

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL080421\
 Data File : VL037330.D
 Acq On : 5 Aug 2021 6:00
 Operator : SY/AP
 Sample : M3211-02DL 10X
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SVP-2DL

Manual Integrations
 APPROVED

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 8/5/2021 1:41:11 PM

Quant Time: Aug 05 06:56:15 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL080421AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed Aug 0
 QLast Update : Wed Aug 04 22:53:01 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.66	49	1120910	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.17	114	3649672	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.08	117	2979877	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.40	95	2162285	10.62	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	106.20%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
9) Propene	3.02	41	24528m	0.298	ppbv	
13) Ethanol	3.62	45	34652	2.792	ppbv	96
15) Acetone	3.85	43	583084	4.789	ppbv	91
19) Isopropyl Alcohol	3.99	45	26817m	0.398	ppbv	
20) Methylene Chloride	4.34	84	242534	2.406	ppbv	96
26) Hexane	5.68	57	137849	0.778	ppbv #	48
27) Carbon Disulfide	4.55	76	40658m	0.282	ppbv	
30) Cyclohexane	7.12	84	20729m	0.152	ppbv	
32) 1,1,1-Trichloroethane	6.50	97	8053m	0.038	ppbv	
34) 2-Butanone	5.24	43	298113	2.354	ppbv	96
41) Tetrahydrofuran	6.05	42	451594	6.412	ppbv	97
51) 2-Hexanone	10.16	43	19471m	0.221	ppbv	
52) Tetrachloroethene	11.21	164	99012	0.700	ppbv	91
53) Toluene	9.80	91	67146m	0.173	ppbv	
59) m/p-Xylene	12.95	91	42048m	0.114	ppbv	

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

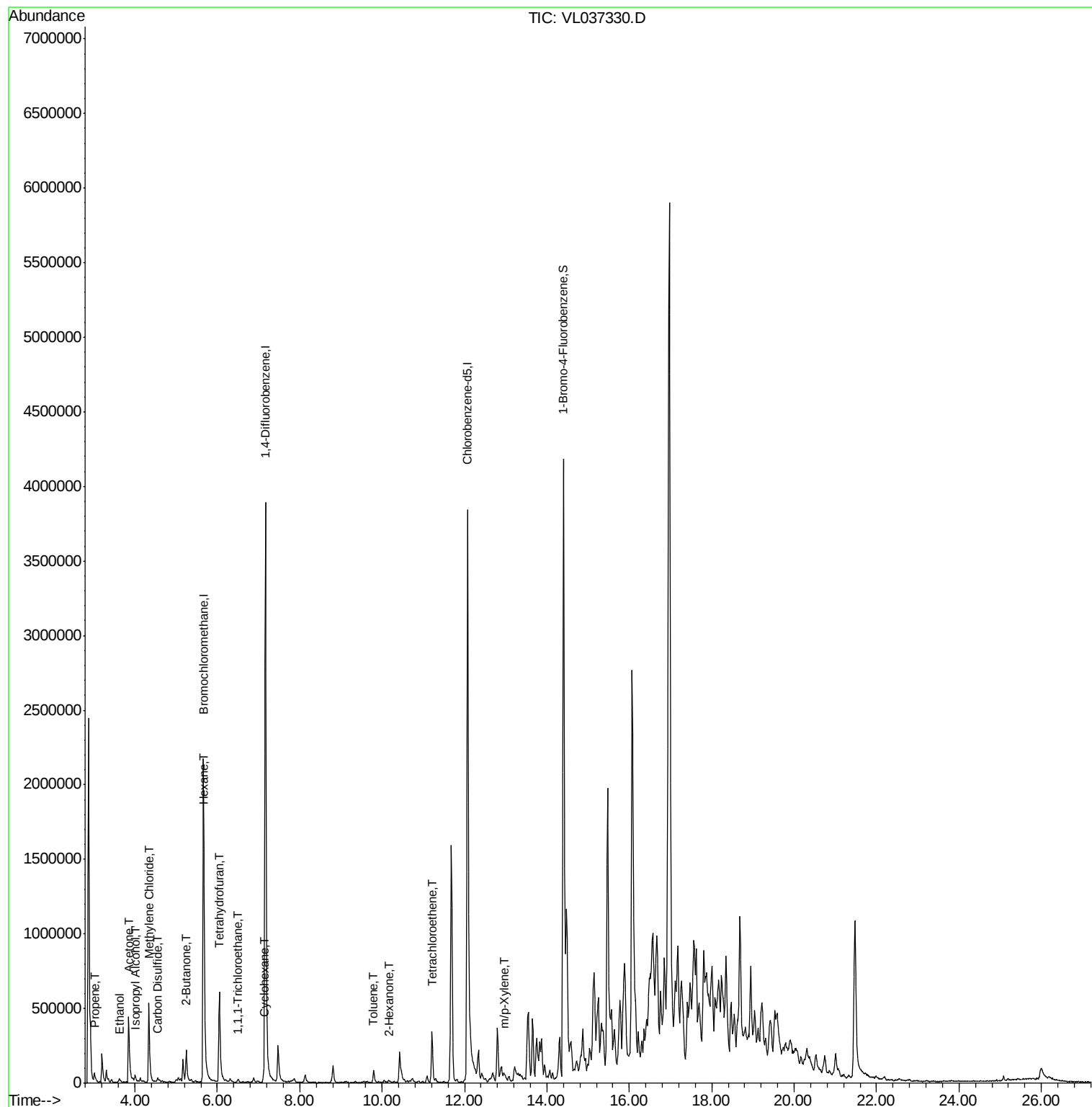
Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL080421\
Data File : VL037330.D
Acq On : 5 Aug 2021 6:00
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Sample : M3211-02DL 10X
Misc : 400mL/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

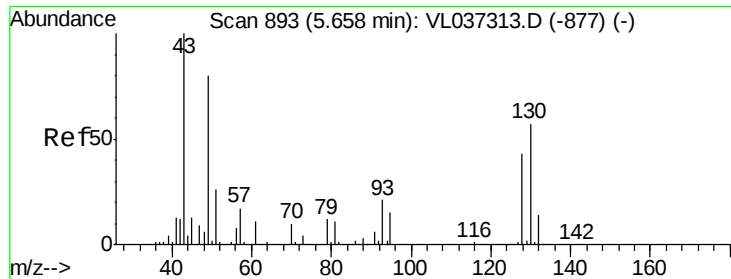
Instrument :
MSVOA_L
ClientSampleId :
SVP-2DL

Manual Integrations
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Quant Time: Aug 05 06:56:15 2021
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL080421AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed Aug
QLast Update : Wed Aug 04 22:53:01 2021
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.66 min Scan# 893

Delta R.T. -0.00 min

Lab File: VL037330.D

Acq: 5 Aug 2021 6:00

Instrument :

MSVOA_L

ClientSampleId :

SVP-2DL

Tot Ion: 49 Resp: 1120910

Ion Ratio Lower Upper

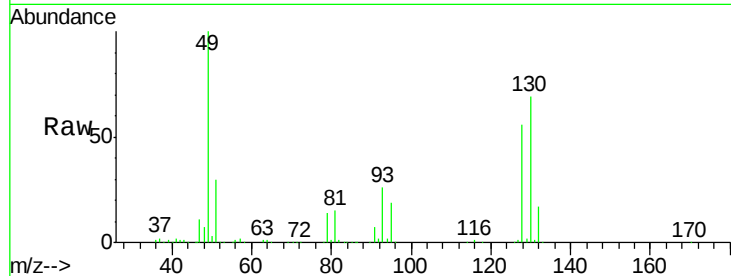
49 100

128 60.2 29.8 89.5

130 78.2 37.5 112.7

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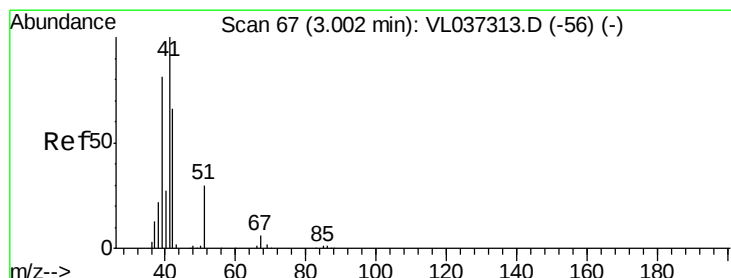
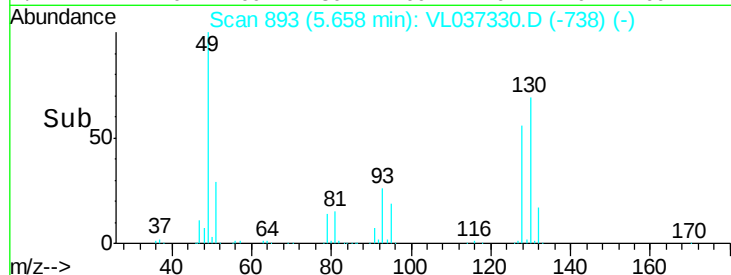
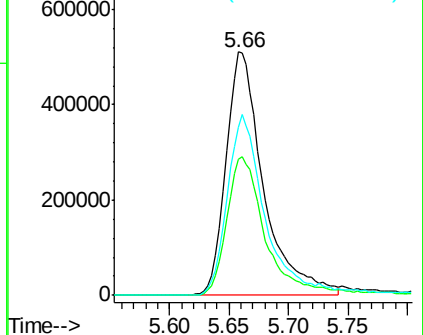
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Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): V

Ion 130.00 (129.70 to 130.70): V



#9

Propene

Concen: 0.298 ppbv m

RT: 3.02 min Scan# 71

Delta R.T. 0.01 min

Lab File: VL037330.D

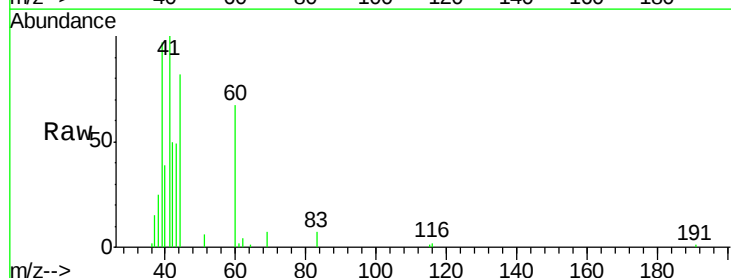
Acq: 5 Aug 2021 6:00

Tgt Ion: 41 Resp: 24528

Ion Ratio Lower Upper

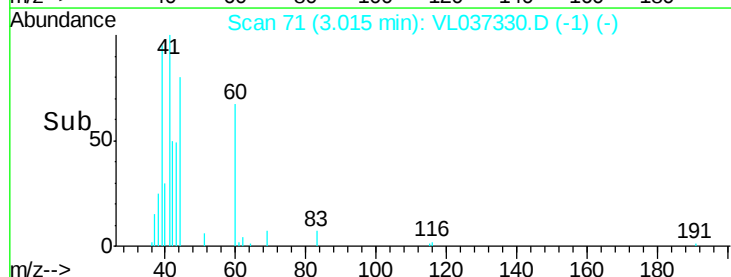
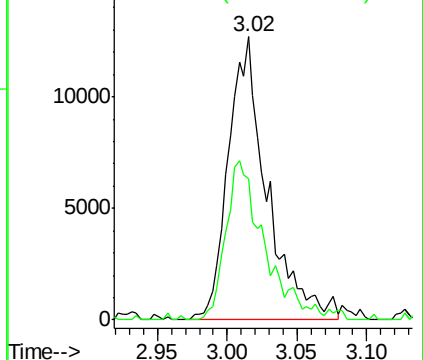
41 100

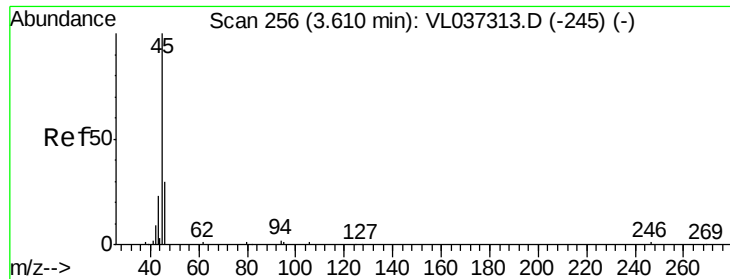
42 57.3 53.8 80.8



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0





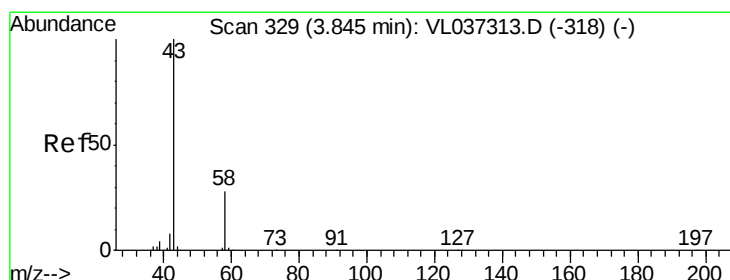
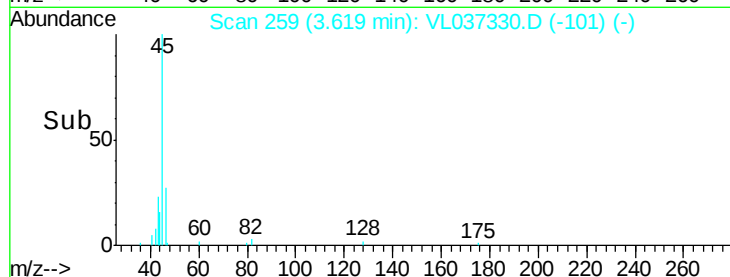
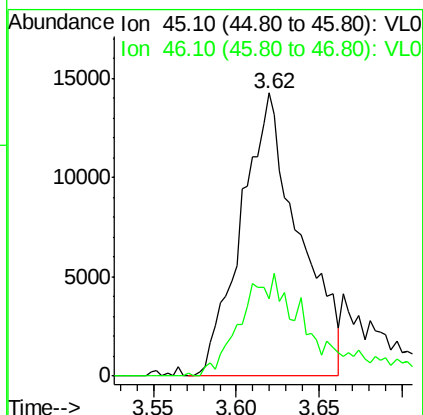
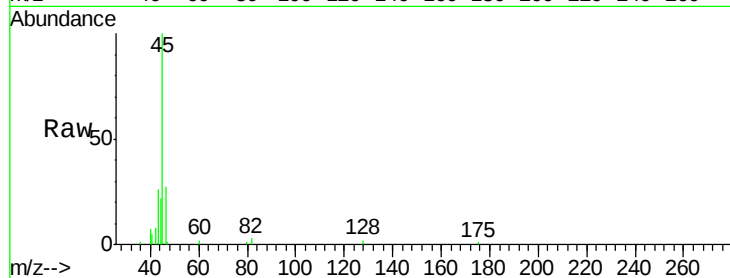
#13
Ethanol
Concen: 2.792 ppbv
RT: 3.62 min Scan# 259
Delta R.T. 0.01 min
Lab File: VL037330.D
Acq: 5 Aug 2021 6:00

Instrument :
MSVOA_L
ClientSampleId :
SVP-2DL

Tot Ion	45	Resp	34652
Ion Ratio	100	Lower	Upper
46	44.0	16.6	66.4

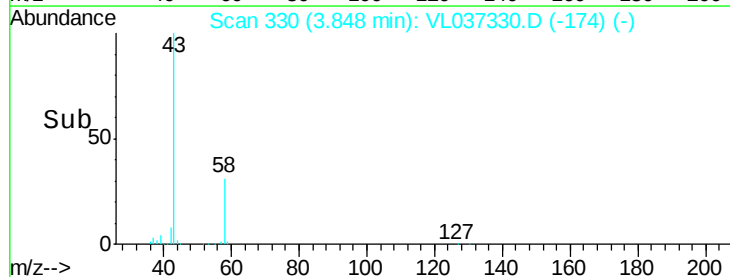
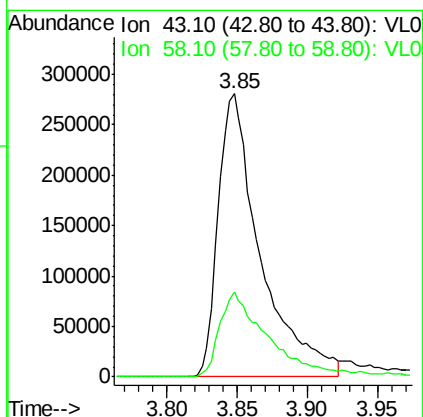
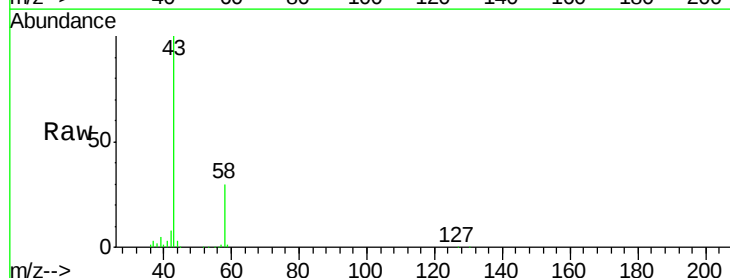
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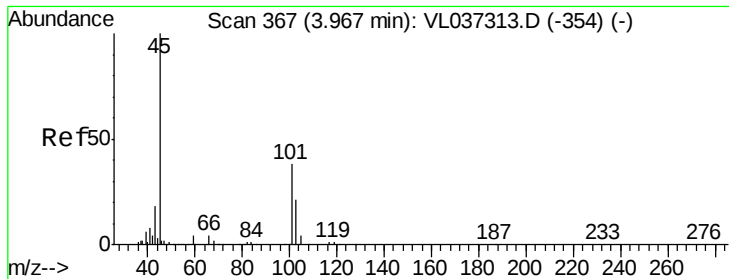
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#15
Acetone
Concen: 4.789 ppbv
RT: 3.85 min Scan# 330
Delta R.T. 0.00 min
Lab File: VL037330.D
Acq: 5 Aug 2021 6:00

Tgt Ion	43	Resp	583084
Ion Ratio	100	Lower	Upper
58	36.7	25.3	37.9





#19

Isopropyl Alcohol

Concen: 0.398 ppbv m

RT: 3.99 min Scan# 375

Delta R.T. 0.03 min

Lab File: VL037330.D

Acq: 5 Aug 2021 6:00

Instrument :

MSVOA_L

ClientSampleId :

SVP-2DL

Tot Ion: 45 Resp: 26817

Ion Ratio Lower Upper

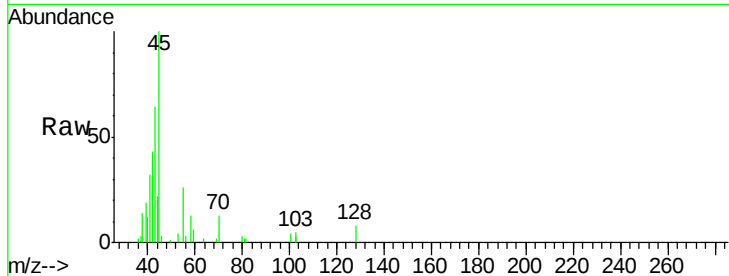
45 100

58 0.0 1.8 2.8#

Manual Integrations
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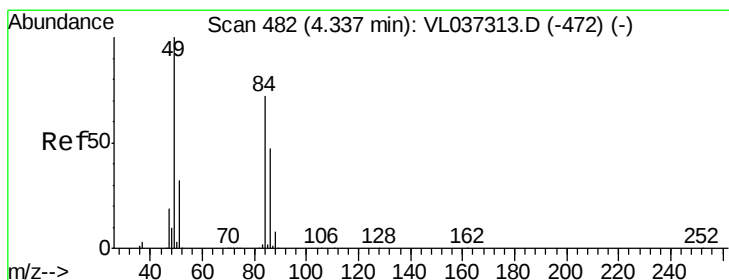
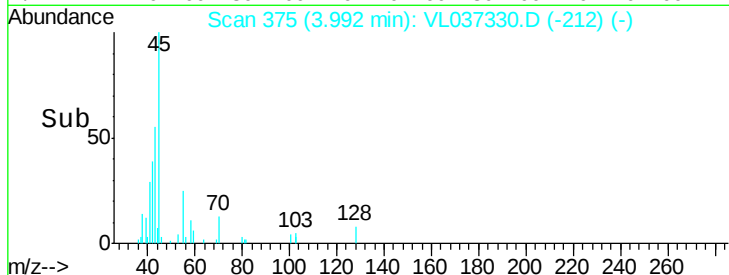
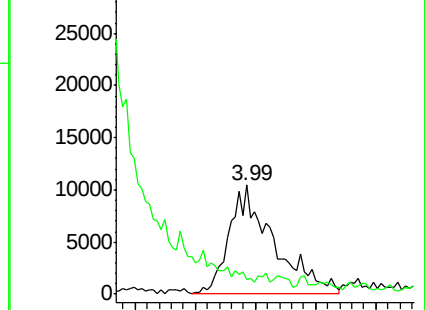
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Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 58.10 (57.80 to 58.80): VL0



#20

Methylene Chloride

Concen: 2.406 ppbv

RT: 4.34 min Scan# 484

Delta R.T. 0.01 min

Lab File: VL037330.D

Acq: 5 Aug 2021 6:00

Tgt Ion: 84 Resp: 242534

Ion Ratio Lower Upper

84 100

49 135.7 110.4 165.6

51 38.6 35.8 53.6

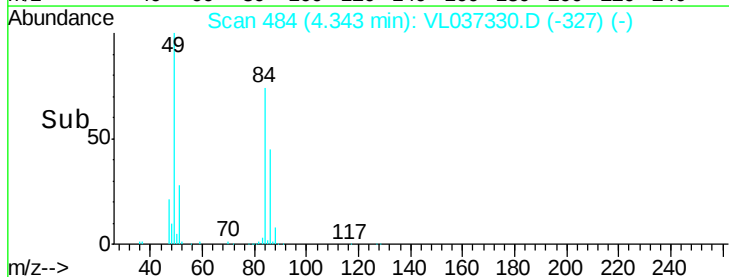
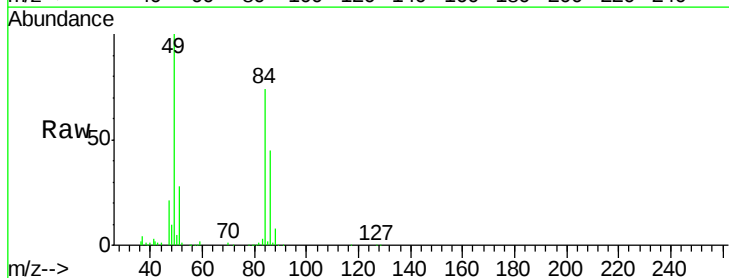
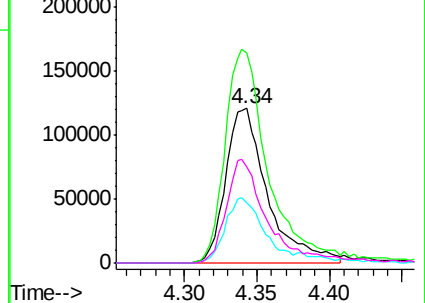
86 61.5 51.8 77.8

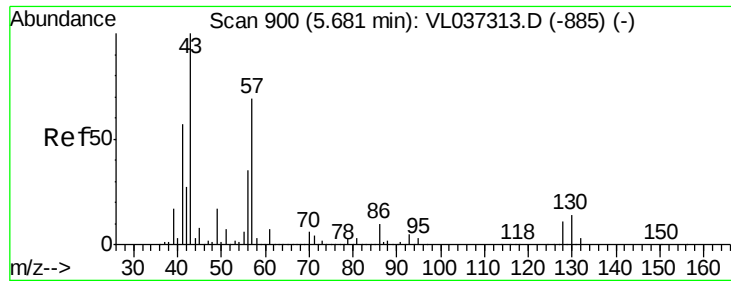
Abundance Ion 84.00 (83.70 to 84.70): VL0

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: 0.778 ppbv

RT: 5.68 min Scan# 901

Delta R.T. 0.00 min

Lab File: VL037330.D

Acq: 5 Aug 2021 6:00

Instrument :

MSVOA_L

ClientSampleId :

SVP-2DL

Tot Ion: 57 Resp: 137849
Ion Ratio Lower Upper

57 100

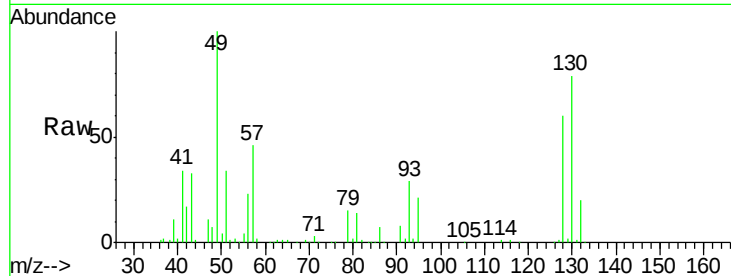
41 92.8 67.5 101.3

43 79.0 163.0 244.4#

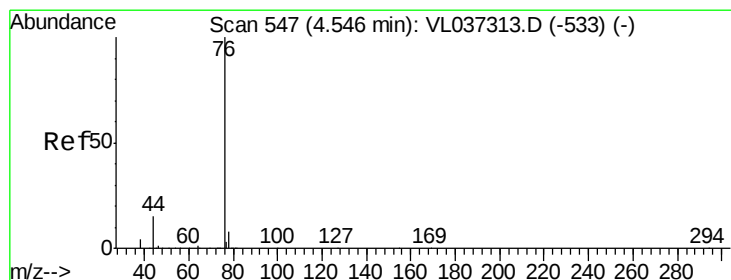
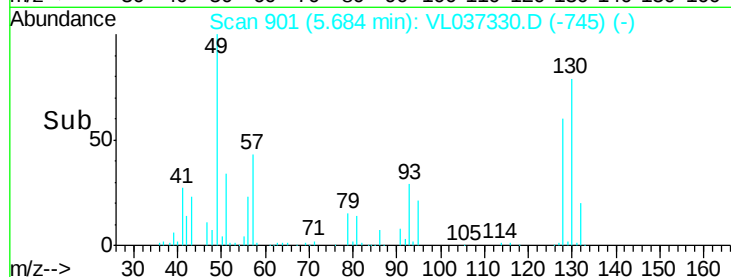
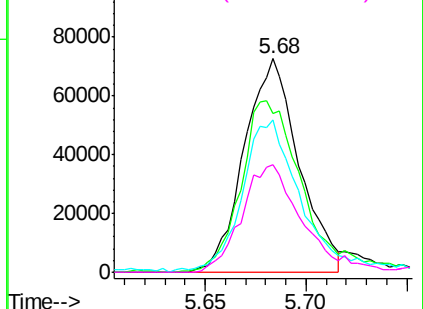
56 57.9 41.5 62.3

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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



#27

Carbon Disulfide

Concen: 0.282 ppbv m

RT: 4.55 min Scan# 548

Delta R.T. 0.00 min

Lab File: VL037330.D

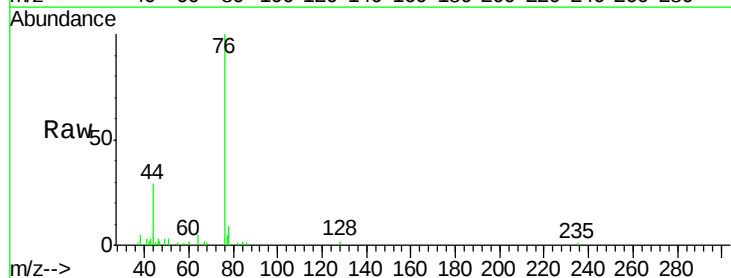
Acq: 5 Aug 2021 6:00

Tgt Ion: 76 Resp: 40658
Ion Ratio Lower Upper

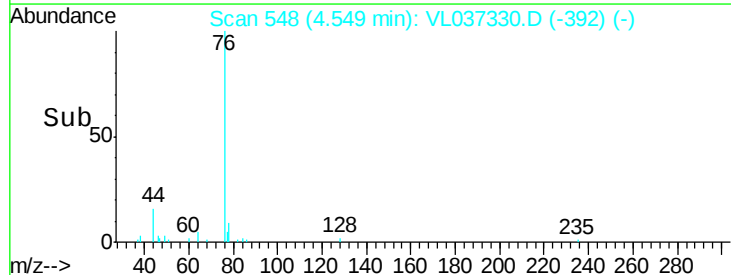
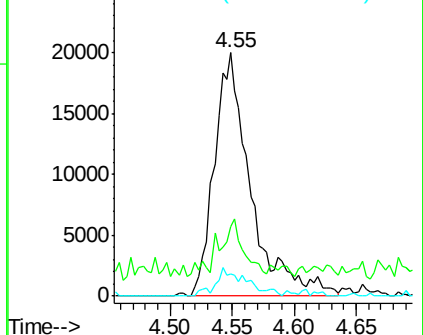
76 100

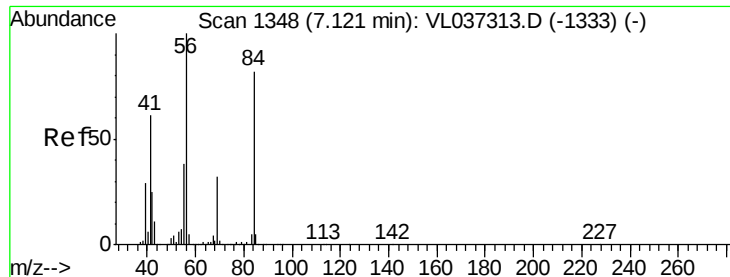
44 28.1 13.1 19.7#

78 10.2 8.0 12.0



Abundance Ion 76.00 (75.70 to 76.70): VL0
Ion 44.10 (43.80 to 44.80): VL0
Ion 78.00 (77.70 to 78.70): VL0





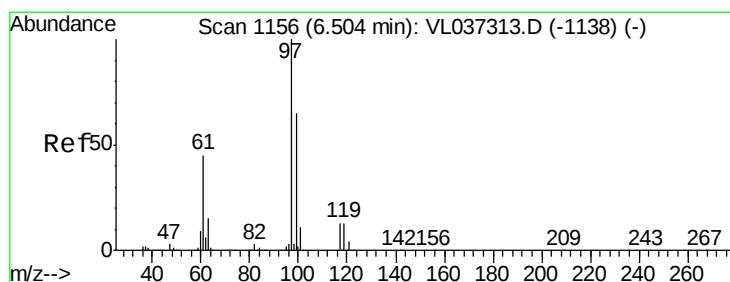
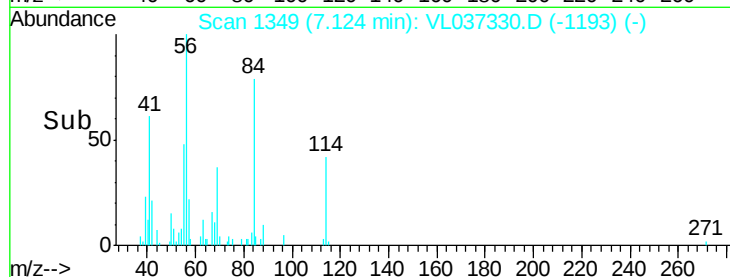
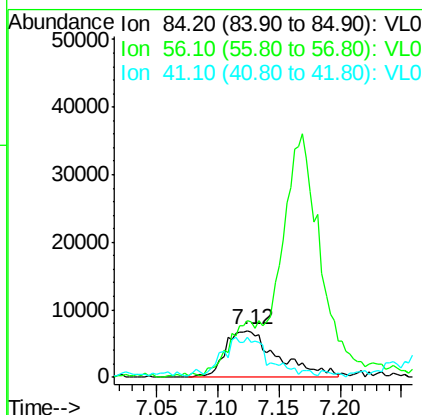
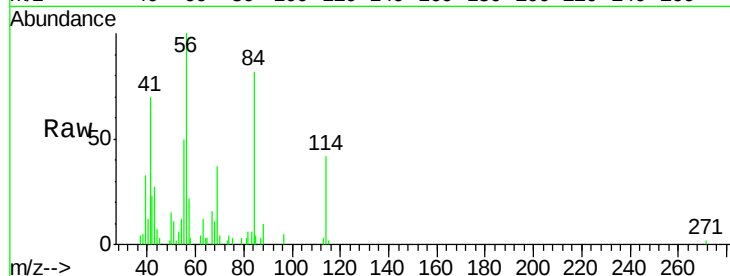
#30
Cyclohexane
Concen: 0.152 ppbv m
RT: 7.12 min Scan# 1349
Delta R.T. 0.00 min
Lab File: VL037330.D
Acq: 5 Aug 2021 6:00

Instrument :
MSVOA_L
ClientSampleId :
SVP-2DL

Tot Ion	Ratio	Lower	Upper
84	100		
56	0.0	105.2	157.8#
41	71.1	61.3	91.9

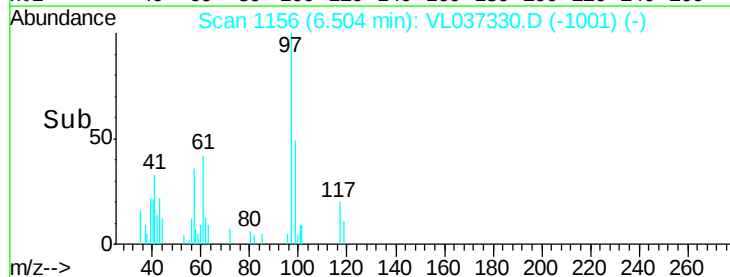
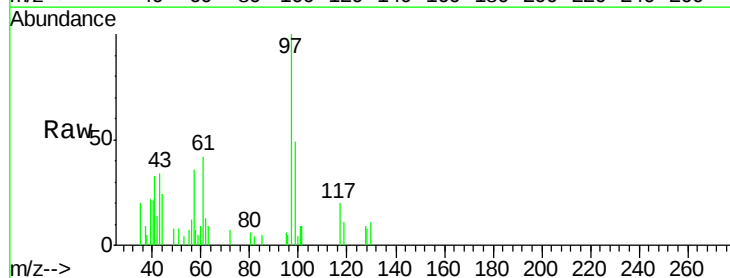
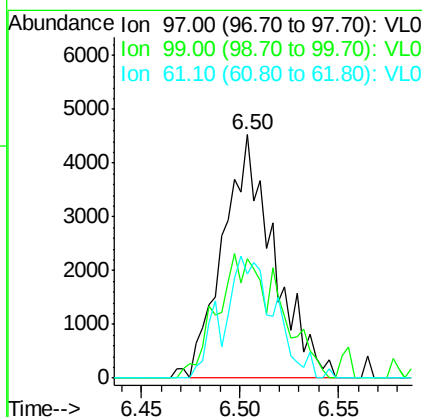
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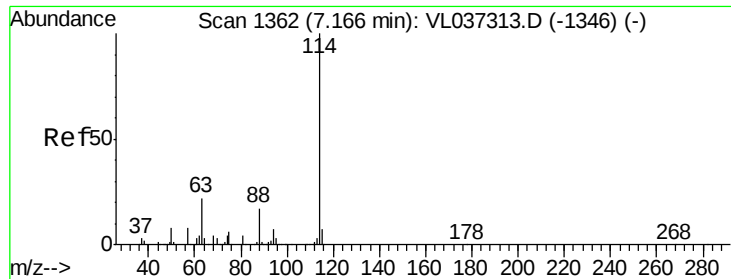
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#32
1,1,1-Trichloroethane
Concen: 0.038 ppbv m
RT: 6.50 min Scan# 1156
Delta R.T. -0.00 min
Lab File: VL037330.D
Acq: 5 Aug 2021 6:00

Tgt Ion	Ratio	Lower	Upper
97	100		
99	65.5	52.3	78.5
61	51.1	37.2	55.8





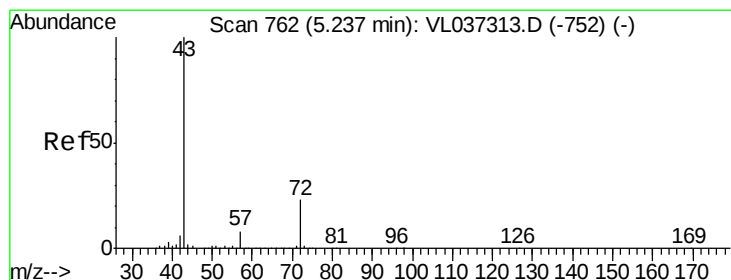
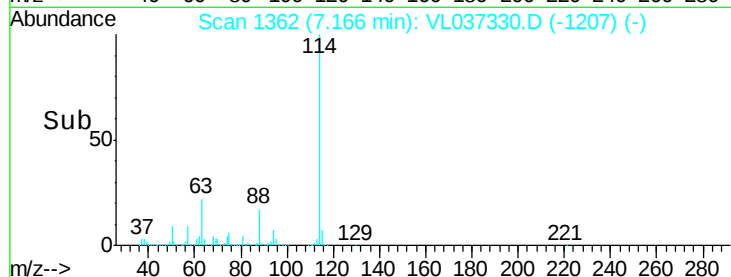
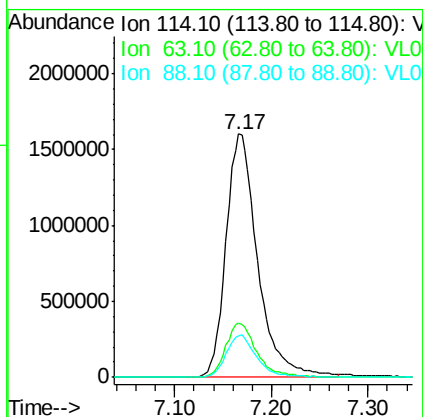
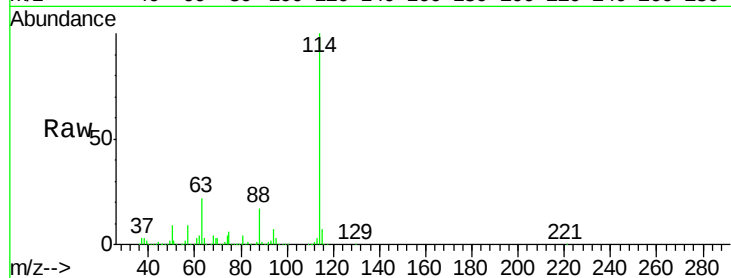
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.17 min Scan# 1362
 Delta R.T. -0.00 min
 Lab File: VL037330.D
 Acq: 5 Aug 2021 6:00

Instrument :
 MSVOA_L
 ClientSampleId :
 SVP-2DL

Tot Ion:114 Resp: 3649672
 Ion Ratio Lower Upper
 114 100
 63 22.3 18.1 27.1
 88 17.1 13.8 20.8

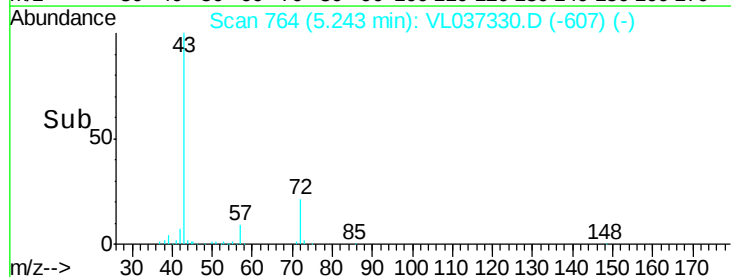
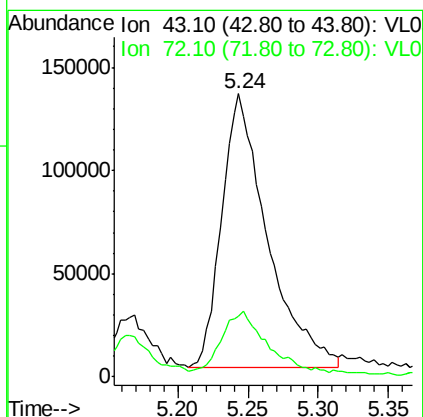
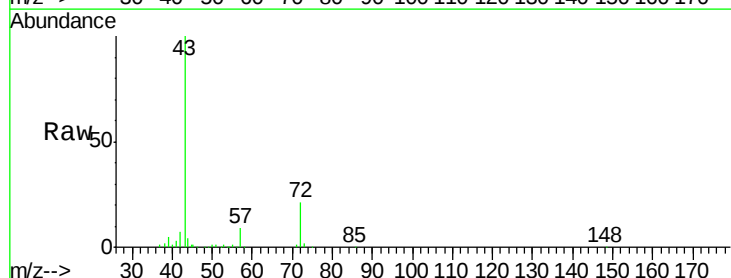
Manual Integrations
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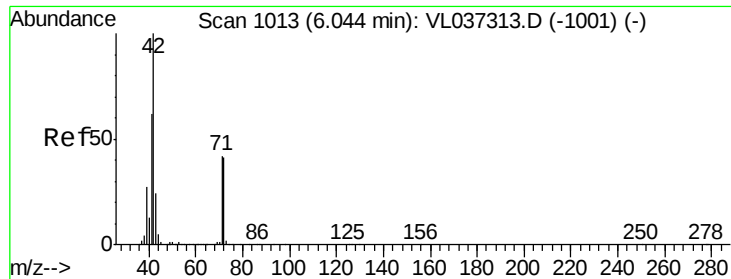
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#34
 2-Butanone
 Concen: 2.354 ppbv
 RT: 5.24 min Scan# 764
 Delta R.T. 0.01 min
 Lab File: VL037330.D
 Acq: 5 Aug 2021 6:00

Tgt Ion: 43 Resp: 298113
 Ion Ratio Lower Upper
 43 100
 72 27.5 20.3 30.5





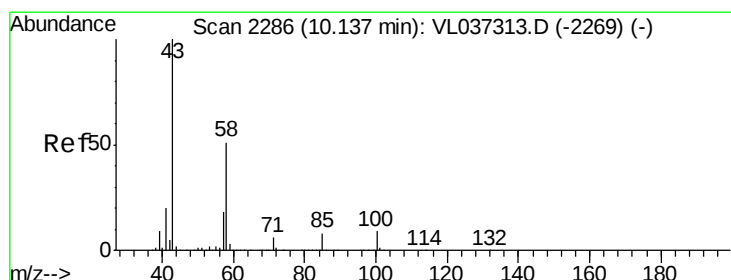
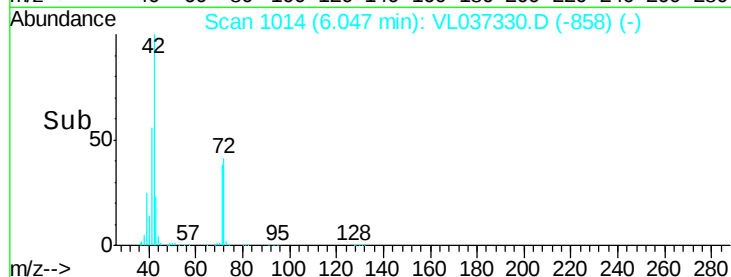
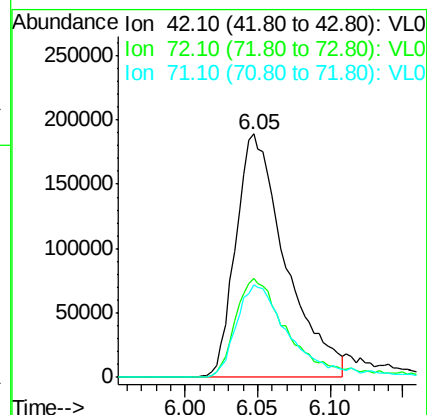
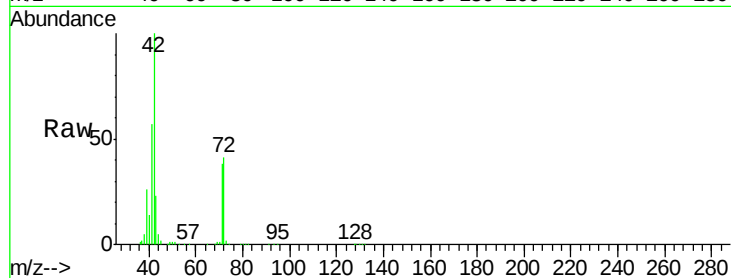
#41
Tetrahydrofuran
Concen: 6.412 ppbv
RT: 6.05 min Scan# 1014
Delta R.T. 0.00 min
Lab File: VL037330.D
Acq: 5 Aug 2021 6:00

Instrument :
MSVOA_L
ClientSampleId :
SVP-2DL

Tot Ion	Ratio	Lower	Upper
42	100		
72	44.9	33.6	50.4
71	41.9	33.0	49.4

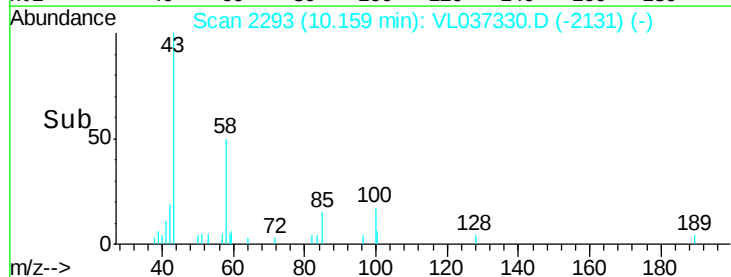
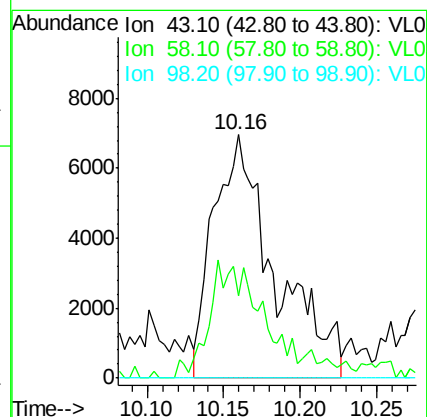
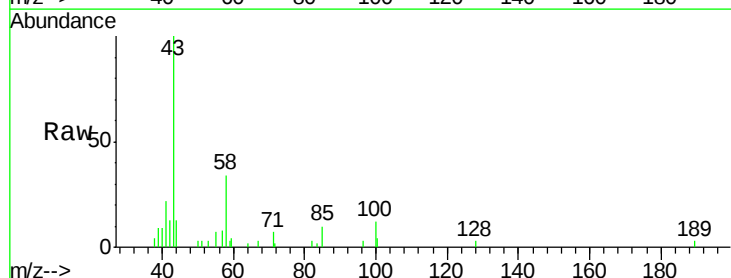
Manual Integrations
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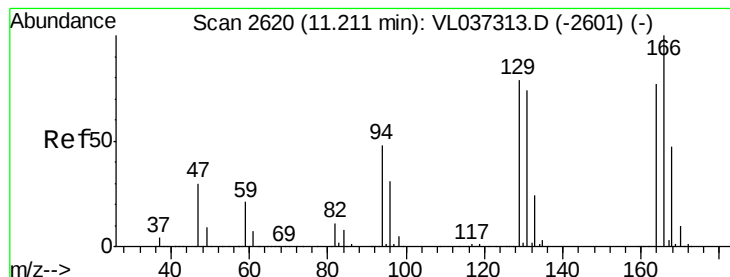
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#51
2-Hexanone
Concen: 0.221 ppbv m
RT: 10.16 min Scan# 2293
Delta R.T. 0.02 min
Lab File: VL037330.D
Acq: 5 Aug 2021 6:00

Tgt Ion	Ratio	Lower	Upper
43	100		
58	45.5	40.9	61.3
98	0.0	0.1	0.1#





#52

Tetrachloroethene

Concen: 0.700 ppbv

RT: 11.21 min Scan# 2620

Delta R.T. -0.00 min

Lab File: VL037330.D

Acq: 5 Aug 2021 6:00

Instrument :

MSVOA_L

ClientSampleId :

SVP-2DL

Tot Ion:164 Resp: 99012

Ion Ratio Lower Upper

164 100

166 132.9 103.4 155.2

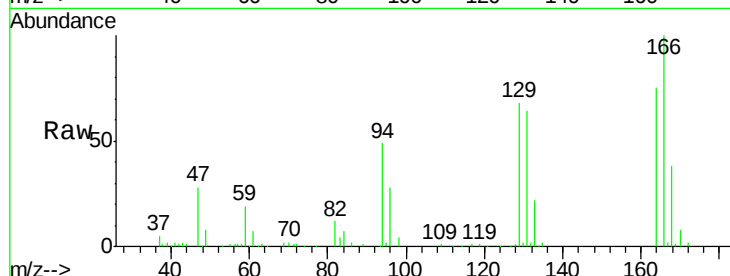
129 89.9 82.2 123.2

131 84.5 76.6 114.8

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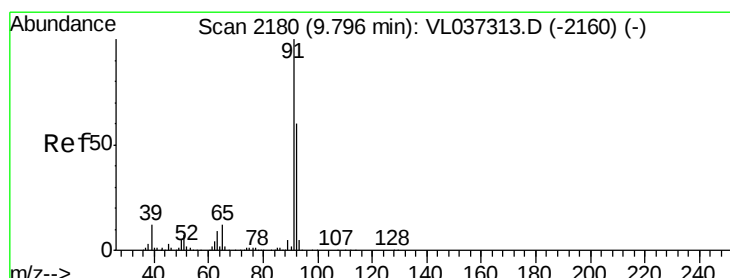
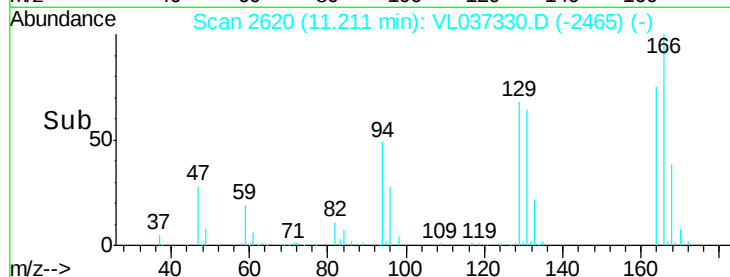
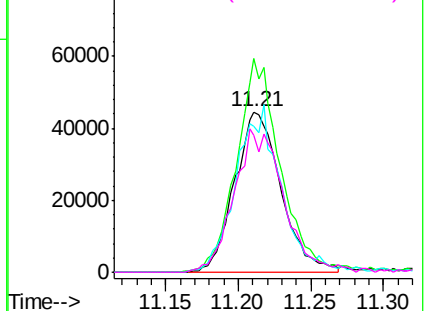


Abundance Ion 163.90 (163.60 to 164.60): V

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: 0.173 ppbv m

RT: 9.80 min Scan# 2180

Delta R.T. -0.00 min

Lab File: VL037330.D

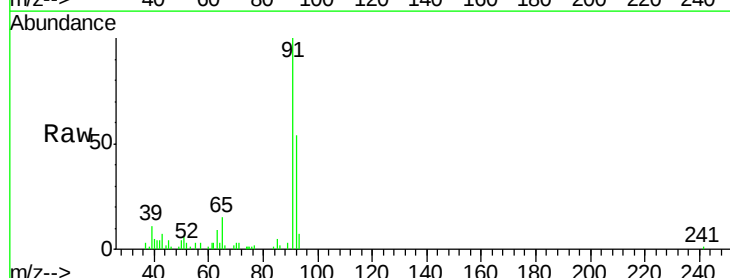
Acq: 5 Aug 2021 6:00

Tgt Ion: 91 Resp: 67146

Ion Ratio Lower Upper

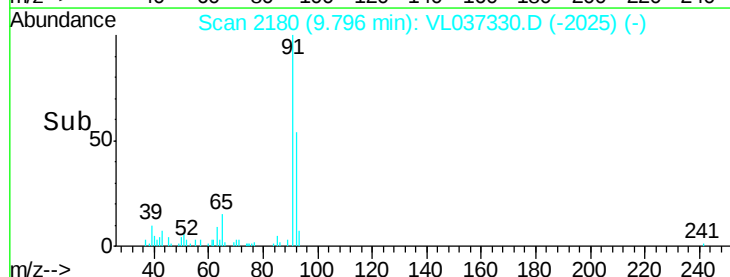
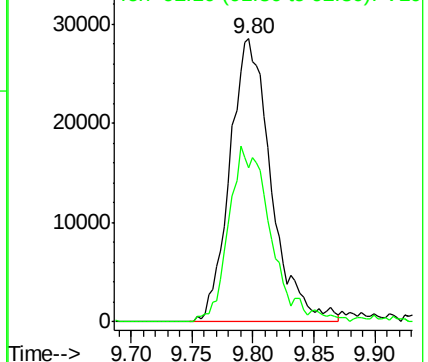
91 100

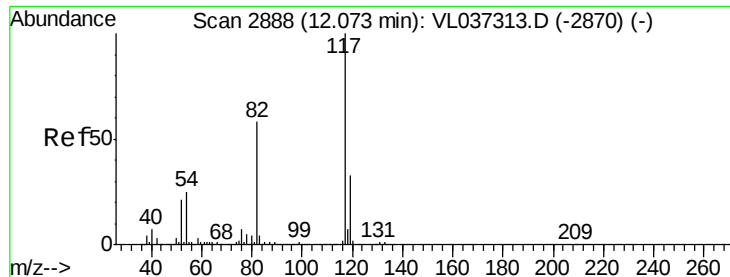
92 64.3 48.8 73.2



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0





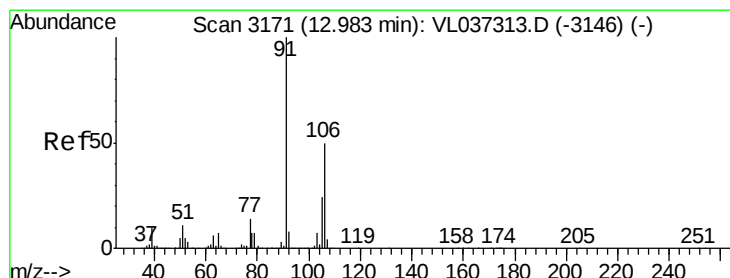
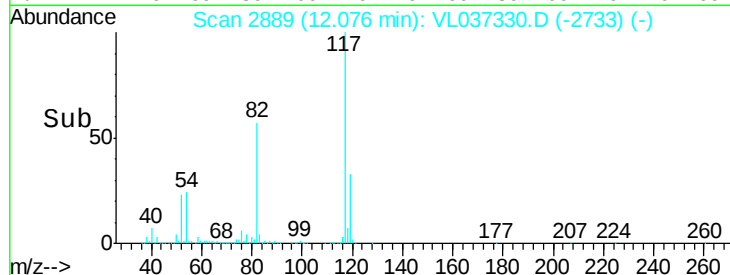
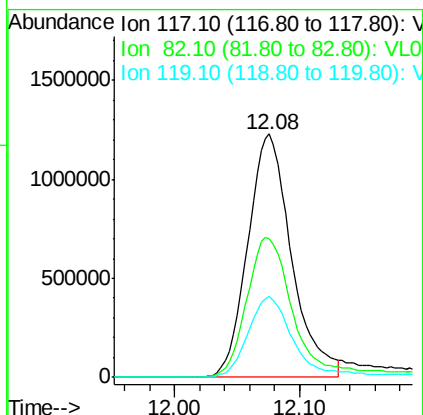
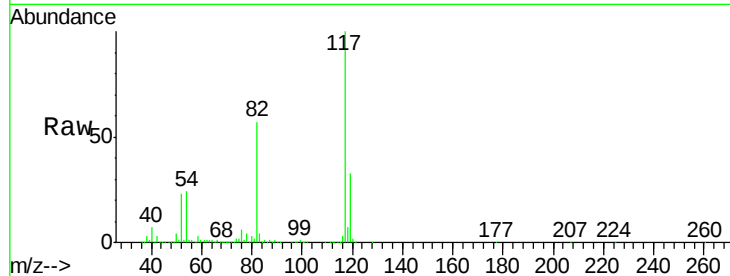
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.08 min Scan# 2889
Delta R.T. 0.00 min
Lab File: VL037330.D
Acq: 5 Aug 2021 6:00

Instrument :
MSVOA_L
ClientSampleId :
SVP-2DL

Tot Ion	Ratio	Lower	Upper
117	100		
82	67.4	50.3	75.5
119	36.3	48.2	72.2#

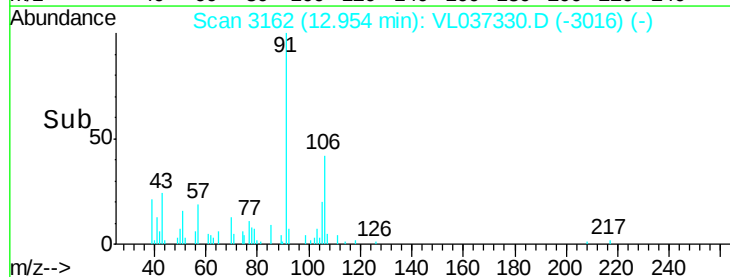
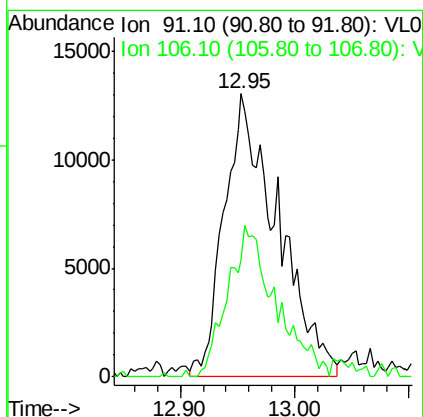
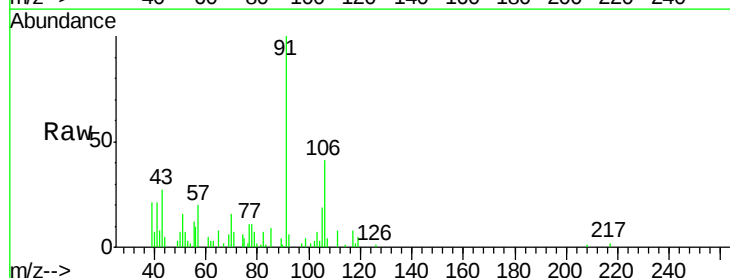
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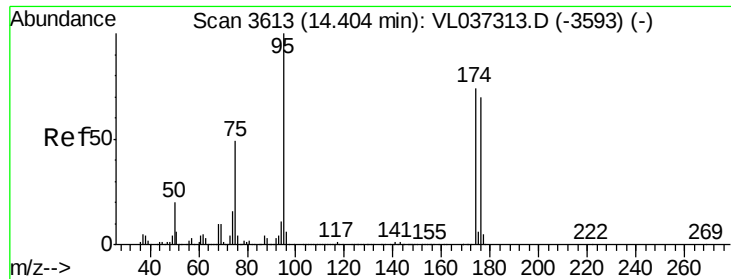
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#59
m/p-Xylene
Concen: 0.114 ppbv m
RT: 12.95 min Scan# 3162
Delta R.T. -0.03 min
Lab File: VL037330.D
Acq: 5 Aug 2021 6:00

Tgt Ion	Ratio	Lower	Upper
91	100		
106	0.0	37.8	56.8#





#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.623 ppbv
 RT: 14.40 min Scan# 3613
 Delta R.T. -0.00 min
 Lab File: VL037330.D
 Acq: 5 Aug 2021 6:00

Instrument :
 MSVOA_L
 ClientSampleId :
 SVP-2DL

Tot Ion	Ratio	Lower	Upper
95	100		
174	82.0	66.9	100.3
175	5.9	5.1	7.7

Manual Integrations
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