

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL091720\
 Data File : VL035671.D
 Acq On : 18 Sep 2020 00:32
 Operator : SY/AP
 Sample : L3983-01DL2 300X
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SV-8DL2

Manual Integrations
 APPROVED

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 9/22/2020 2:11:52 PM

Quant Time: Sep 18 05:15:40 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL082720AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Sep 14 2020
 QLast Update : Mon Sep 14 15:19:50 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.67	49	1111103	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.19	114	4221318	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.11	117	4233197	10.00	ppbv	0.02

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.44	95	3090190	10.28	ppbv	0.01
Spiked Amount	10.000	Range	65 - 135	Recovery	=	102.80%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
5) Vinyl Chloride	3.26	62	9809	0.121	ppbv	99
9) Propene	3.01	41	12302	0.260	ppbv	92
13) Ethanol	3.62	45	6166	0.525	ppbv	100
15) Acetone	3.85	43	359799	2.936	ppbv	96
18) 1,1-Dichloroethene	4.29	96	29664	0.318	ppbv	95
20) Methylene Chloride	4.34	84	19035	0.209	ppbv	91
22) trans-1,2-Dichloroethene	4.89	96	51369	0.517	ppbv	95
31) cis-1,2-Dichloroethene	5.55	61	1760641	13.990	ppbv	97
34) 2-Butanone	5.27	43	23664	0.189	ppbv	98
38) Trichloroethene	7.85	130	6516422	41.055	ppbv #	93
44) 2,2,4-Trimethylpentane	7.88	57	169187	0.471	ppbv	94
52) Tetrachloroethene	11.24	164	11798131m	73.908	ppbv	

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

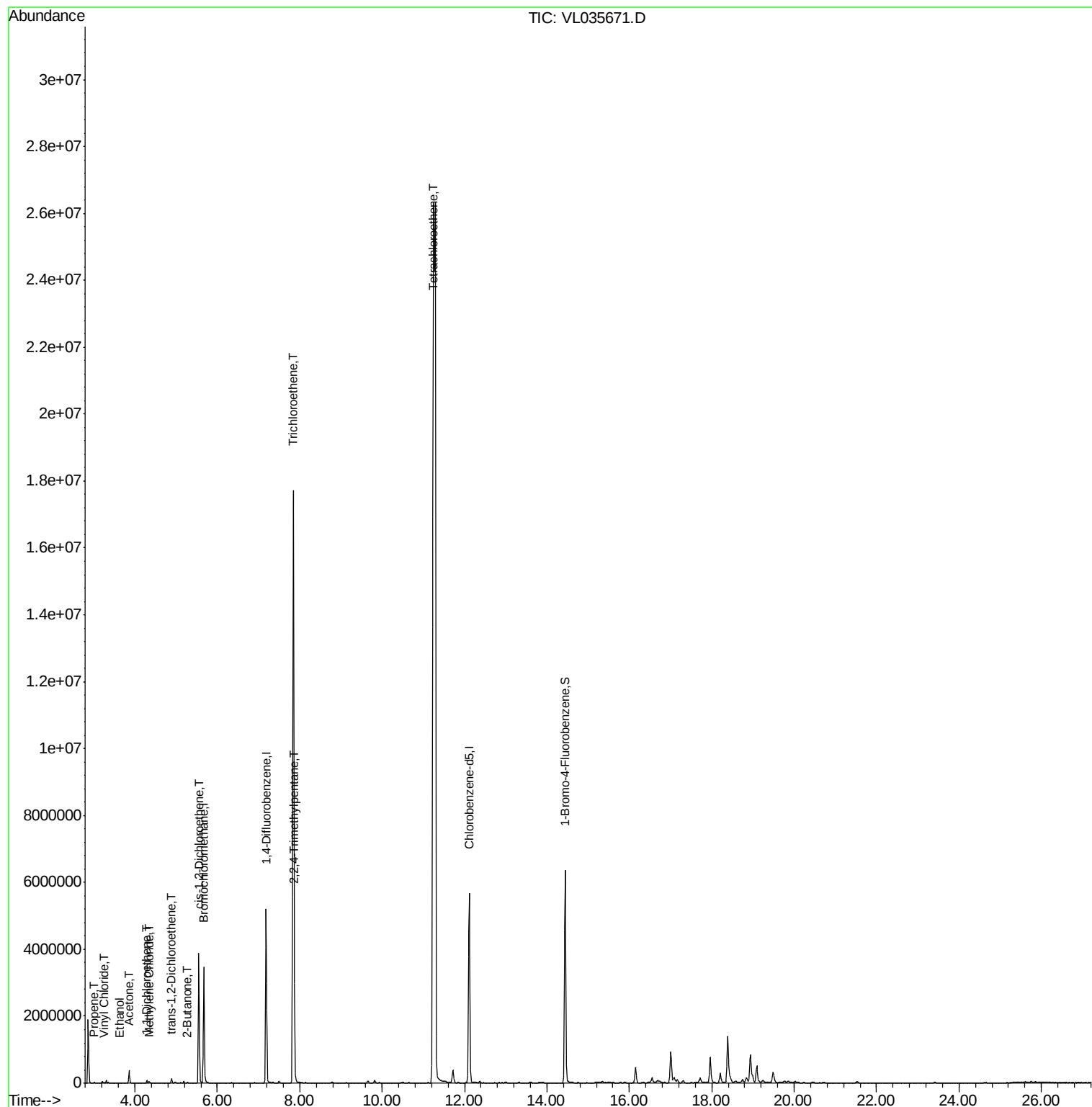
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL091720\
Data File : VL035671.D
Acq On : 18 Sep 2020 00:32
Operator : SY/AP
Sample : L3983-01DL2 300X
Misc : 400ml/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

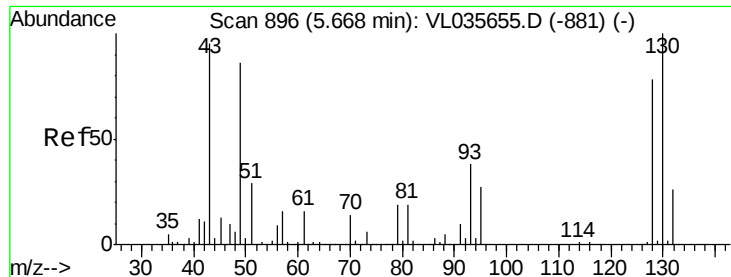
Instrument :
MSVOA_L
ClientSampleId :
SV-8DL2

Manual Integrations
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Quant Time: Sep 18 05:15:40 2020
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL082720AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Sep
QLast Update : Mon Sep 14 15:19:50 2020
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.67 min Scan# 897

Delta R.T. 0.01 min

Lab File: VL035671.D

Acq: 18 Sep 2020 00:32

Instrument :

MSVOA_L

ClientSampleID :

SV-8DL2

Tot Ion: 49 Resp: 1111103

Ion Ratio Lower Upper

49 100

128 89.1 50.0 150.1

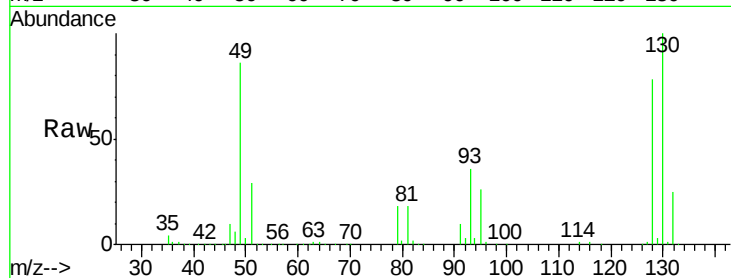
130 113.9 64.4 193.2

Manual Integrations

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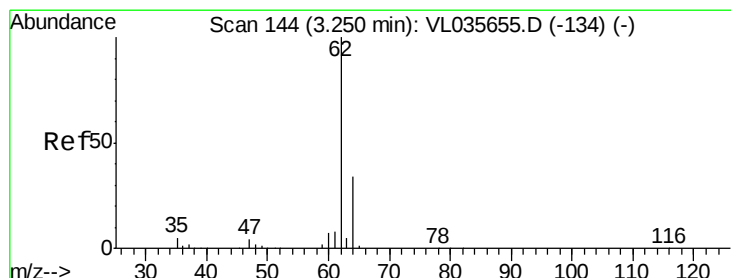
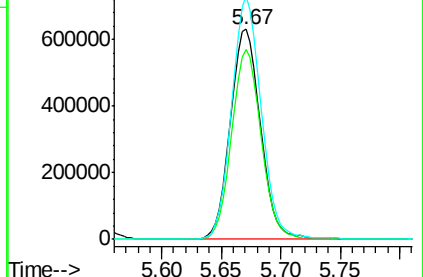
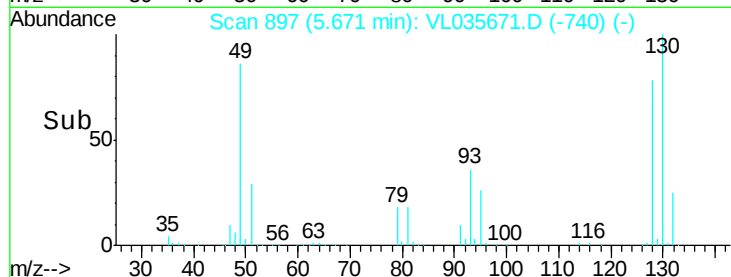
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Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): VL0

Ion 130.00 (129.70 to 130.70): VL0



#5

Vinyl Chloride

Concen: 0.121 ppbv

RT: 3.26 min Scan# 146

Delta R.T. 0.01 min

Lab File: VL035671.D

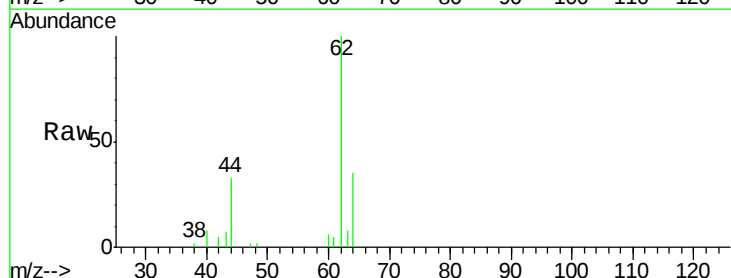
Acq: 18 Sep 2020 00:32

Tgt Ion: 62 Resp: 9809

Ion Ratio Lower Upper

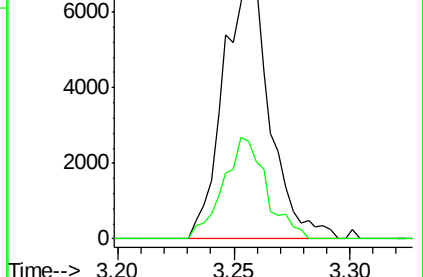
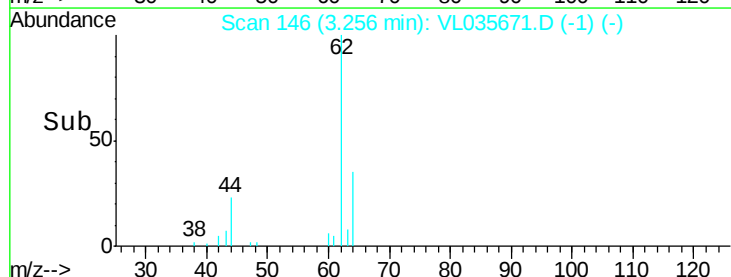
62 100

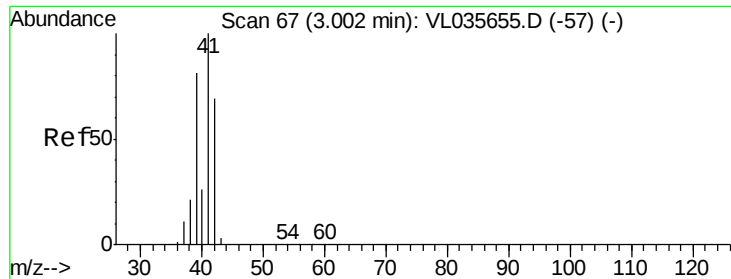
64 34.6 27.4 41.2



Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 64.10 (63.80 to 64.80): VL0





#9

Propene

Concen: 0.260 ppbv

RT: 3.01 min Scan# 70

Delta R.T. 0.02 min

Lab File: VL035671.D

Acq: 18 Sep 2020 00:32

Instrument :

MSVOA_L

ClientSampleId :

SV-8DL2

Tot Ion: 41 Resp: 12302

Ion Ratio Lower Upper

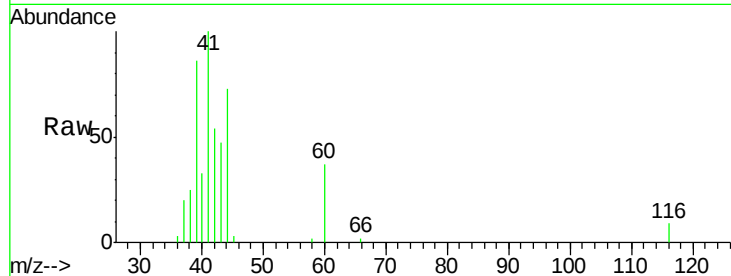
41 100

42 63.4 56.3 84.5

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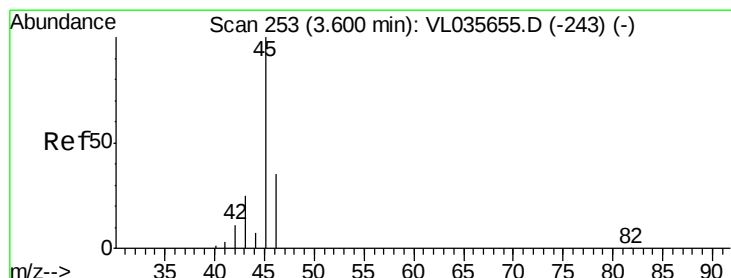
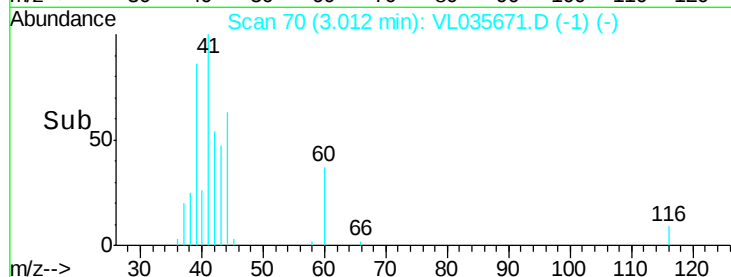
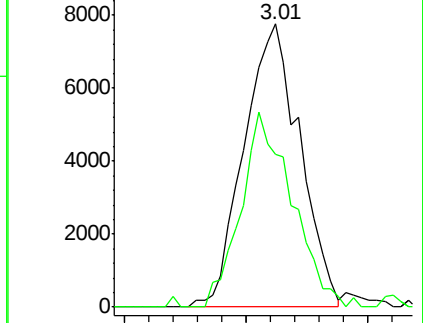
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Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0



#13

Ethanol

Concen: 0.525 ppbv

RT: 3.62 min Scan# 259

Delta R.T. 0.02 min

Lab File: VL035671.D

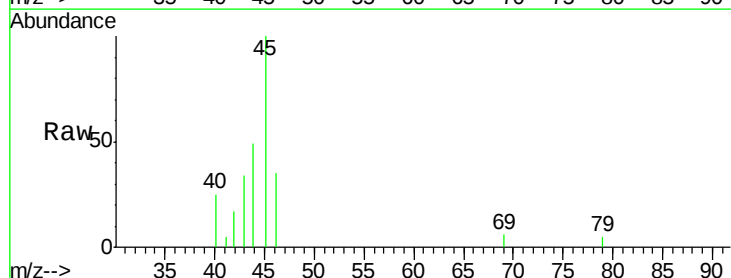
Acq: 18 Sep 2020 00:32

Tgt Ion: 45 Resp: 6166

Ion Ratio Lower Upper

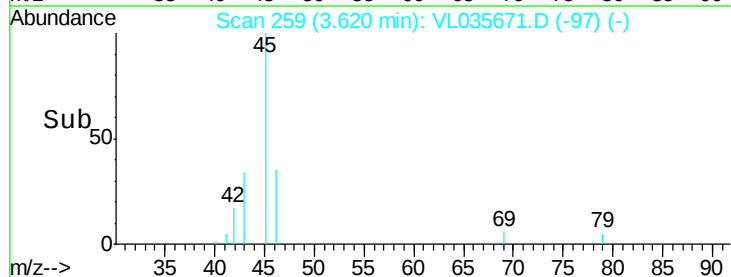
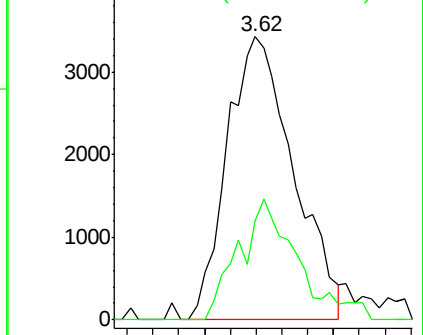
45 100

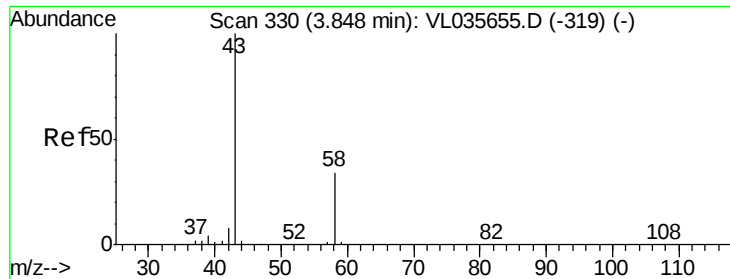
46 37.7 15.2 60.6



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 46.10 (45.80 to 46.80): VL0





#15

Acetone

Concen: 2.936 ppbv

RT: 3.85 min Scan# 332

Delta R.T. 0.02 min

Lab File: VL035671.D

Acq: 18 Sep 2020 00:32

Instrument :

MSVOA_L

ClientSampleId :

SV-8DL2

Tot Ion: 43 Resp: 359799

Ion Ratio Lower Upper

43 100

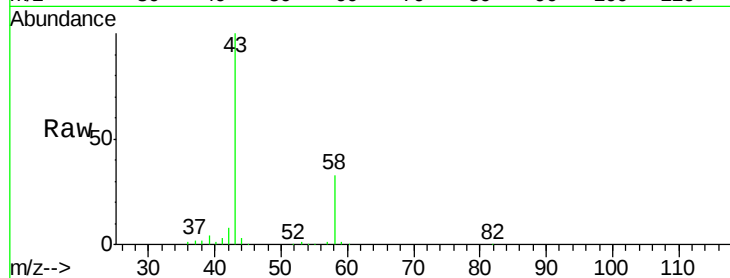
58 37.6 28.4 42.6

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Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

250000

200000

150000

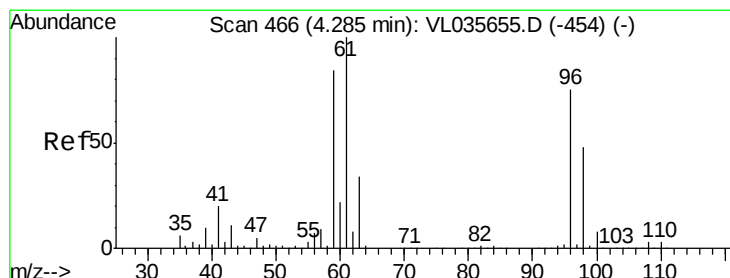
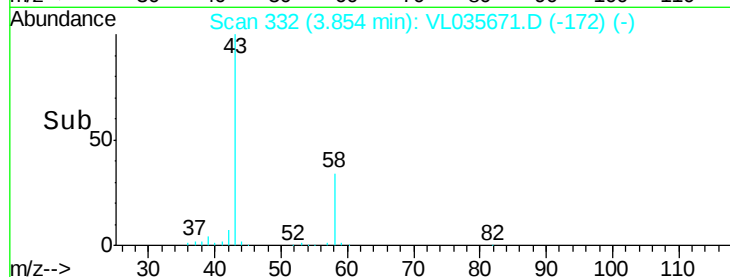
100000

50000

0

3.80 3.85 3.90

Time-->



#18

1,1-Dichloroethene

Concen: 0.318 ppbv

RT: 4.29 min Scan# 467

Delta R.T. 0.01 min

Lab File: VL035671.D

Acq: 18 Sep 2020 00:32

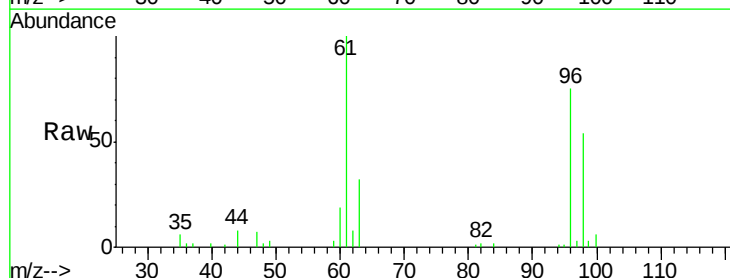
Tgt Ion: 96 Resp: 29664

Ion Ratio Lower Upper

96 100

61 133.2 103.0 154.6

98 72.0 52.8 79.2



Abundance Ion 96.00 (95.70 to 96.70): VL0

Ion 61.10 (60.80 to 61.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

30000

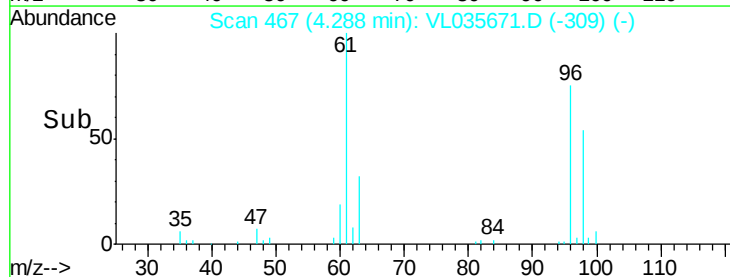
20000

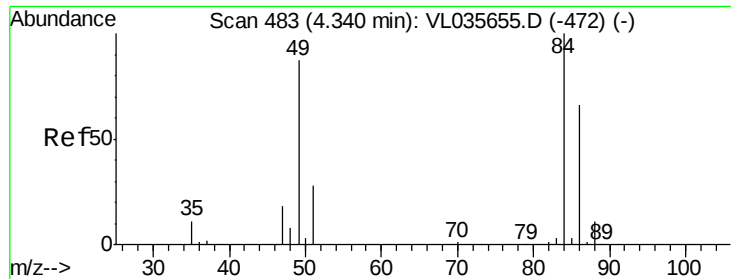
10000

0

4.25 4.30 4.35

Time-->





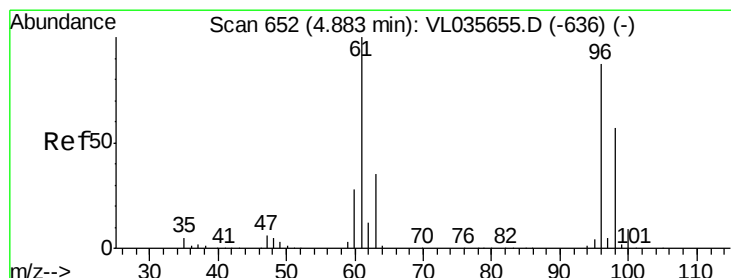
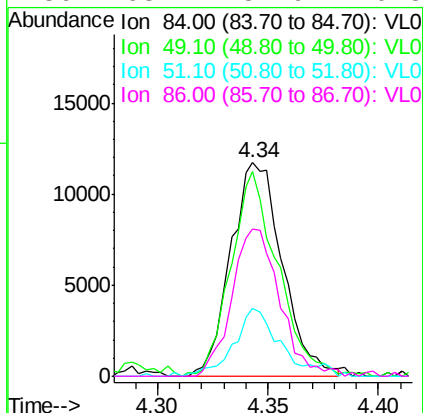
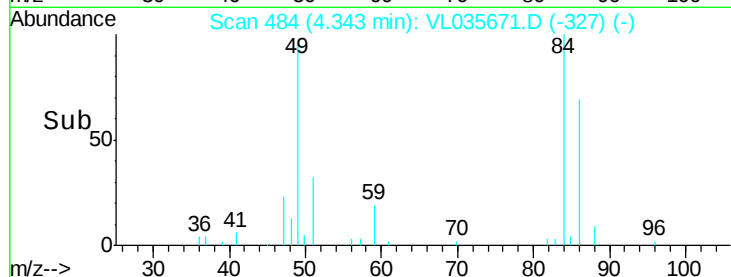
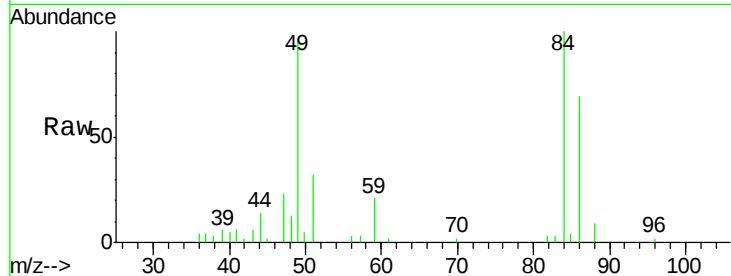
#20
Methvlene Chloride
Concen: 0.209 ppbv
RT: 4.34 min Scan# 484
Delta R.T. 0.01 min
Lab File: VL035671.D
Acq: 18 Sep 2020 00:32

Instrument :
MSVOA_L
ClientSampleId :
SV-8DL2

Tot Ion:	84	Resp:	19035
Ion	Ratio	Lower	Upper
84	100		
49	94.7	65.4	98.0
51	31.7	21.5	32.3
86	68.7	52.9	79.3

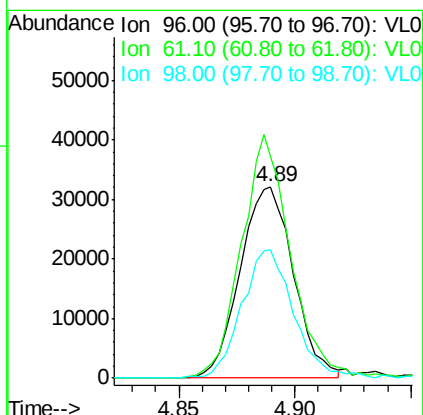
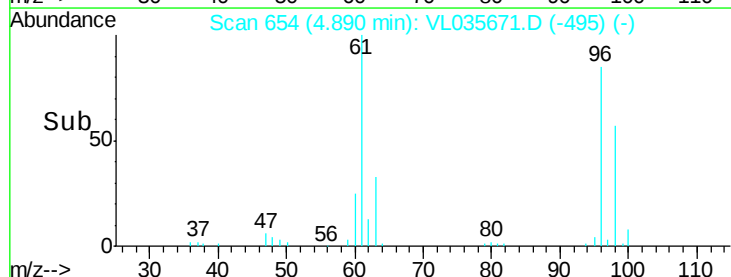
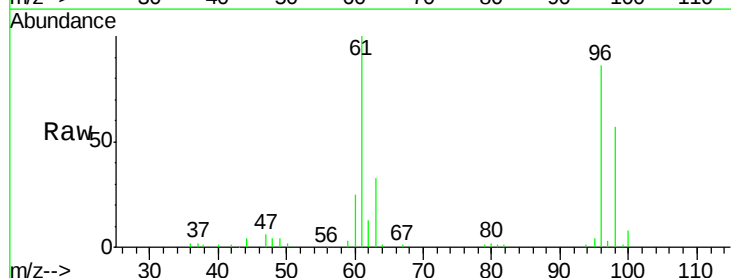
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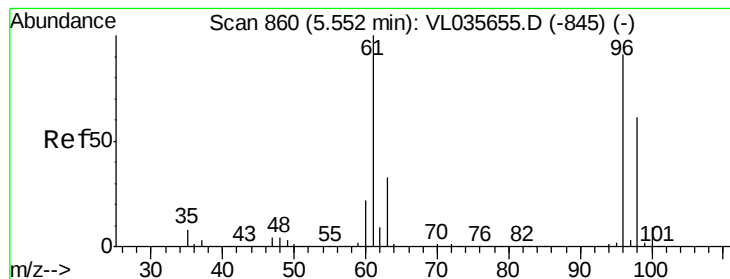
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#22
trans-1,2-Dichloroethene
Concen: 0.517 ppbv
RT: 4.89 min Scan# 654
Delta R.T. 0.01 min
Lab File: VL035671.D
Acq: 18 Sep 2020 00:32

Tgt Ion:	96	Resp:	51369
Ion	Ratio	Lower	Upper
96	100		
61	115.4	86.0	129.0
98	66.2	52.3	78.5





#31

cis-1,2-Dichloroethene

Concen: 13.990 ppbv

RT: 5.55 min Scan# 860

Delta R.T. 0.01 min

Lab File: VL035671.D

Acq: 18 Sep 2020 00:32

Instrument :

MSVOA_L

ClientSampleId :

SV-8DL2

Tot Ion: 61 Resp: 1760641

Ion Ratio Lower Upper

61 100

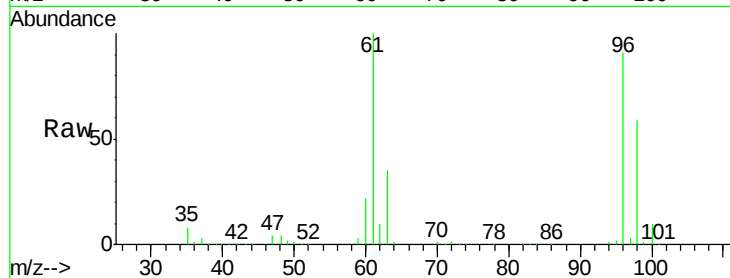
96 90.8 74.4 111.6

98 58.8 49.2 73.8

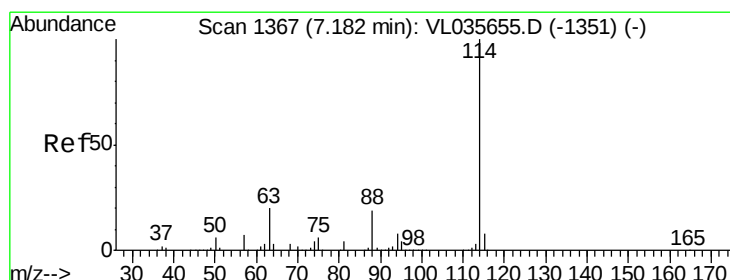
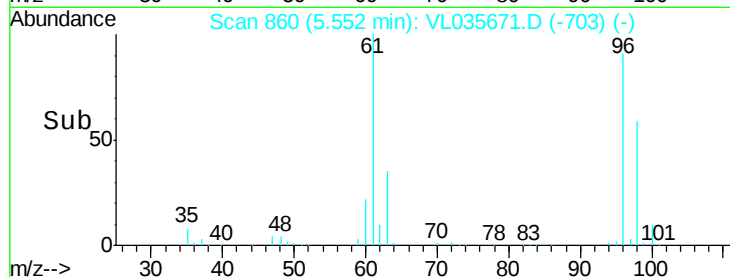
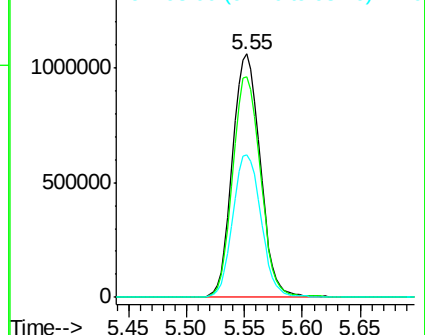
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Abundance Ion 61.10 (60.80 to 61.80): VL0
Ion 96.00 (95.70 to 96.70): VL0
Ion 98.00 (97.70 to 98.70): VL0



#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.19 min Scan# 1368

Delta R.T. 0.01 min

Lab File: VL035671.D

Acq: 18 Sep 2020 00:32

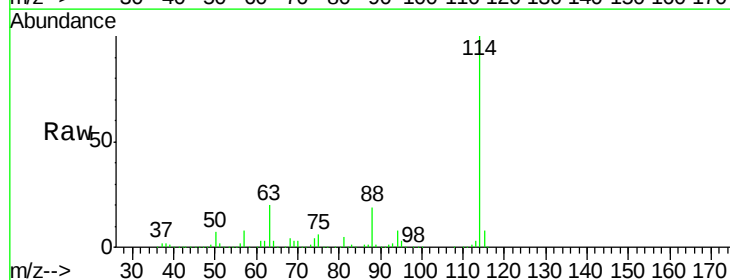
Tgt Ion: 114 Resp: 4221318

Ion Ratio Lower Upper

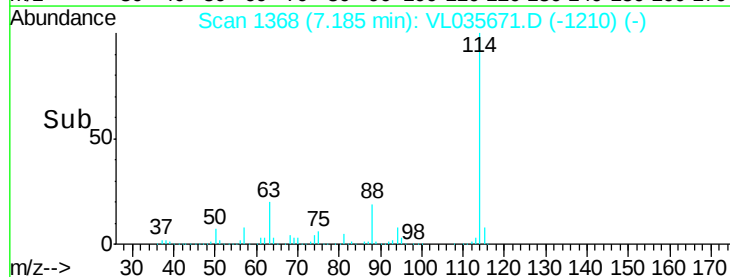
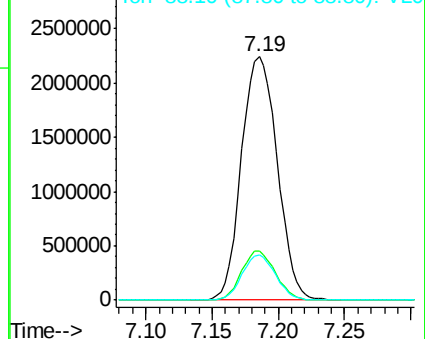
114 100

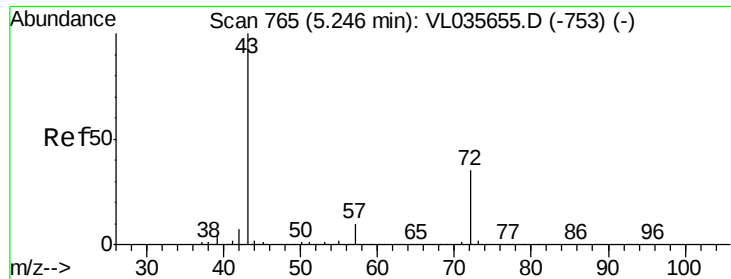
63 19.2 14.7 22.1

88 17.3 13.4 20.2



Abundance Ion 114.10 (113.80 to 114.80): V
Ion 63.10 (62.80 to 63.80): VL0
Ion 88.10 (87.80 to 88.80): VL0





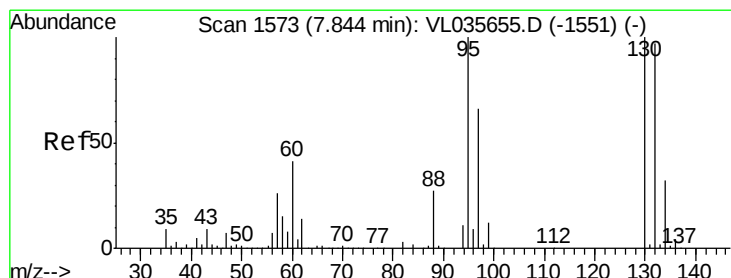
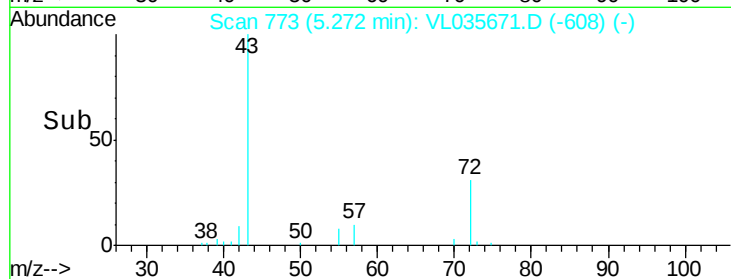
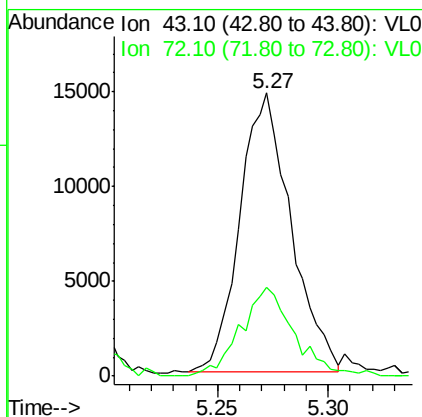
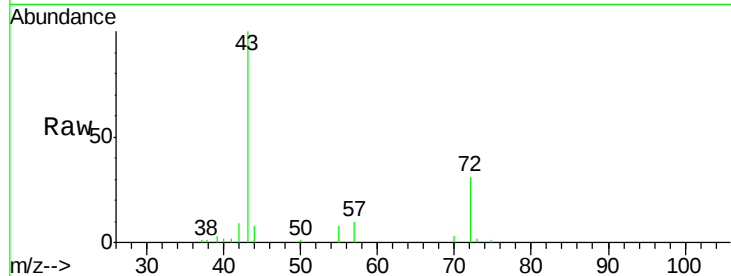
#34
2-Butanone
Concen: 0.189 ppbv
RT: 5.27 min Scan# 773
Delta R.T. 0.03 min
Lab File: VL035671.D
Acq: 18 Sep 2020 00:32

Instrument :
MSVOA_L
ClientSampleId :
SV-8DL2

Tot Ion: 43 Resp: 23664
Ion Ratio Lower Upper
43 100
72 33.3 27.7 41.5

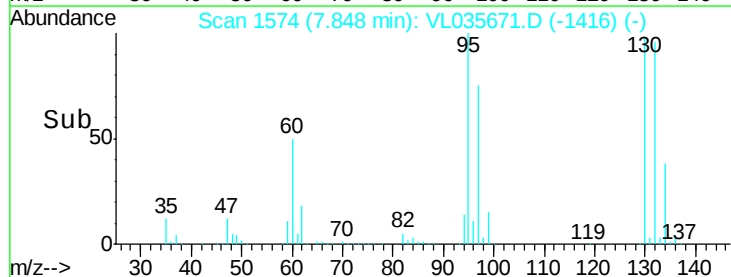
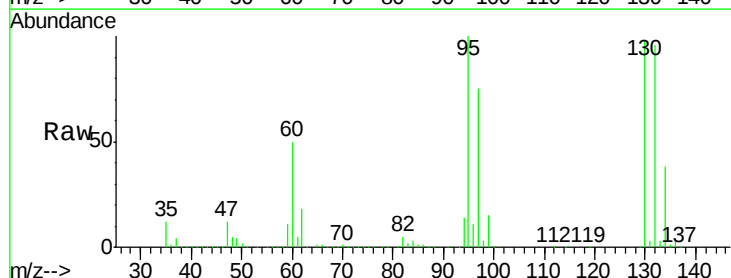
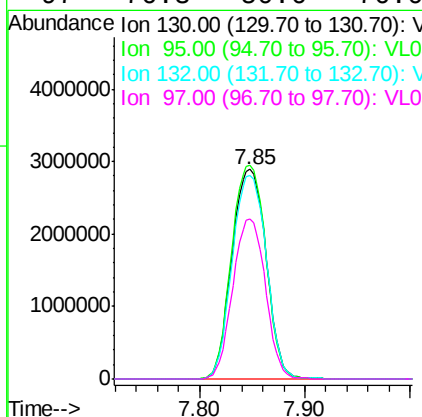
Manual Integrations
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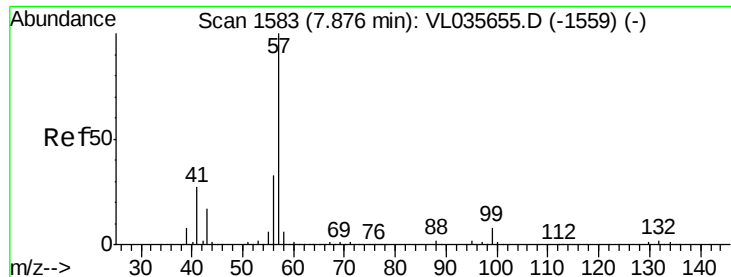
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#38
Trichloroethene
Concen: 41.055 ppbv
RT: 7.85 min Scan# 1574
Delta R.T. 0.01 min
Lab File: VL035671.D
Acq: 18 Sep 2020 00:32

Tgt Ion:130 Resp: 6516422
Ion Ratio Lower Upper
130 100
95 101.8 74.6 112.0
132 97.2 77.6 116.4
97 76.3 50.6 76.0#





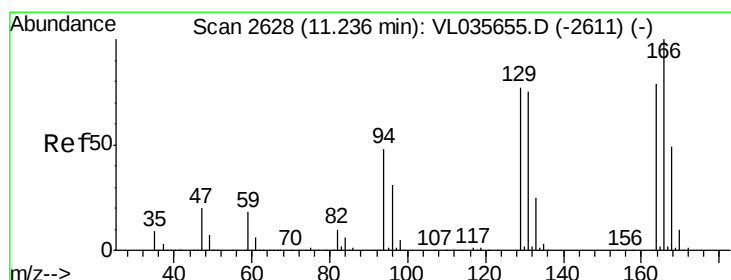
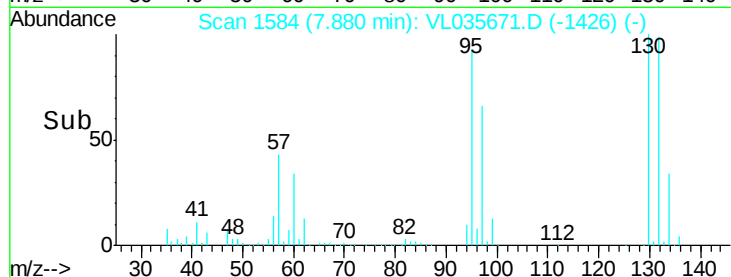
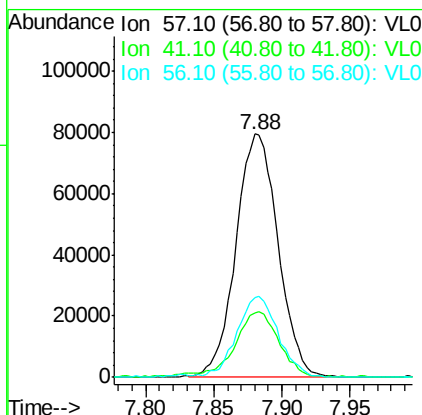
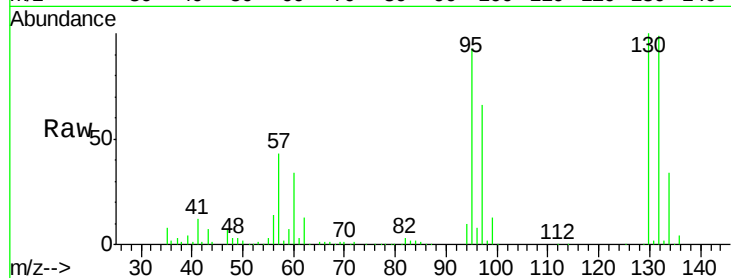
#44
 2,2,4-Trimethylpentane
 Concen: 0.471 ppbv
 RT: 7.88 min Scan# 1584
 Delta R.T. 0.01 min
 Lab File: VL035671.D
 Acq: 18 Sep 2020 00:32

Instrument :
 MSVOA_L
 ClientSampled :
 SV-8DL2

Tot Ion	Ratio	Lower	Upper
57	100		
41	29.7	20.5	30.7
56	33.9	25.3	37.9

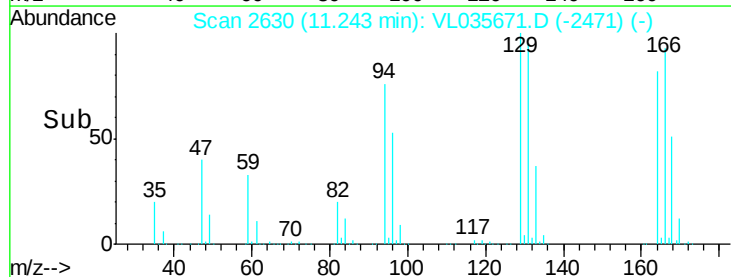
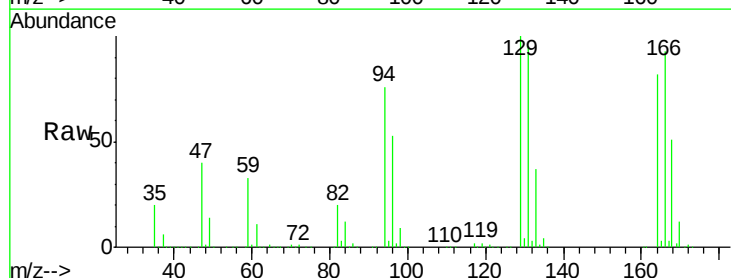
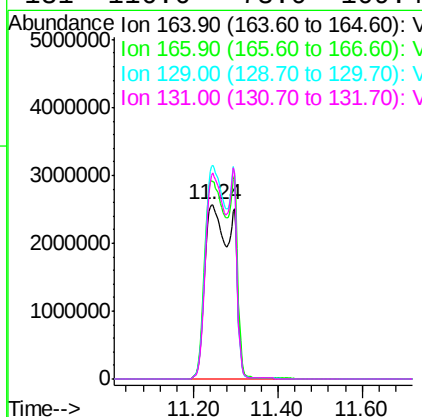
Manual Integrations
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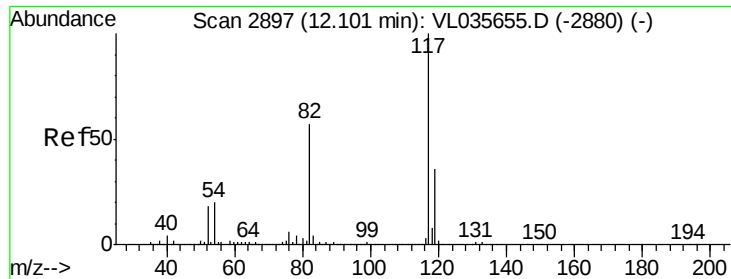
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#52
 Tetrachloroethene
 Concen: 73.908 ppbv m
 RT: 11.24 min Scan# 2630
 Delta R.T. 0.01 min
 Lab File: VL035671.D
 Acq: 18 Sep 2020 00:32

Tgt Ion	Ratio	Lower	Upper
164	100		
166	113.7	100.9	151.3
129	122.1	75.3	112.9#
131	116.6	73.0	109.4#





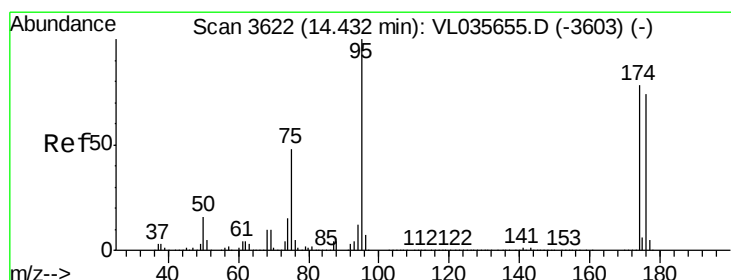
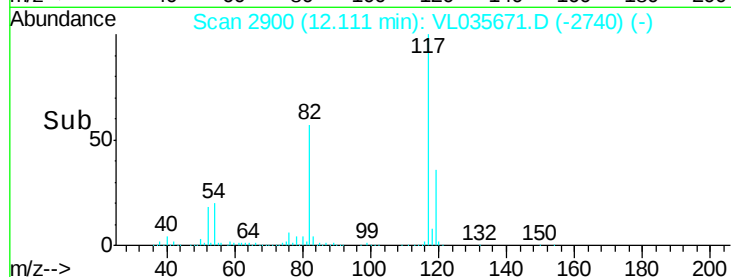
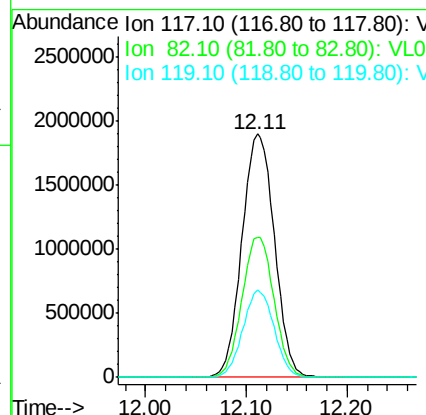
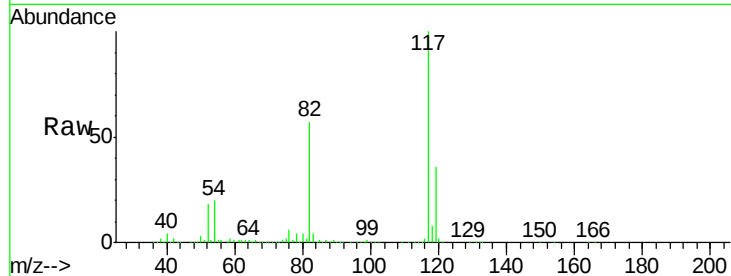
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.11 min Scan# 2900
Delta R.T. 0.02 min
Lab File: VL035671.D
Acq: 18 Sep 2020 00:32

Instrument :
MSVOA_L
ClientSampleId :
SV-8DL2

Tot Ion:117 Resp: 4233197
Ion Ratio Lower Upper
117 100
82 56.8 41.6 62.4
119 34.4 29.3 43.9

Manual Integrations
APPROVED

MMDadoda
9/22/2020 2:11:52 PM



#68
1-Bromo-4-Fluorobenzene
Concen: 10.279 ppbv
RT: 14.44 min Scan# 3625
Delta R.T. 0.01 min
Lab File: VL035671.D
Acq: 18 Sep 2020 00:32

Tgt Ion: 95 Resp: 3090190
Ion Ratio Lower Upper
95 100
174 79.1 69.6 104.4
175 5.7 5.1 7.7

