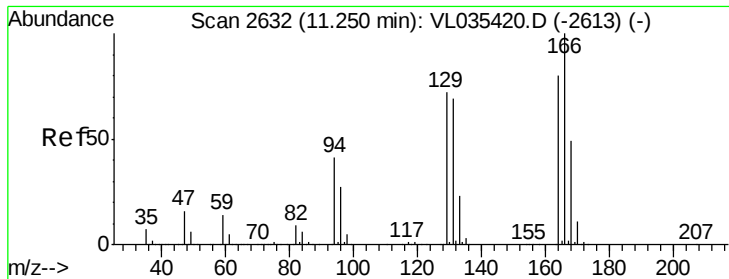
Delta R.T. 0.02 min

Lab File: VL035475.D

Acq: 20 Aug 2020 15:08

Tgt Ion:	43	Resp:	32051
Ion	Ratio	Lower	Upper
43	100		
58	44.9	28.7	43.1#





#52

Tetrachloroethene

Concen: 6.634 ppbv

RT: 11.23 min Scan# 2627

Delta R.T. -0.01 min

Lab File: VL035475.D

Acq: 20 Aug 2020 15:08

Instrument :

MSVOA_L

ClientSampleId :

SSMP-1DLDP

Tot Ion:164 Resp: 1436784

Ion Ratio Lower Upper

164 100

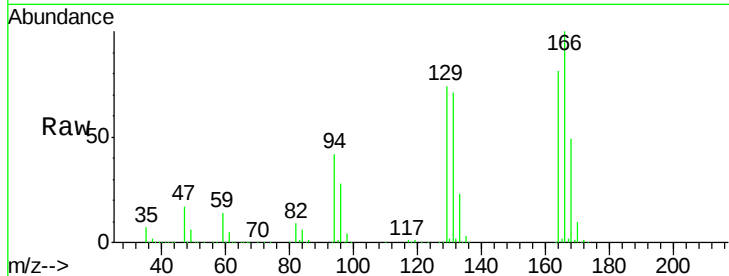
166 123.8 103.4 155.0

129 91.9 90.2 135.4

131 88.2 91.7 137.5#

Manual Integrations
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MMDadoda
8/21/2020 11:24:18 AM

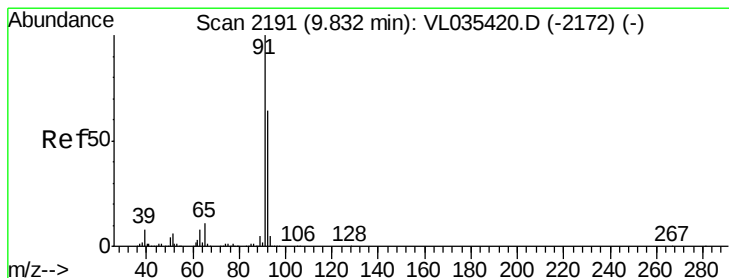
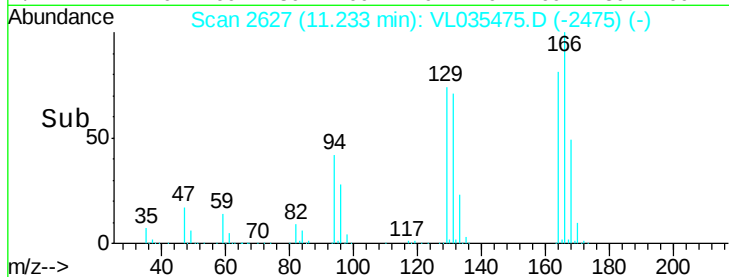
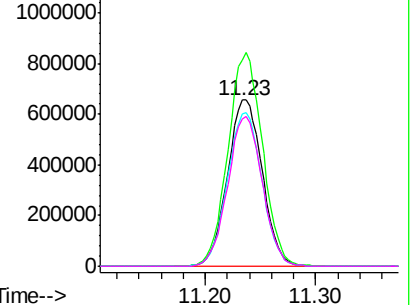


Abundance Ion 163.90 (163.60 to 164.60): V

Ion 165.90 (165.60 to 166.60): V

Ion 129.00 (128.70 to 129.70): V

Ion 131.00 (130.70 to 131.70): V



#53

Toluene

Concen: 0.553 ppbv

RT: 9.82 min Scan# 2186

Delta R.T. -0.01 min

Lab File: VL035475.D

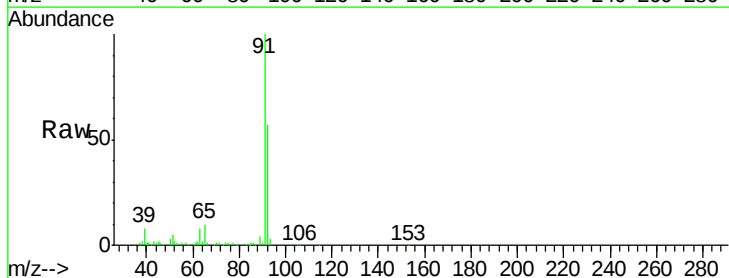
Acq: 20 Aug 2020 15:08

Tgt Ion: 91 Resp: 253062

Ion Ratio Lower Upper

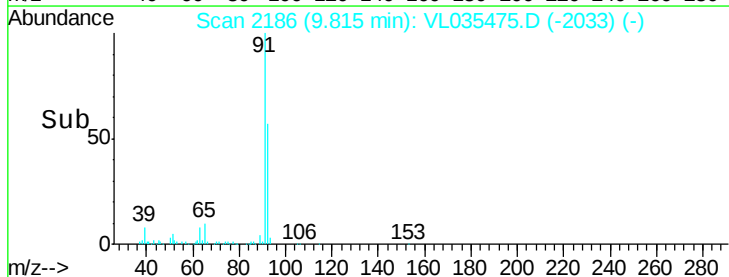
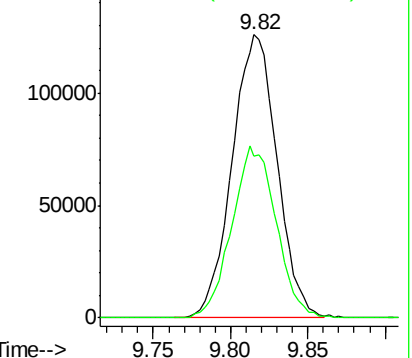
91 100

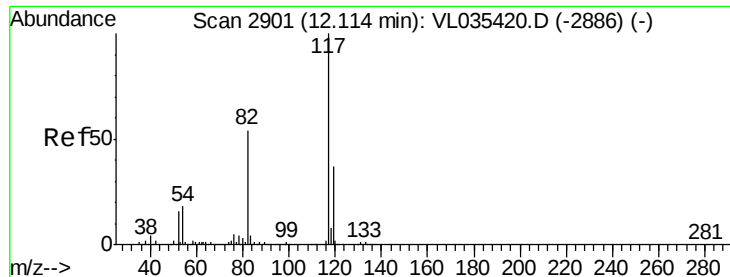
92 60.3 49.1 73.7



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0





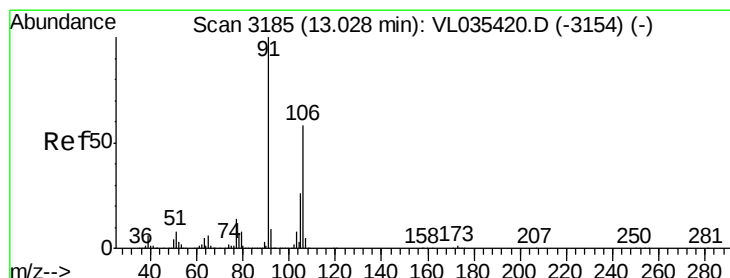
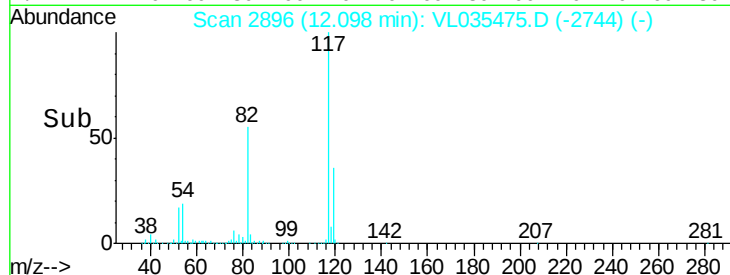
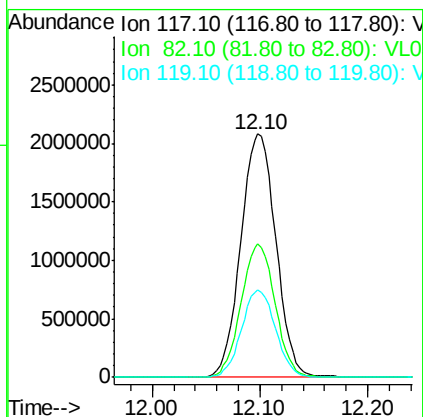
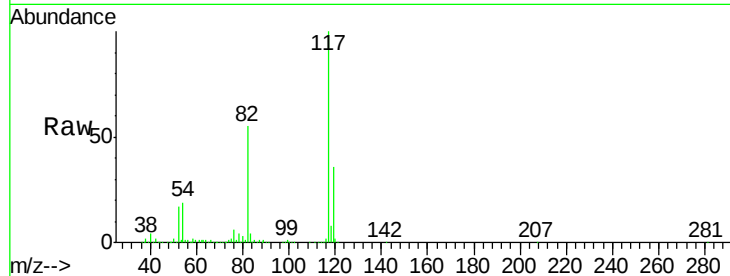
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.10 min Scan# 2896
Delta R.T. -0.01 min
Lab File: VL035475.D
Acq: 20 Aug 2020 15:08

Instrument :
MSVOA_L
ClientSampleId :
SSMP-1DLDP

Tot Ion:117 Resp: 4714075
Ion Ratio Lower Upper
117 100
82 53.4 57.4 86.0#
119 34.9 28.4 42.6

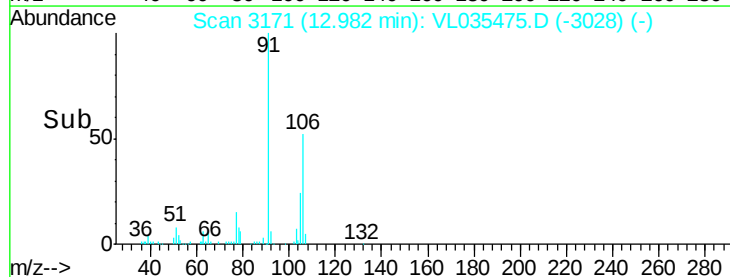
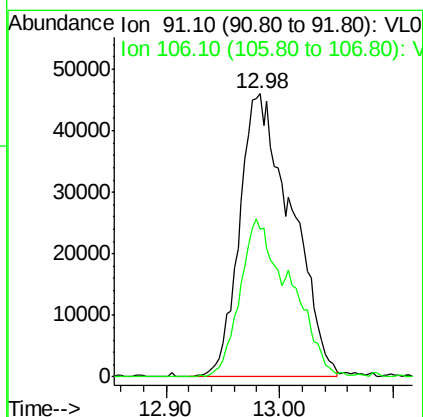
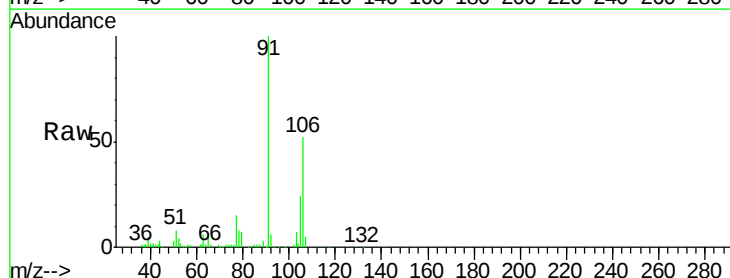
Manual Integrations
APPROVED

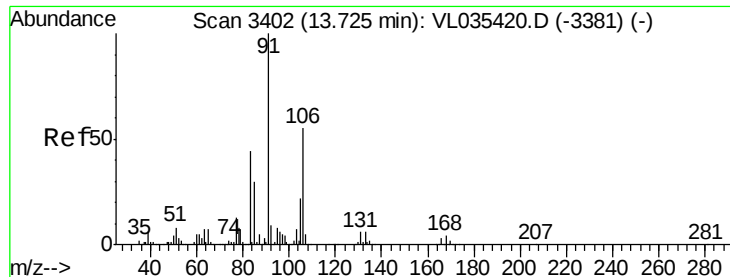
MMDadoda
8/21/2020 11:24:18 AM



#59
m/p-Xylene
Concen: 0.304 ppbv m
RT: 12.98 min Scan# 3171
Delta R.T. -0.04 min
Lab File: VL035475.D
Acq: 20 Aug 2020 15:08

Tgt Ion: 91 Resp: 146253
Ion Ratio Lower Upper
91 100
106 0.0 34.0 51.0#





#60

o-Xylene

Concen: 0.123 ppbv

RT: 13.71 min Scan# 3396

Delta R.T. -0.01 min

Lab File: VL035475.D

Acq: 20 Aug 2020 15:08

Instrument :

MSVOA_L

ClientSampleId :

SSMP-1DLDP

Tot Ion: 91 Resp: 57681

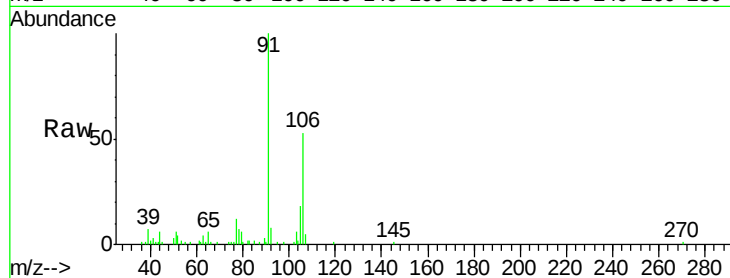
Ion Ratio Lower Upper

91 100

106 50.8 21.8 65.3

Manual Integrations
APPROVED

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8/21/2020 11:24:18 AM



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V

13.71

30000

25000

20000

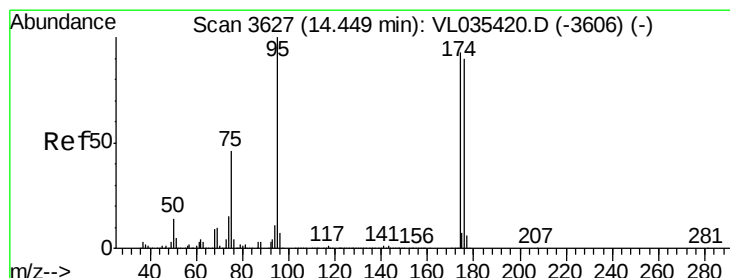
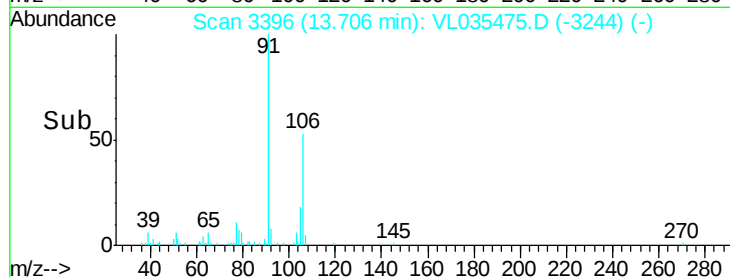
15000

10000

5000

0

Time-->



#68

1-Bromo-4-Fluorobenzene

Concen: 10.168 ppbv

RT: 14.43 min Scan# 3622

Delta R.T. -0.01 min

Lab File: VL035475.D

Acq: 20 Aug 2020 15:08

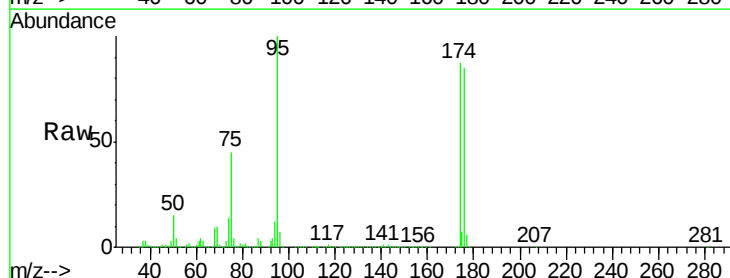
Tgt Ion: 95 Resp: 3355526

Ion Ratio Lower Upper

95 100

174 89.6 44.0 66.0#

175 6.5 3.2 4.8#



Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V

2000000

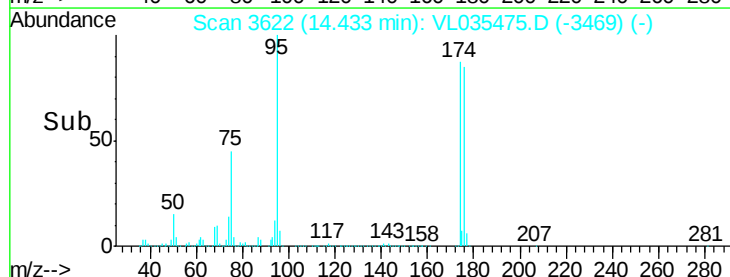
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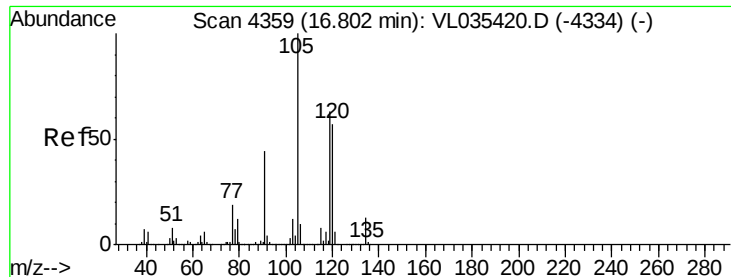
1000000

500000

0

Time-->





#74
 1,2,4-Trimethylbenzene
 Concen: 0.317 ppbv
 RT: 16.78 min Scan# 4353
 Delta R.T. -0.01 min
 Lab File: VL035475.D
 Acq: 20 Aug 2020 15:08

Instrument :
 MSVOA_L
 ClientSampleId :
 SSMP-1DLDP

Tot Ion	Ratio	Resp Lower	Upper
105	100		
120	50.4	37.8	56.8
91	9.6	40.0	60.0#
77	11.8	18.8	28.2#

Manual Integrations
 APPROVED

MMDadoda
 8/21/2020 11:24:18 AM

