

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL061721\
 Data File : VL037212.D
 Acq On : 17 Jun 2021 21:58
 Operator : SY/AP
 Sample : M2742-04DL 10X
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SV2DL

Manual Integrations
 APPROVED

MMDadoda
 6/21/2021 12:58:36 PM

Quant Time: Jun 18 03:06:27 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL061621AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed Jun 1
 QLast Update : Wed Jun 16 14:06:32 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.66	49	1456525	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.17	114	4228498	10.00	ppbv	-0.01
55) Chlorobenzene-d5	12.08	117	3623394	10.00	ppbv	-0.01

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.41	95	2796720	10.19	ppbv	-0.01
Spiked Amount	10.000	Range	65 - 135	Recovery	=	101.90%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
9) Propene	3.01	41	27194	0.300	ppbv	94
13) Ethanol	3.63	45	45655m	3.259	ppbv	
15) Acetone	3.86	43	517128	3.148	ppbv #	86
17) tert-Butyl alcohol	4.33	59	23023m	0.152	ppbv	
20) Methylene Chloride	4.34	84	126672	1.288	ppbv	87
26) Hexane	5.68	57	331251	1.843	ppbv #	47
27) Carbon Disulfide	4.55	76	63723m	0.362	ppbv	
29) Chloroform	5.75	83	28928m	0.104	ppbv	
34) 2-Butanone	5.27	43	40793	0.248	ppbv #	61
38) Trichloroethene	7.84	130	5831m	0.036	ppbv	
52) Tetrachloroethene	11.22	164	67005	0.422	ppbv	96
53) Toluene	9.80	91	45395m	0.111	ppbv	
59) m/p-Xylene	12.97	91	66350m	0.157	ppbv	
70) n-Butylbenzene	18.55	91	66158m	0.125	ppbv	
74) 1,2,4-Trimethylbenzene	16.76	105	80828m	0.177	ppbv	

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

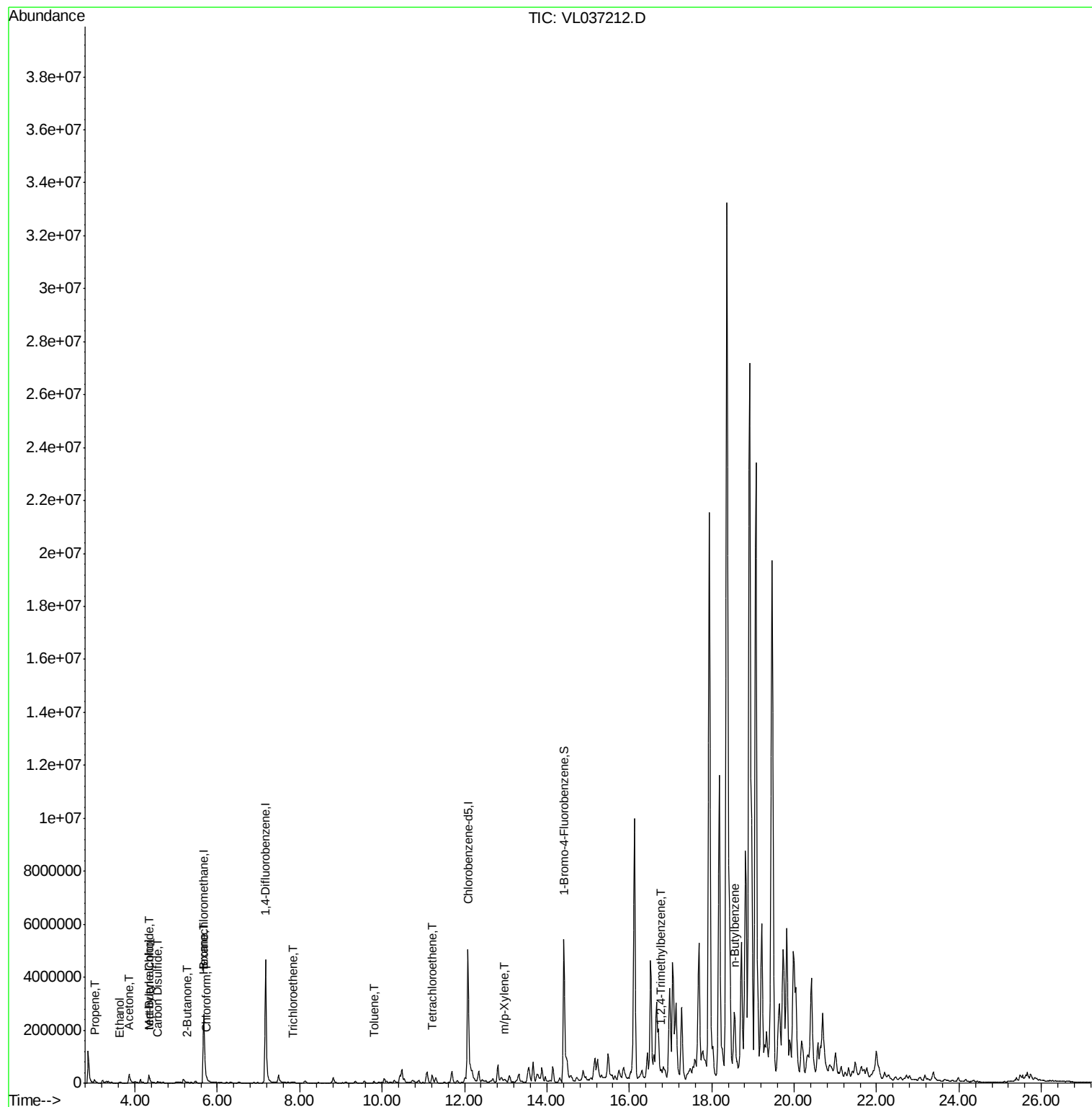
Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL061721\
Data File : VL037212.D
Acq On : 17 Jun 2021 21:58
Operator : SY/AP
Sample : M2742-04DL 10X
Misc : 400mL/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

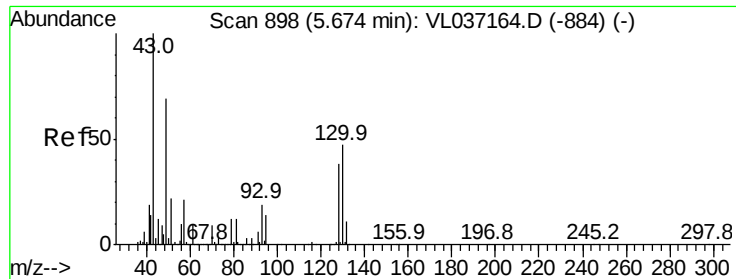
Instrument :
MSVOA_L
ClientSampleId :
SV2DL

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6/21/2021 12:58:36 PM

Quant Time: Jun 18 03:06:27 2021
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL061621AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed Jun
QLast Update : Wed Jun 16 14:06:32 2021
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.66 min Scan# 895

Delta R.T. -0.01 min

Lab File: VL037212.D

Acq: 17 Jun 2021 21:58

Instrument :

MSVOA_L

ClientSampleId :

SV2DL

Tot Ion: 49 Resp: 1456525

Ion Ratio Lower Upper

49 100

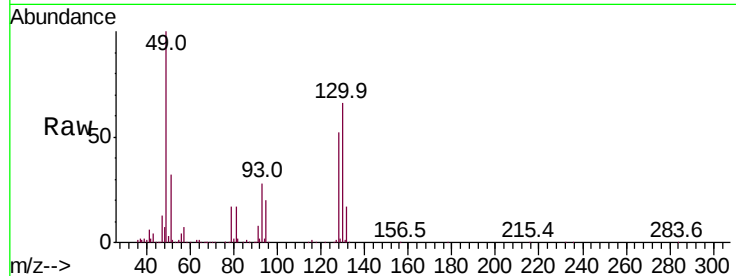
128 55.1 29.3 88.0

130 69.7 35.9 107.8

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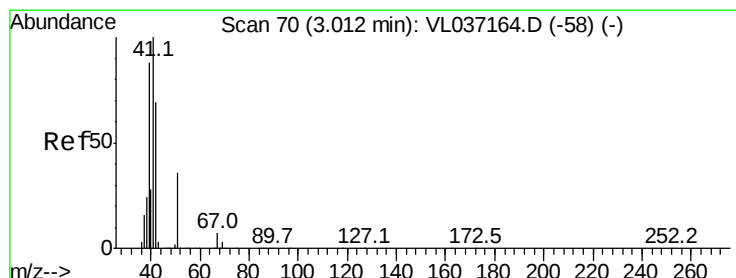
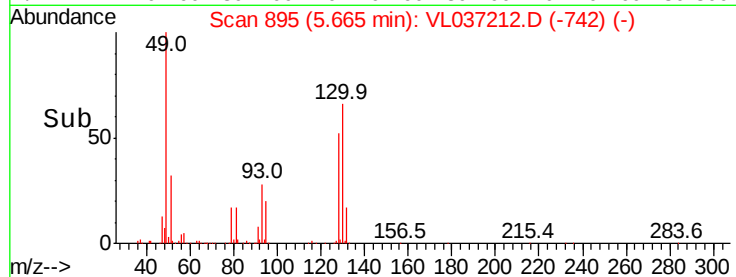
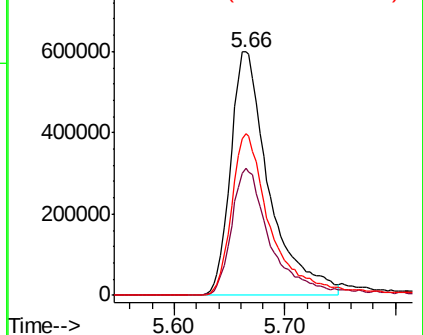
6/21/2021 12:58:36 PM



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: 0.300 ppbv

RT: 3.01 min Scan# 70

Delta R.T. 0.00 min

Lab File: VL037212.D

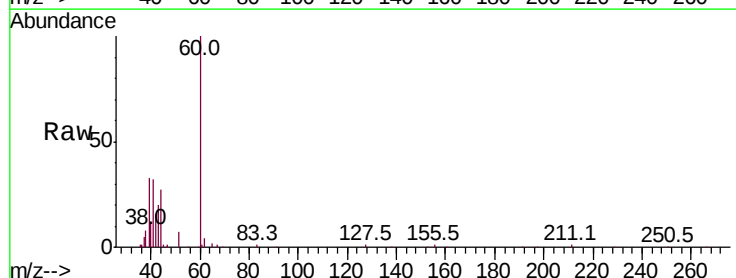
Acq: 17 Jun 2021 21:58

Tgt Ion: 41 Resp: 27194

Ion Ratio Lower Upper

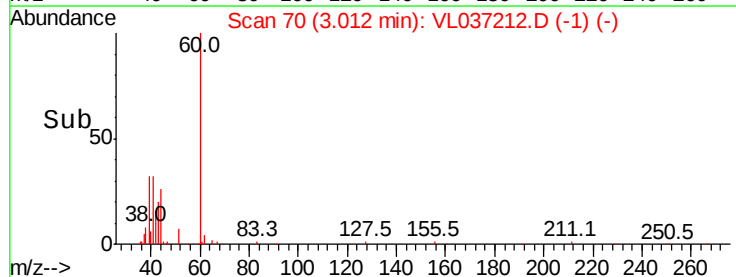
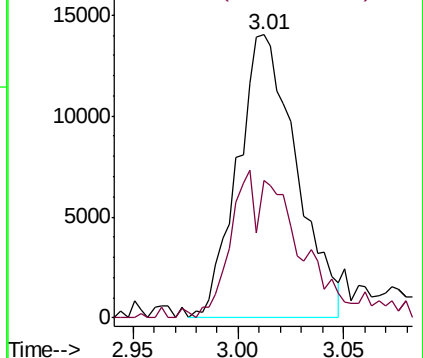
41 100

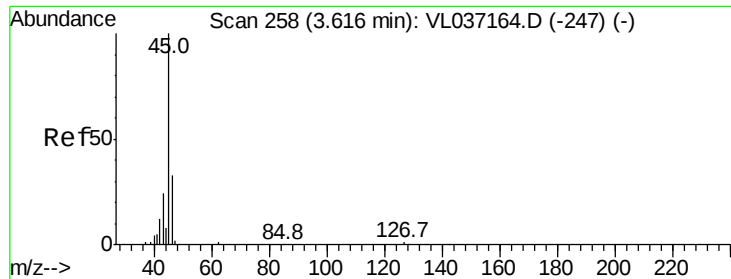
42 63.6 54.5 81.7



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0





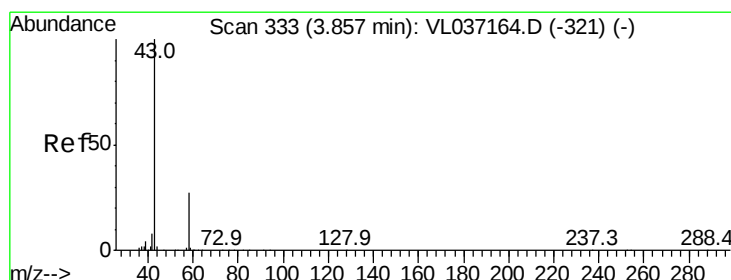
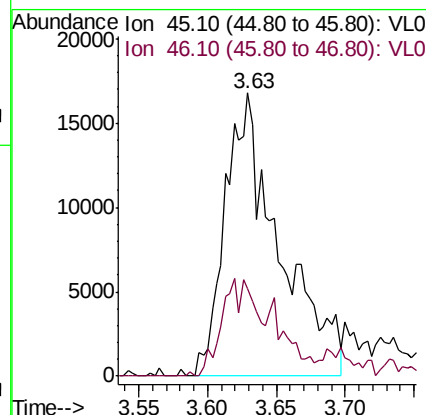
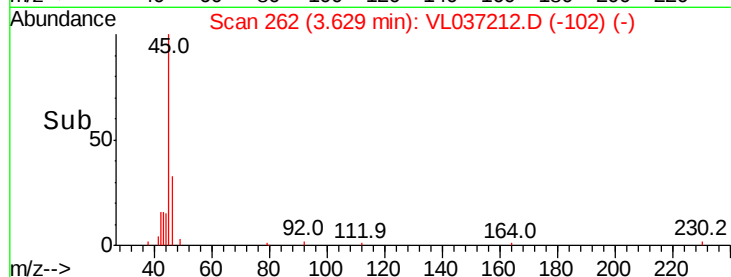
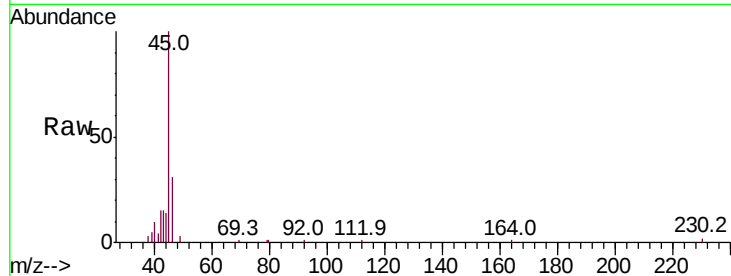
#13
Ethanol
Concen: 3.259 ppbv m
RT: 3.63 min Scan# 262
Delta R.T. 0.01 min
Lab File: VL037212.D
Acq: 17 Jun 2021 21:58

Instrument :
MSVOA_L
ClientSampleId :
SV2DL

Tot Ion	45	46	Ratio	Lower	Upper
45655	100	32.7		34.2	137.0#

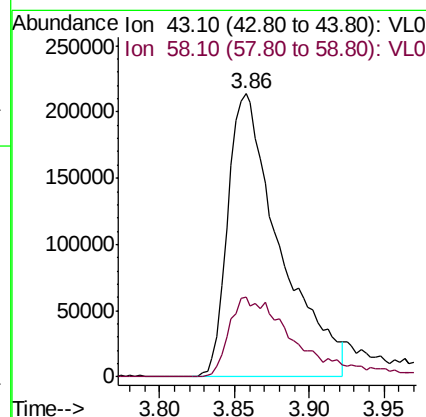
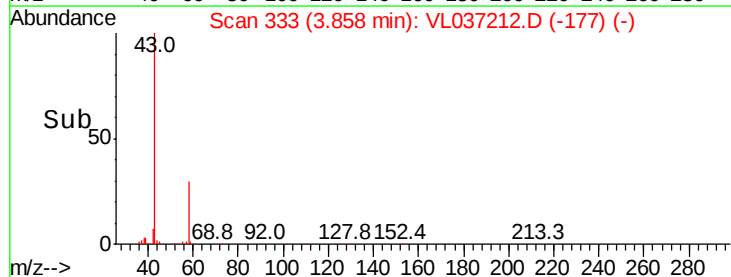
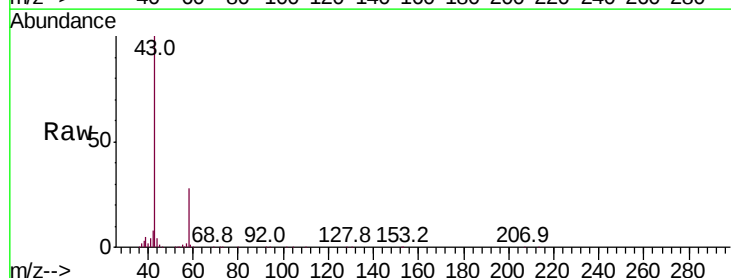
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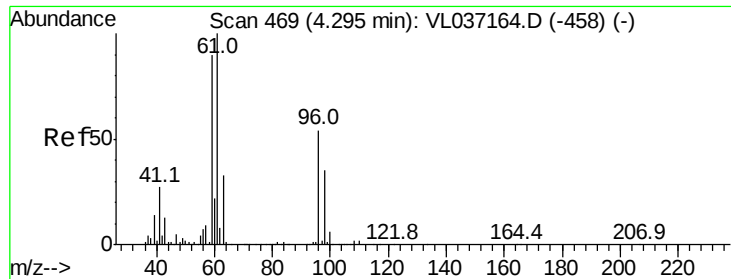
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#15
Acetone
Concen: 3.148 ppbv
RT: 3.86 min Scan# 333
Delta R.T. 0.00 min
Lab File: VL037212.D
Acq: 17 Jun 2021 21:58

Tgt Ion	43	58	Ratio	Lower	Upper
517128	100	37.1		23.7	35.5#





#17

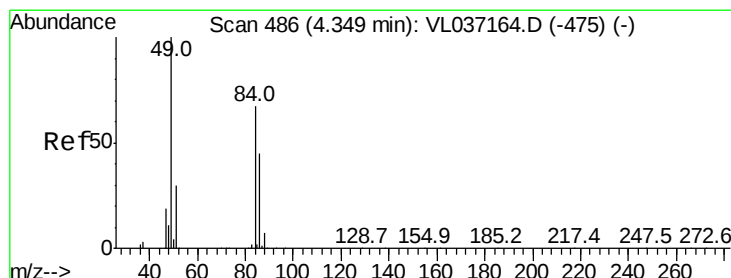
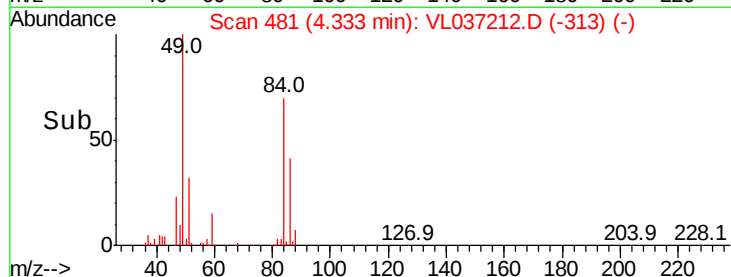
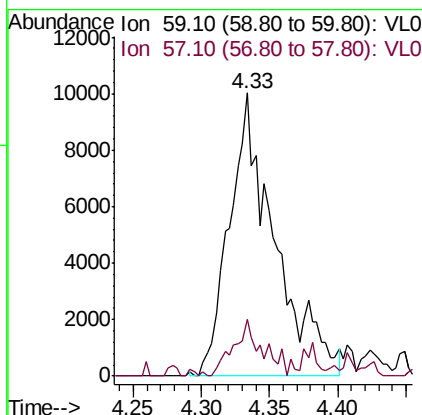
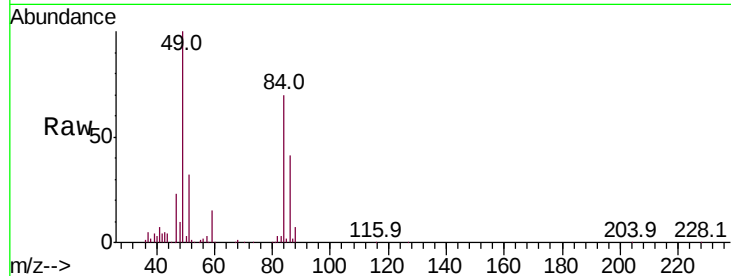
tert-Butyl alcohol
Concen: 0.152 ppbv
RT: 4.33 min Scan# 481
Delta R.T. 0.04 min
Lab File: VL037212.D
Acq: 17 Jun 2021 21:58

Instrument :
MSVOA_L
ClientSampled :
SV2DL

Tot Ion: 59 Resp: 23023
Ion Ratio Lower Upper
59 100
57 12.0 8.8 13.2

Manual Integrations
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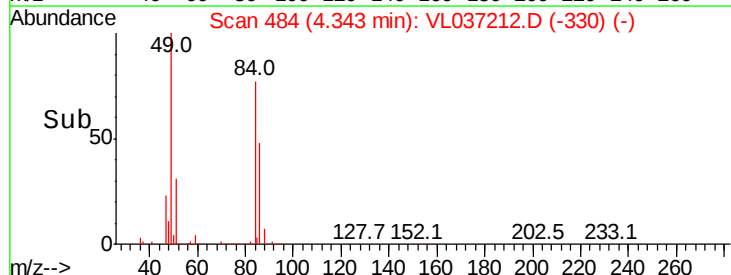
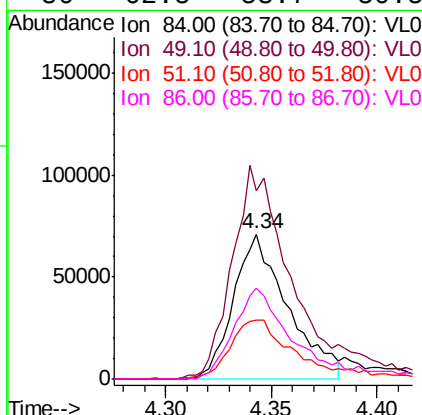
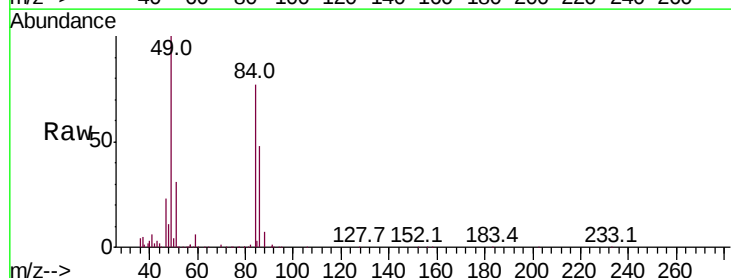
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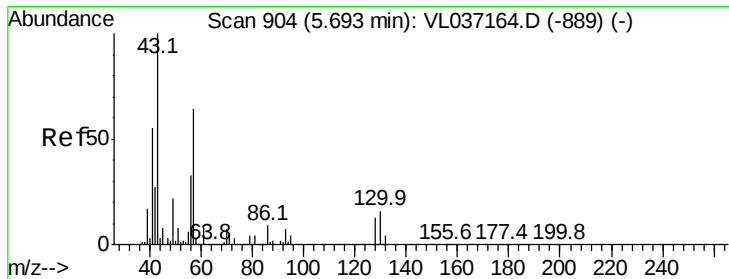


#20

Methylene Chloride
Concen: 1.288 ppbv
RT: 4.34 min Scan# 484
Delta R.T. -0.01 min
Lab File: VL037212.D
Acq: 17 Jun 2021 21:58

Tgt Ion: 84 Resp: 126672
Ion Ratio Lower Upper
84 100
49 127.3 119.7 179.5
51 39.8 36.1 54.1
86 62.5 53.7 80.5





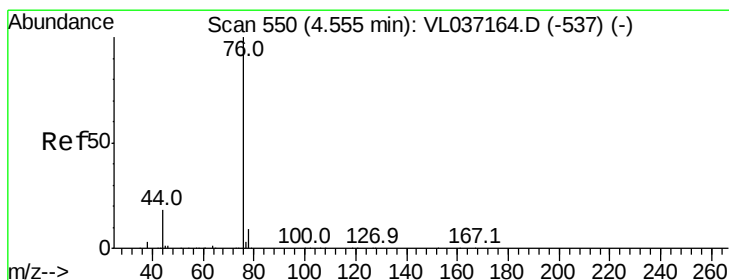
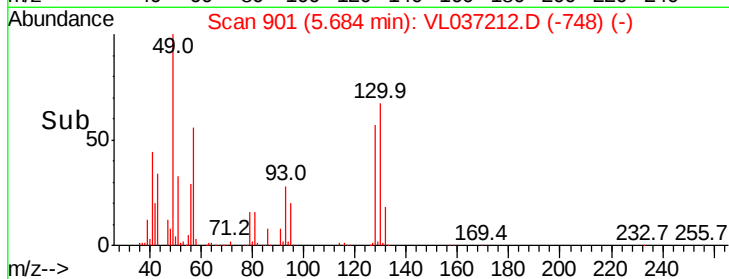
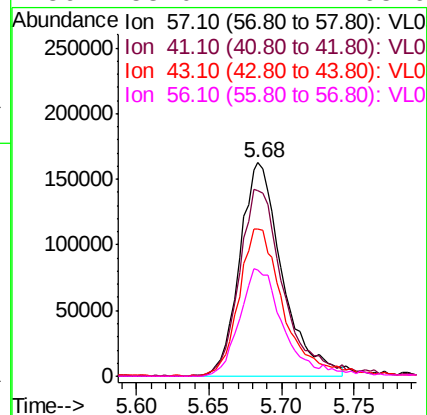
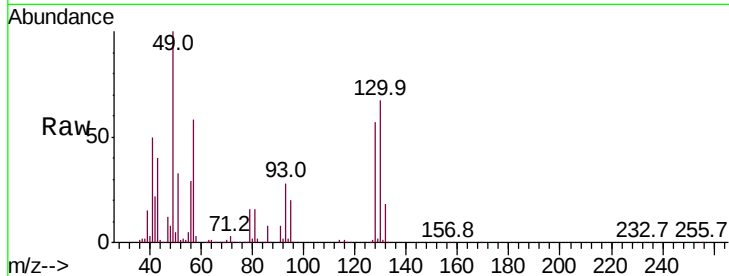
#26
Hexane
Concen: 1.843 ppbv
RT: 5.68 min Scan# 901
Delta R.T. -0.01 min
Lab File: VL037212.D
Acq: 17 Jun 2021 21:58

Instrument :
MSVOA_L
ClientSampleID :
SV2DL

Tot Ion	Ratio	Lower	Upper
57	100		
41	93.0	73.5	110.3
43	75.0	170.7	256.1#
56	53.0	42.4	63.6

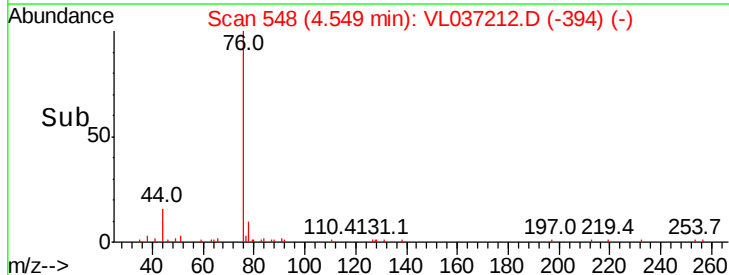
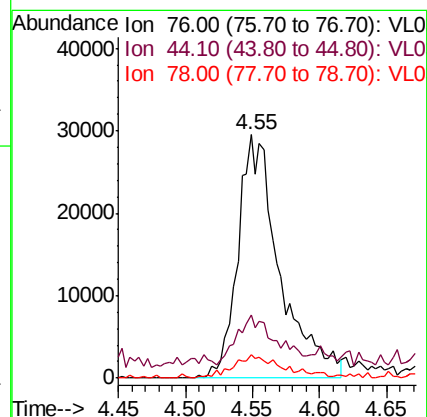
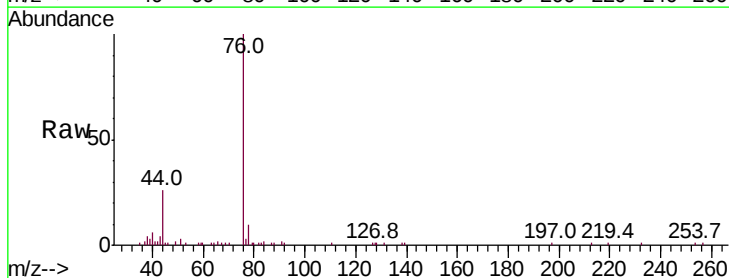
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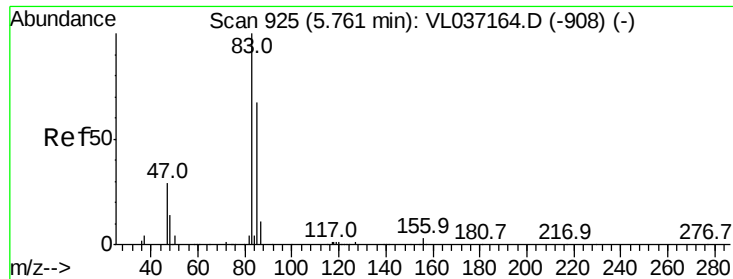
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#27
Carbon Disulfide
Concen: 0.362 ppbv m
RT: 4.55 min Scan# 548
Delta R.T. -0.01 min
Lab File: VL037212.D
Acq: 17 Jun 2021 21:58

Tgt Ion	Ratio	Lower	Upper
76	100		
44	27.8	15.4	23.2#
78	12.0	8.0	12.0





#29

Chloroform

Concen: 0.104 ppbv m

RT: 5.75 min Scan# 921

Delta R.T. -0.01 min

Lab File: VL037212.D

Acq: 17 Jun 2021 21:58

Instrument :

MSVOA_L

ClientSampled :

SV2DL

Tot Ion: 83 Resp: 28928

Ion Ratio Lower Upper

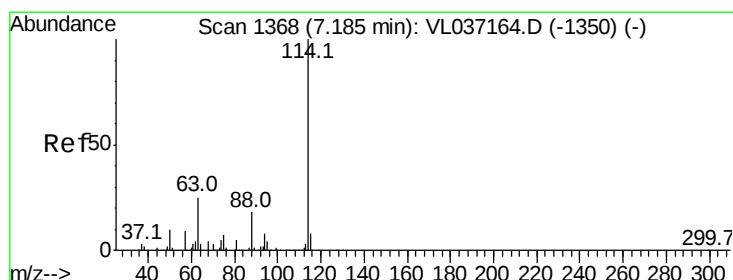
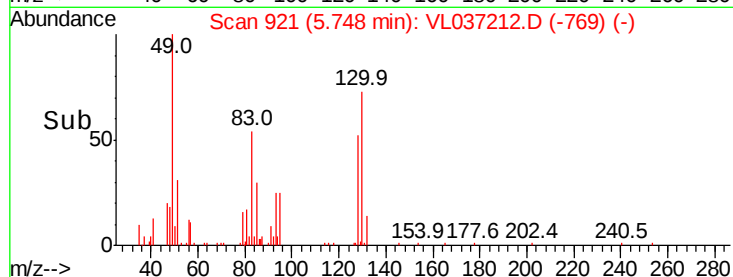
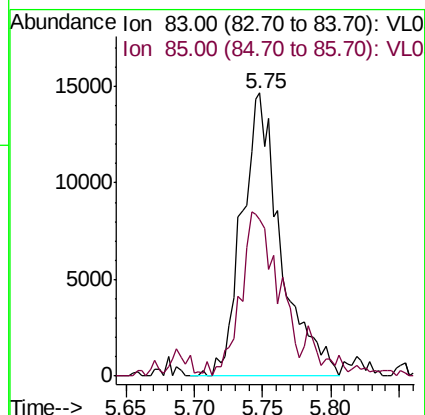
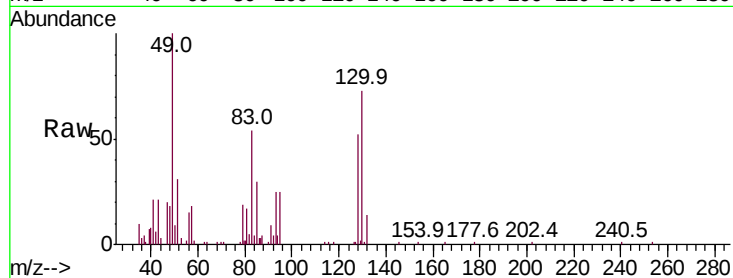
83 100

85 55.4 53.6 80.4

Manual Integrations
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#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.17 min Scan# 1364

Delta R.T. -0.01 min

Lab File: VL037212.D

Acq: 17 Jun 2021 21:58

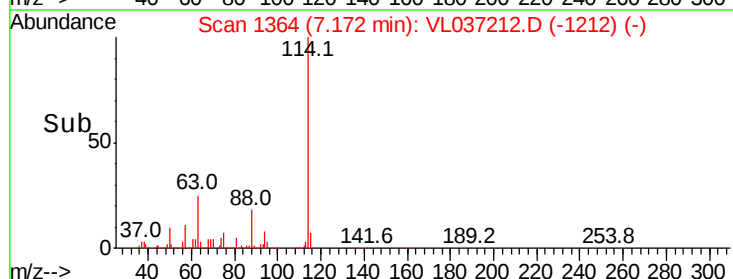
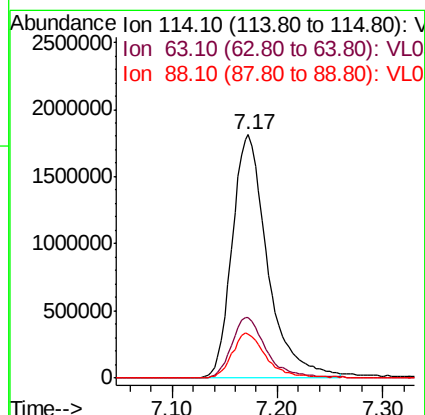
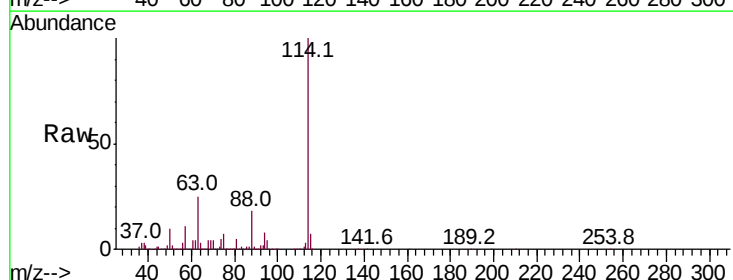
Tgt Ion: 114 Resp: 4228498

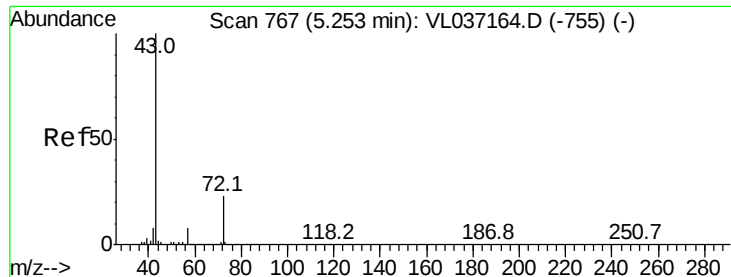
Ion Ratio Lower Upper

114 100

63 25.0 19.6 29.4

88 18.2 14.2 21.2





#34

2-Butanone

Concen: 0.248 ppbv

RT: 5.27 min Scan# 771

Delta R.T. 0.01 min

Lab File: VL037212.D

Acq: 17 Jun 2021 21:58

Instrument :

MSVOA_L

ClientSampled :

SV2DL

Tot Ion: 43 Resp: 40793

Ion Ratio Lower Upper

43 100

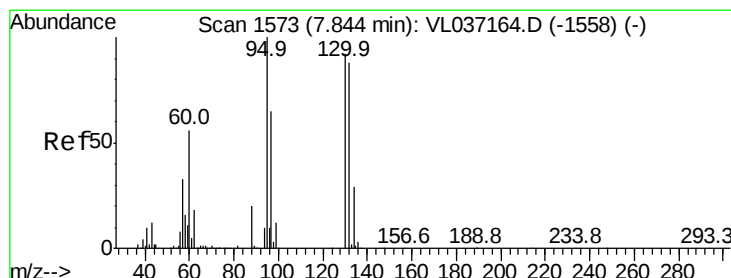
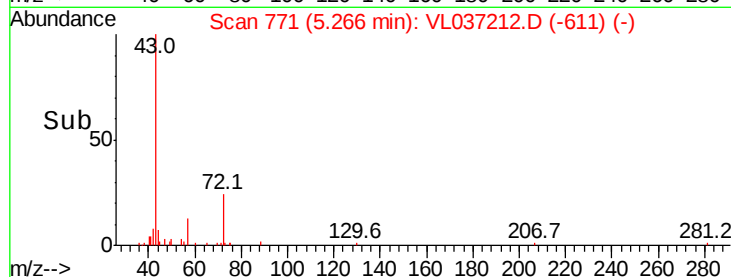
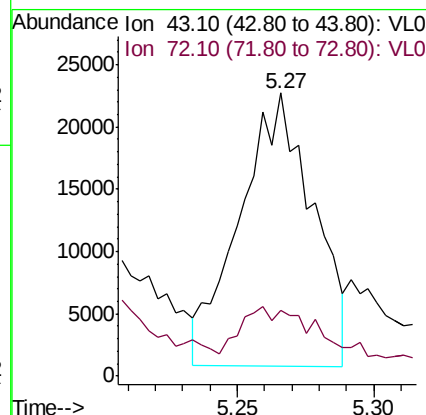
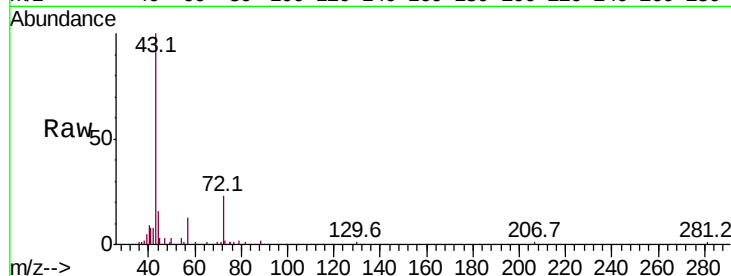
72 42.8 18.9 28.3#

Manual Integrations

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#38

Trichloroethene

Concen: 0.036 ppbv m

RT: 7.84 min Scan# 1571

Delta R.T. -0.01 min

Lab File: VL037212.D

Acq: 17 Jun 2021 21:58

Tgt Ion:130 Resp: 5831

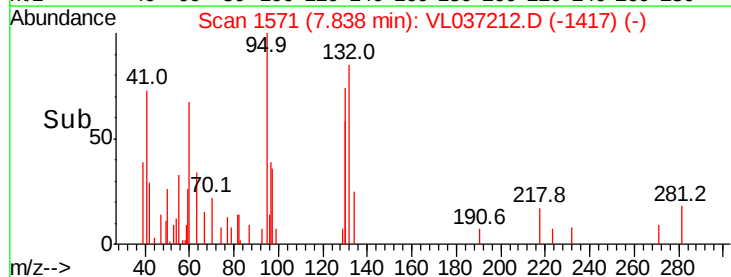
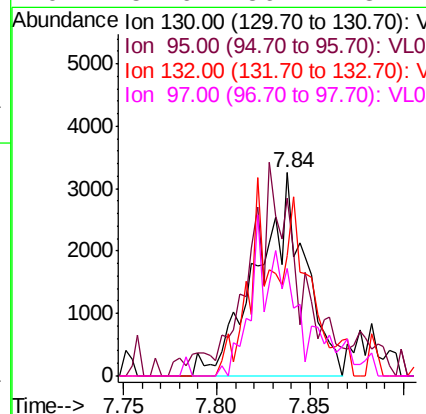
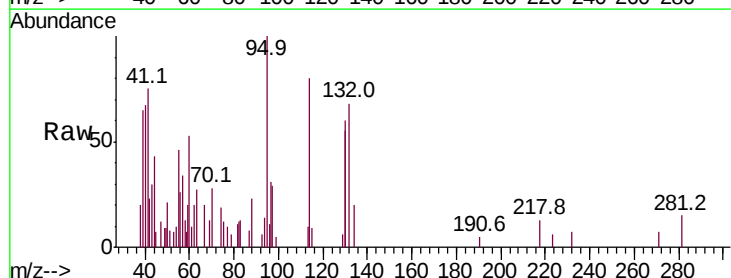
Ion Ratio Lower Upper

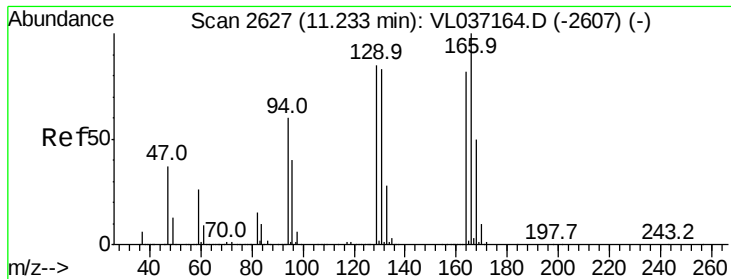
130 100

95 168.0 86.6 129.8#

132 113.9 76.6 114.8

97 52.6 56.1 84.1#





#52

Tetrachloroethene

Concen: 0.422 ppbv

RT: 11.22 min Scan# 2622

Delta R.T. -0.02 min

Lab File: VL037212.D

Acq: 17 Jun 2021 21:58

Instrument :

MSVOA_L

ClientSampled :

SV2DL

Tot Ion:164 Resp: 67005

Ion Ratio Lower Upper

164 100

166 126.0 97.6 146.4

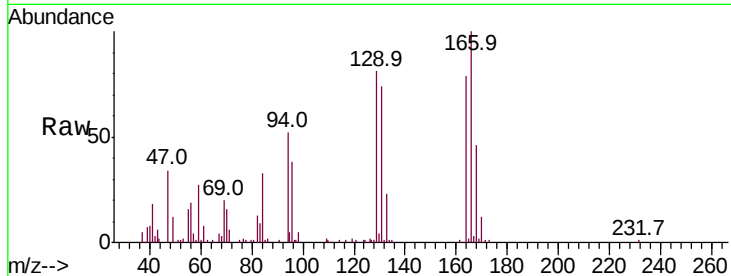
129 102.5 82.9 124.3

131 92.9 80.6 120.8

Manual Integrations
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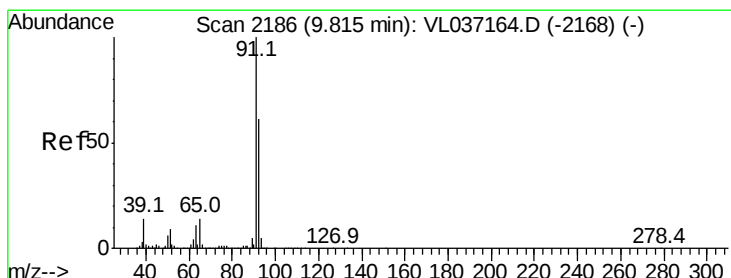
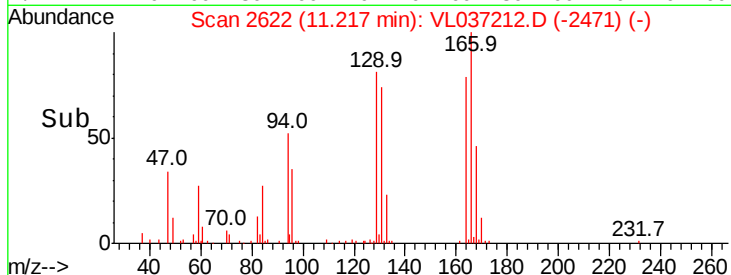
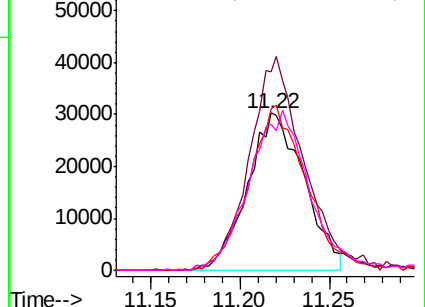
Abundance

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: 0.111 ppbv m

RT: 9.80 min Scan# 2182

Delta R.T. -0.01 min

Lab File: VL037212.D

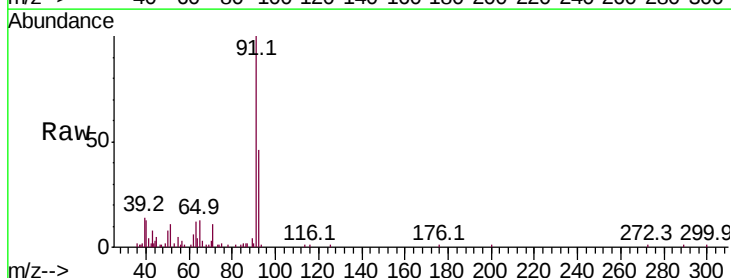
Acq: 17 Jun 2021 21:58

Tgt Ion: 91 Resp: 45395

Ion Ratio Lower Upper

91 100

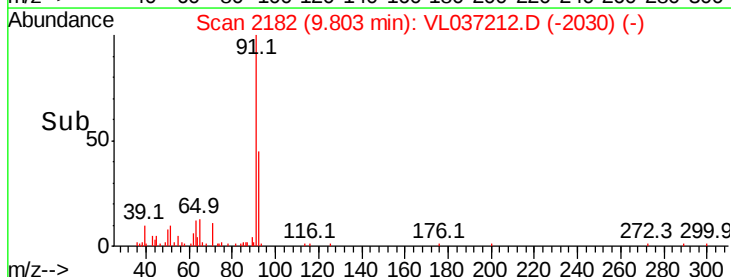
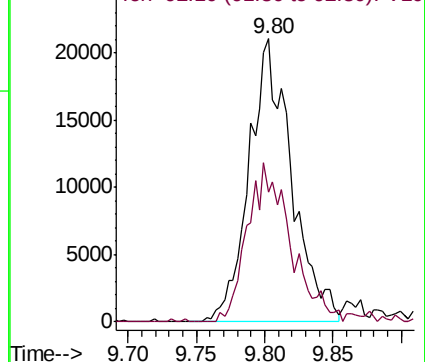
92 56.9 48.3 72.5

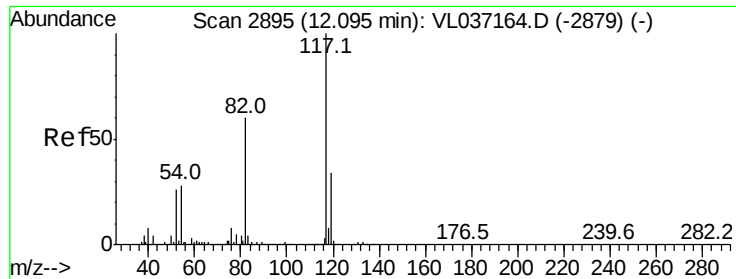


Abundance

Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0





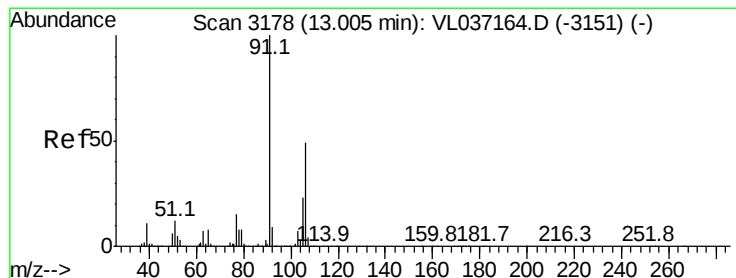
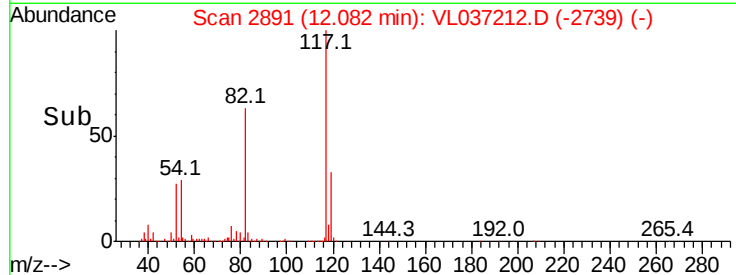
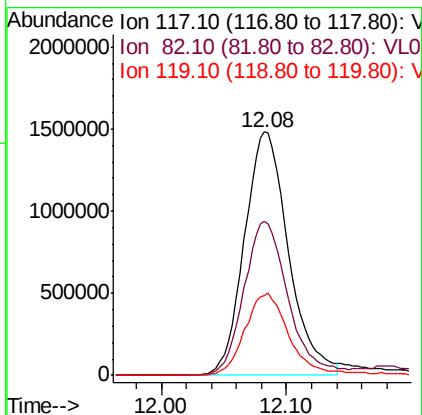
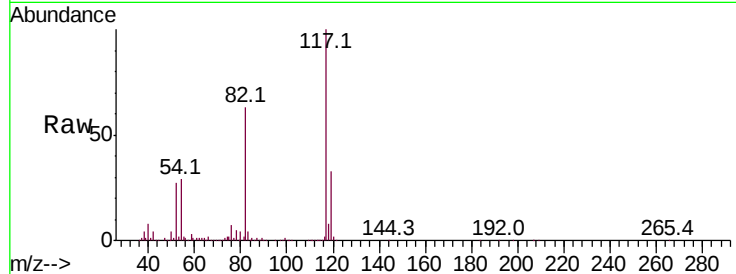
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.08 min Scan# 2891
Delta R.T. -0.01 min
Lab File: VL037212.D
Acq: 17 Jun 2021 21:58

Instrument :
MSVOA_L
ClientSampleId :
SV2DL

Tot Ion	Ratio	Lower	Upper
117	100		
82	63.9	51.7	77.5
119	35.3	47.6	71.4#

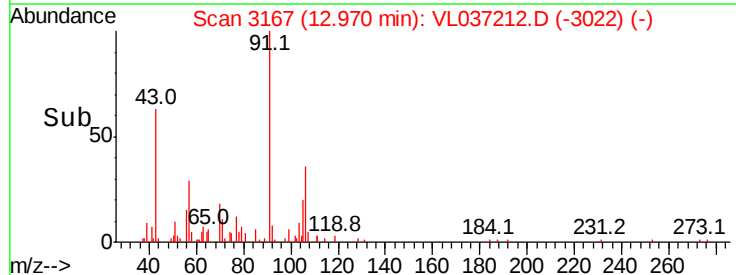
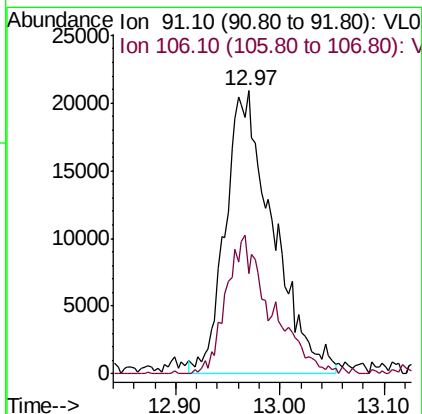
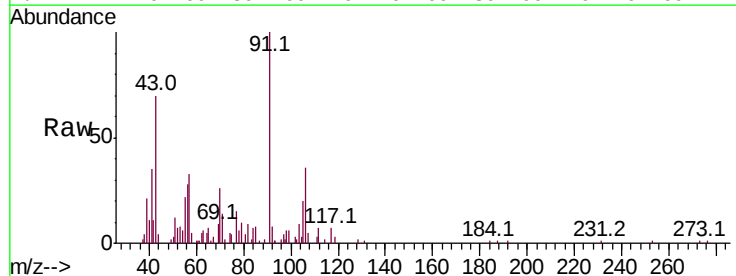
Manual Integrations
APPROVED

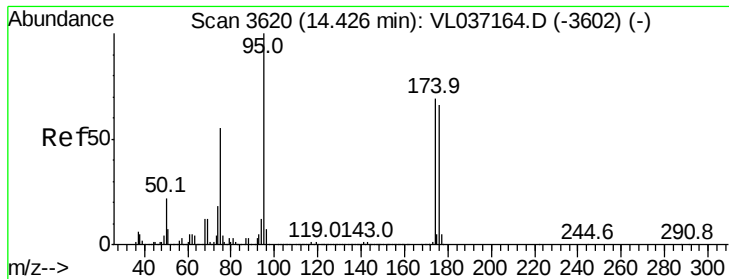
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#59
m/p-Xylene
Concen: 0.157 ppbv m
RT: 12.97 min Scan# 3167
Delta R.T. -0.04 min
Lab File: VL037212.D
Acq: 17 Jun 2021 21:58

Tgt Ion	Ratio	Lower	Upper
91	100		
106	0.0	37.0	55.4#





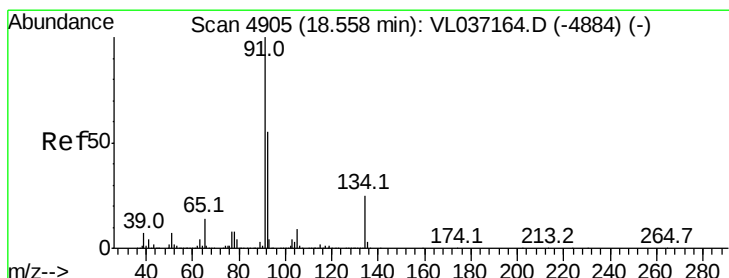
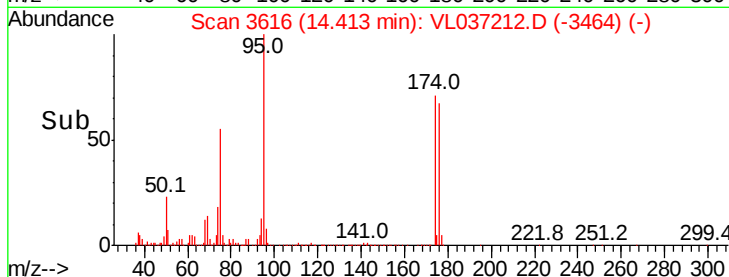
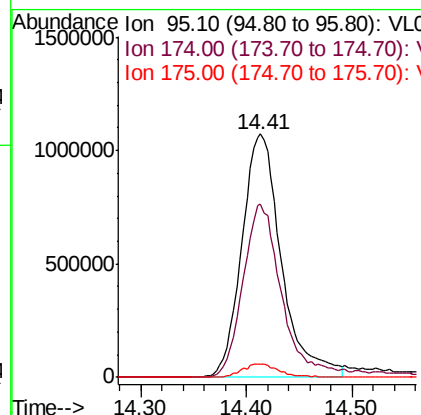
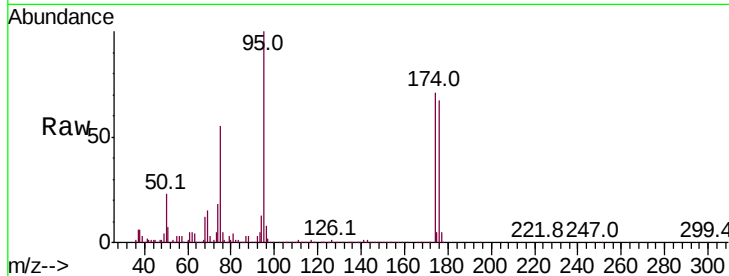
#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.186 ppbv
 RT: 14.41 min Scan# 3616
 Delta R.T. -0.01 min
 Lab File: VL037212.D
 Acq: 17 Jun 2021 21:58

Instrument :
 MSVOA_L
 ClientSampled :
 SV2DL

Tot Ion: 95 Resp: 2796720
 Ion Ratio Lower Upper
 95 100
 174 74.7 57.0 85.4
 175 5.5 4.4 6.6

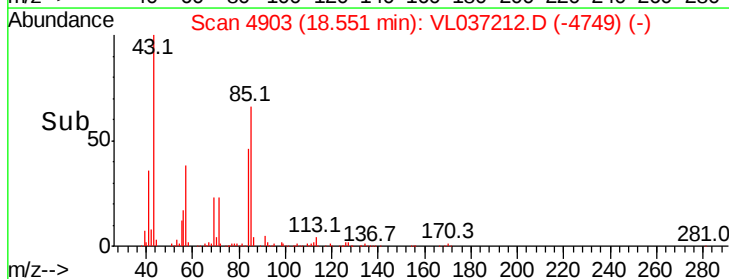
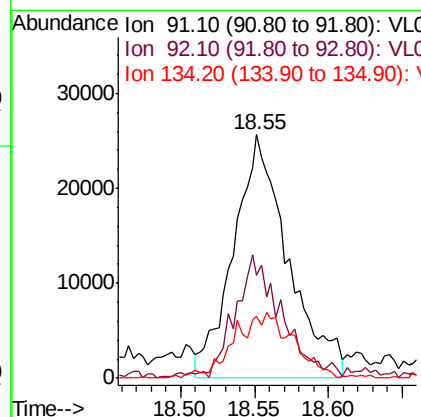
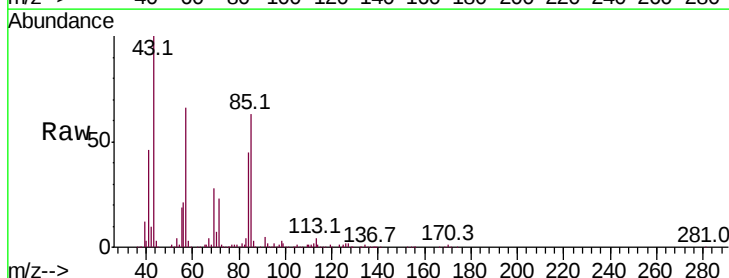
Manual Integrations
 APPROVED

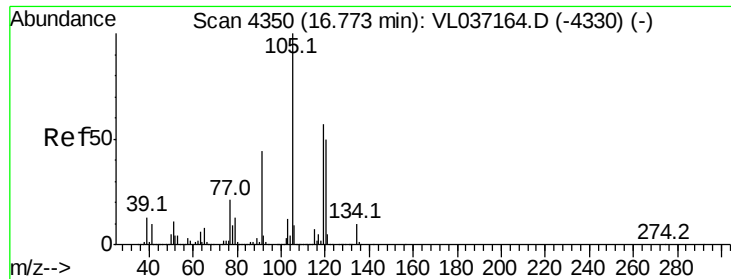
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#70
 n-Butylbenzene
 Concen: 0.125 ppbv m
 RT: 18.55 min Scan# 4903
 Delta R.T. -0.01 min
 Lab File: VL037212.D
 Acq: 17 Jun 2021 21:58

Tgt Ion: 91 Resp: 66158
 Ion Ratio Lower Upper
 91 100
 92 46.4 44.0 66.0
 134 29.3 20.2 30.4





#74
 1,2,4-Trimethylbenzene
 Concen: 0.177 ppbv m
 RT: 16.76 min Scan# 4346
 Delta R.T. -0.01 min
 Lab File: VL037212.D
 Acq: 17 Jun 2021 21:58

Instrument :
 MSVOA_L
 ClientSampleId :
 SV2DL

Tot Ion:	105	Resp:	80828
Ion Ratio	Lower	Upper	
105	100		
120	48.9	39.8	59.8
91	11.5	37.0	55.4#
77	19.4	17.0	25.4

Manual Integrations
 APPROVED

MMDadoda
 6/21/2021 12:58:36 PM

