

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL112420\
 Data File : VL036010.D
 Acq On : 25 Nov 2020 1:40
 Operator : SY/AP
 Sample : L4883-01DUP
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA1DUP

Manual Integrations
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 11/27/2020 1:16:05 PM

Quant Time: Nov 25 07:26:29 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL110320AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Nov 0
 QLast Update : Wed Nov 04 02:40:06 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.64	49	1202287	10.00	ppbv	-0.03
33) 1,4-Difluorobenzene	7.15	114	4187720	10.00	ppbv	-0.03
55) Chlorobenzene-d5	12.06	117	3923115	10.00	ppbv	-0.04

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.39	95	3084243	11.07	ppbv	-0.04
Spiked Amount	10.000	Range	65 - 135	Recovery	=	110.70%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.02	85	52647	0.233	ppbv	96
4) Chloromethane	3.12	50	43841	0.627	ppbv	98
9) Propene	3.00	41	52136	0.989	ppbv	86
11) Trichlorofluoromethane	3.92	101	80356	0.283	ppbv	94
13) Ethanol	3.61	45	12082125	1056.828	ppbv	100
15) Acetone	3.82	43	3161322	24.595	ppbv	98
17) tert-Butyl alcohol	4.30	59	195673m	1.149	ppbv	
19) Isopropyl Alcohol	3.98	45	11781347	149.152	ppbv #	95
20) Methylene Chloride	4.32	84	720242	7.960	ppbv	96
26) Hexane	5.66	57	293891	2.105	ppbv #	69
30) Cyclohexane	7.14	84	31305m	0.206	ppbv	
34) 2-Butanone	5.22	43	169986	1.251	ppbv	97
35) Carbon Tetrachloride	6.99	117	14216	0.064	ppbv	89
36) Benzene	6.86	78	84069	0.270	ppbv	95
52) Tetrachloroethene	11.19	164	8189m	0.056	ppbv	
53) Toluene	9.78	91	594328	1.582	ppbv	97
59) m/p-Xylene	12.94	91	120238	0.297	ppbv	99
60) o-Xylene	13.67	91	63179	0.161	ppbv	97
61) Styrene	13.51	104	53439m	0.185	ppbv	
65) tert-Butylbenzene	16.73	119	90092	0.160	ppbv #	53
69) p-Isopropyltoluene	17.63	119	88071	0.141	ppbv	96
73) 1,3,5-Trimethylbenzene	15.97	105	164282	0.376	ppbv	90
74) 1,2,4-Trimethylbenzene	16.73	105	759349	1.624	ppbv #	69

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

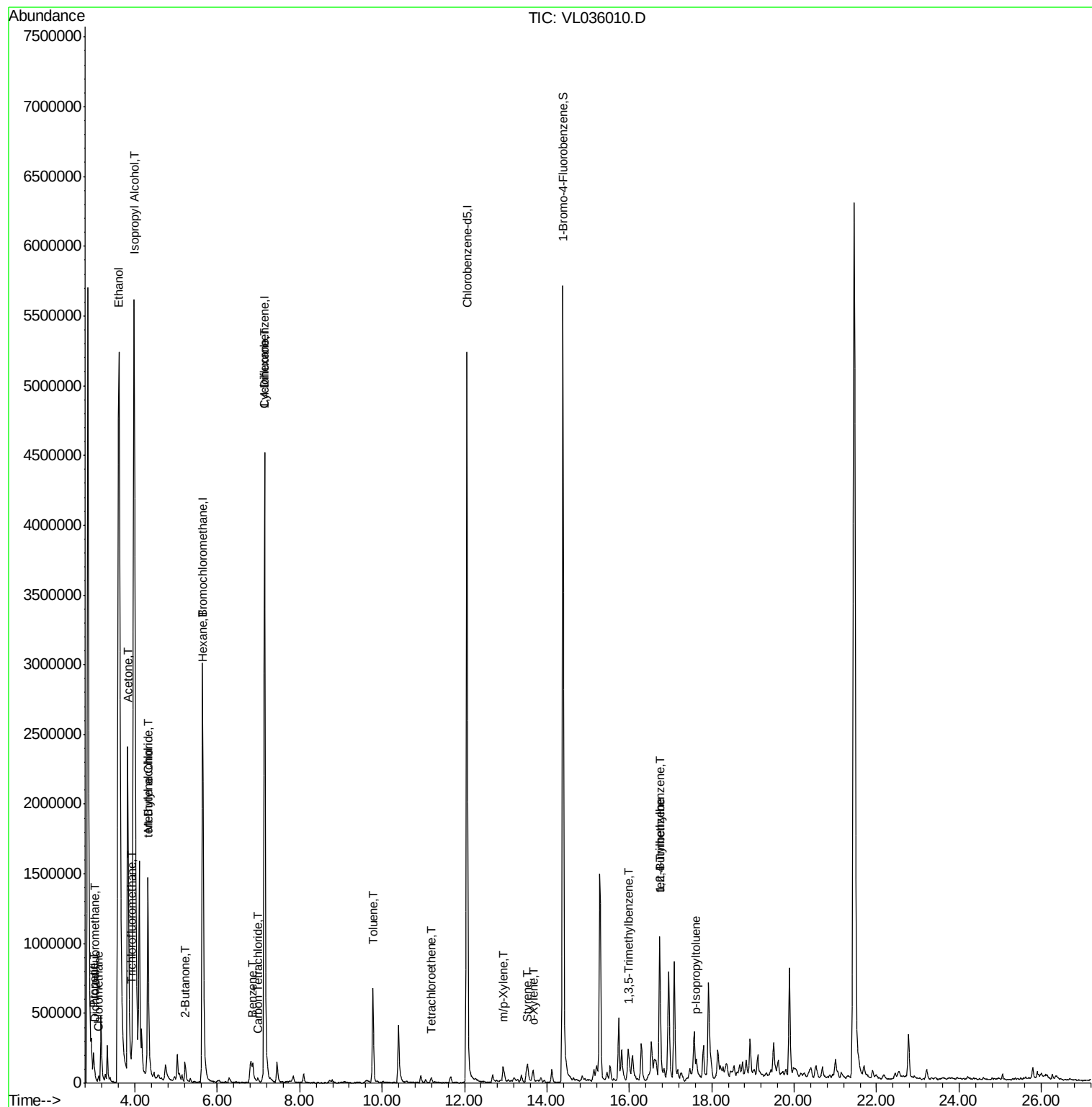
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL112420\
Data File : VL036010.D
Acq On : 25 Nov 2020 1:40
Operator : SY/AP
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Misc : 400ml/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

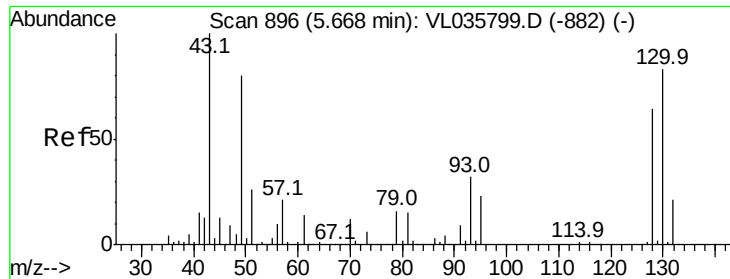
Instrument :
MSVOA_L
ClientSampleId :
IA1DUP

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Quant Time: Nov 25 07:26:29 2020
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL110320AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed Nov
QLast Update : Wed Nov 04 02:40:06 2020
Response via : Initial Calibration





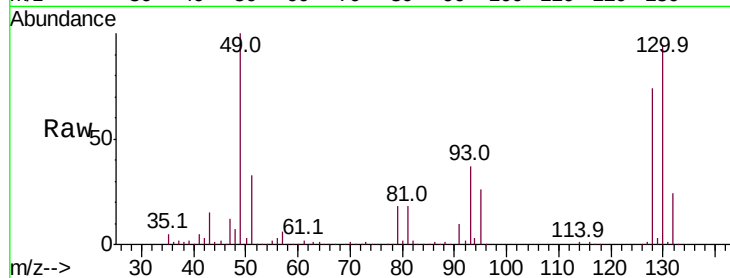
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.64 min Scan# 887
Delta R.T. -0.03 min
Lab File: VL036010.D
Acq: 25 Nov 2020 1:40

Instrument :
MSVOA_L
ClientSampled :
IA1DUP

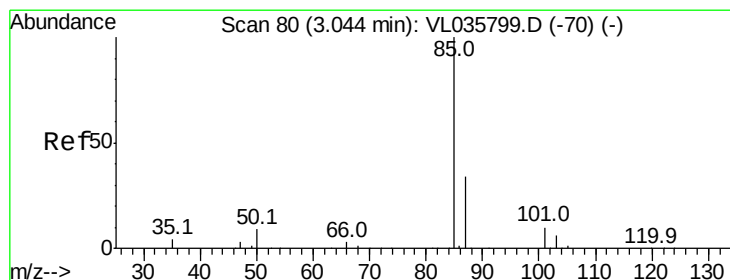
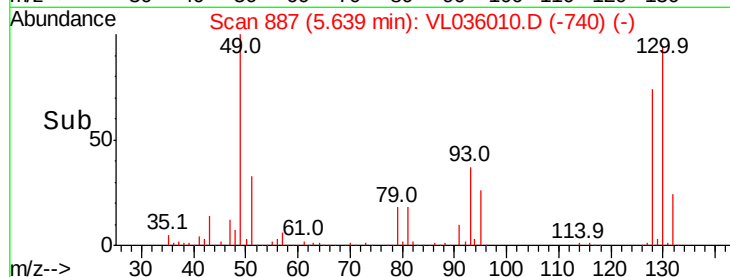
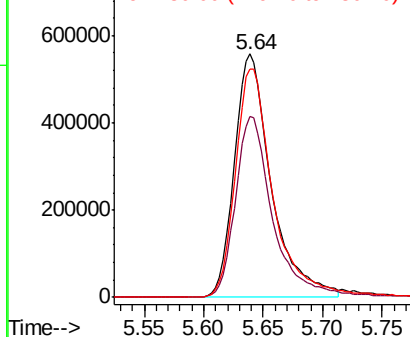
Tot Ion: 49 Resp: 1202287
Ion Ratio Lower Upper
49 100
128 76.0 41.5 124.6
130 97.4 53.7 161.1

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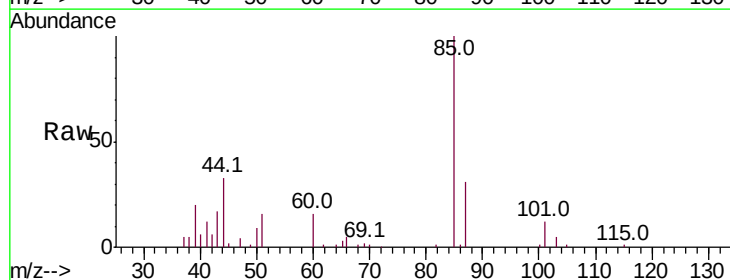


Abundance Ion 49.10 (48.80 to 49.80): VL0
Ion 128.00 (127.70 to 128.70): V
Ion 130.00 (129.70 to 130.70): V

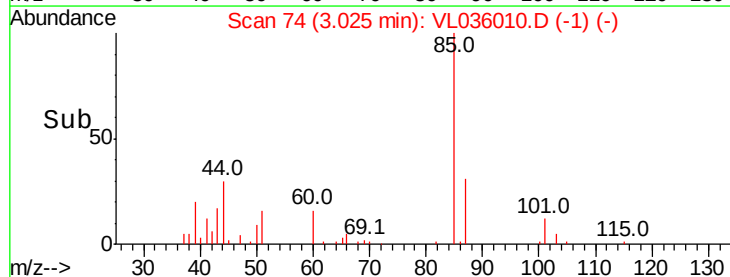
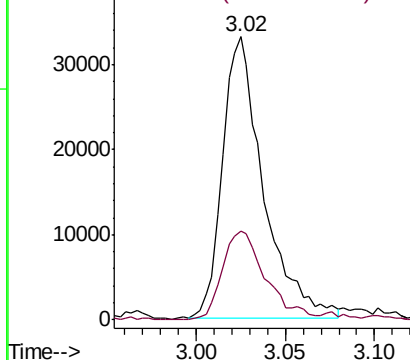


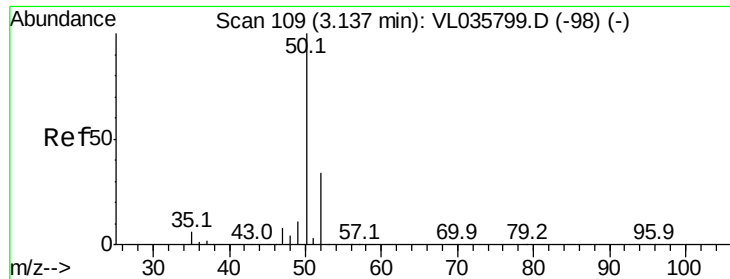
#2
Dichlorodifluoromethane
Concen: 0.233 ppbv
RT: 3.02 min Scan# 74
Delta R.T. -0.02 min
Lab File: VL036010.D
Acq: 25 Nov 2020 1:40

Tgt Ion: 85 Resp: 52647
Ion Ratio Lower Upper
85 100
87 31.7 27.1 40.7



Abundance Ion 85.00 (84.70 to 85.70): VL0
Ion 87.00 (86.70 to 87.70): VL0





#4

Chloromethane

Concen: 0.627 ppbv

RT: 3.12 min Scan# 103

Delta R.T. -0.02 min

Lab File: VL036010.D

Acq: 25 Nov 2020 1:40

Instrument :

MSVOA_L

ClientSampled :

IA1DUP

Tot Ion: 50 Resp: 43841

Ion Ratio Lower Upper

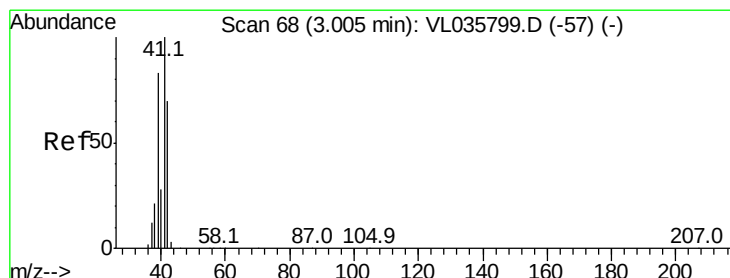
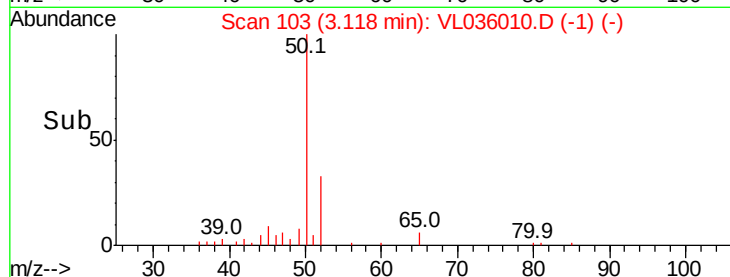
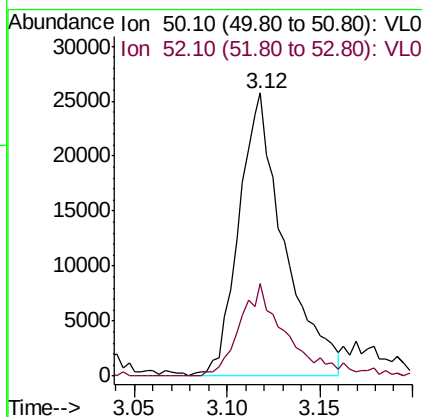
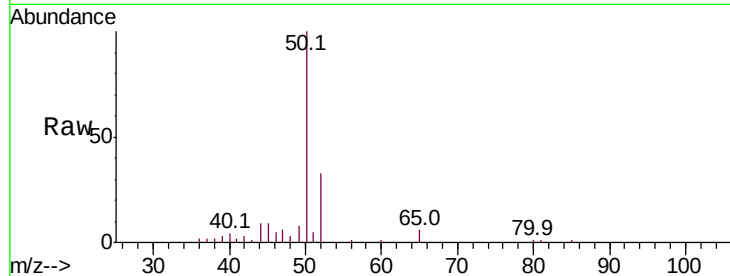
50 100

52 32.6 27.1 40.7

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#9

Propene

Concen: 0.989 ppbv

RT: 3.00 min Scan# 65

Delta R.T. -0.01 min

Lab File: VL036010.D

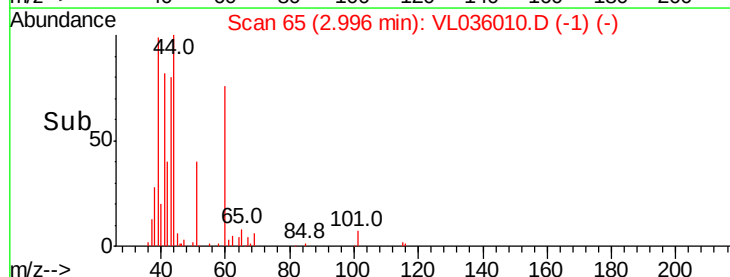
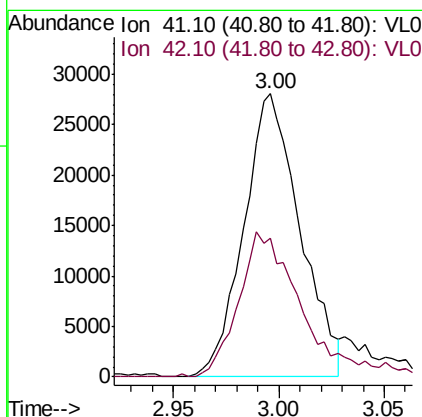
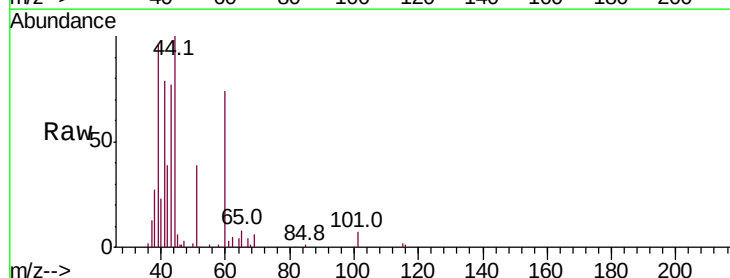
Acq: 25 Nov 2020 1:40

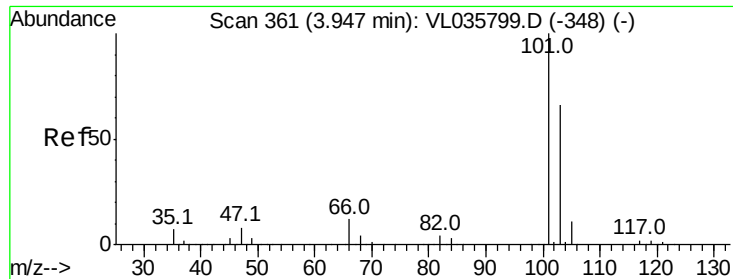
Tgt Ion: 41 Resp: 52136

Ion Ratio Lower Upper

41 100

42 58.4 56.2 84.4





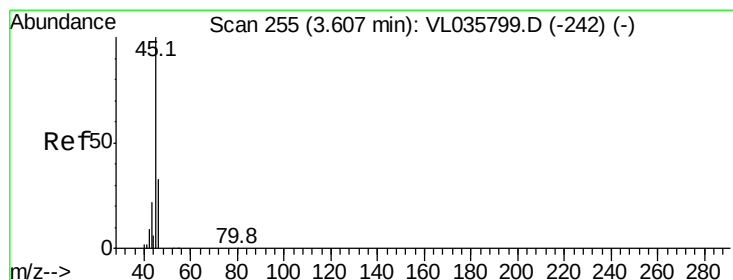
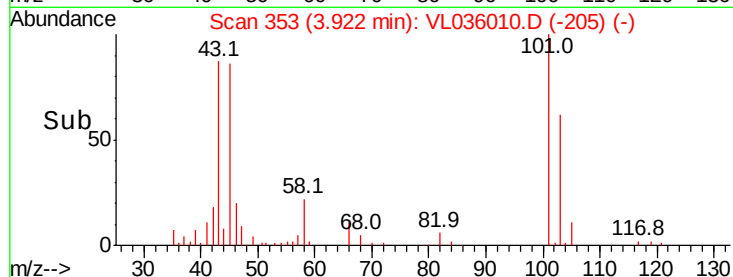
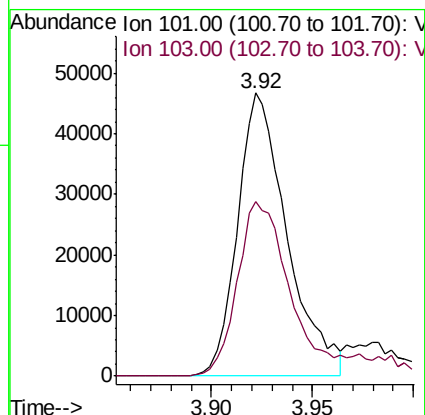
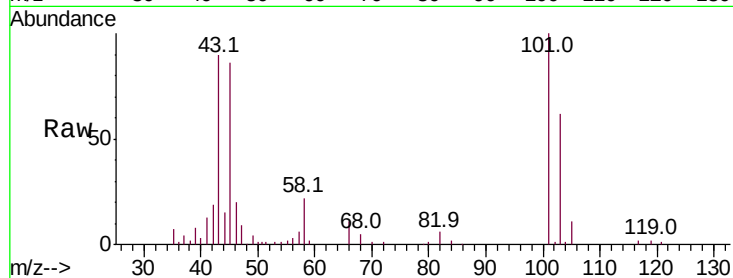
#11
 Trichlorofluoromethane
 Concen: 0.283 ppbv
 RT: 3.92 min Scan# 353
 Delta R.T. -0.03 min
 Lab File: VL036010.D
 Acq: 25 Nov 2020 1:40

Instrument :
 MSVOA_L
 ClientSampleID :
 IA1DUP

Tot Ion:101 Resp: 80356
 Ion Ratio Lower Upper
 101 100
 103 61.7 53.0 79.4

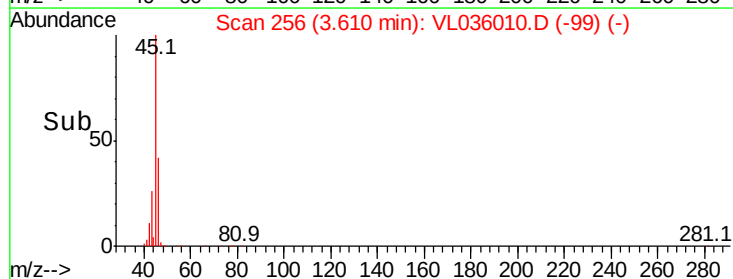
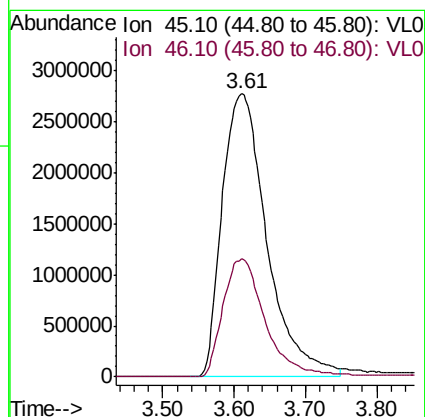
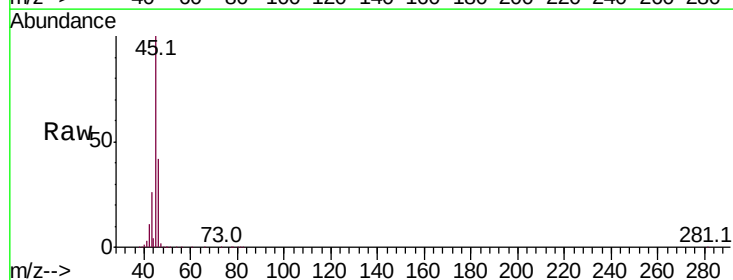
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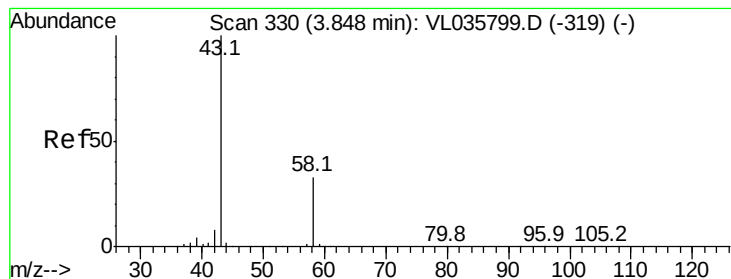
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#13
 Ethanol
 Concen: 1056.828 ppbv
 RT: 3.61 min Scan# 256
 Delta R.T. 0.00 min
 Lab File: VL036010.D
 Acq: 25 Nov 2020 1:40

Tgt Ion: 45 Resp:12082125
 Ion Ratio Lower Upper
 45 100
 46 40.2 16.1 64.5





#15

Acetone

Concen: 24.595 ppbv

RT: 3.82 min Scan# 322

Delta R.T. -0.03 min

Lab File: VL036010.D

Acq: 25 Nov 2020 1:40

Instrument :

MSVOA_L

ClientSampled :

IA1DUP

Tot Ion: 43 Resp: 3161322

Ion Ratio Lower Upper

43 100

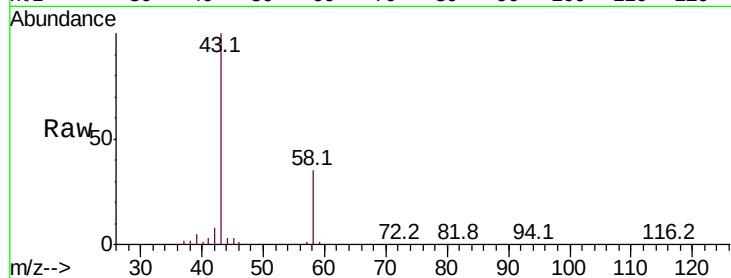
58 33.3 27.5 41.3

Manual Integrations

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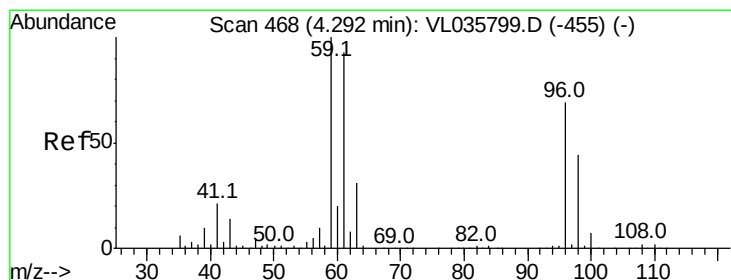
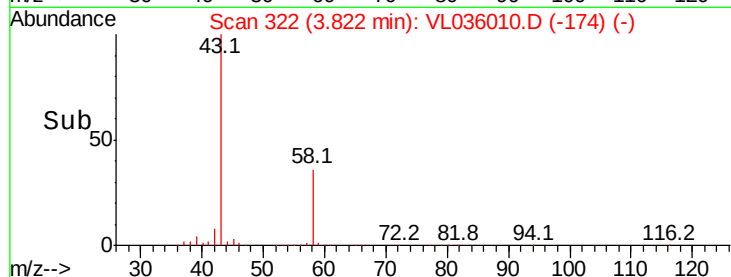
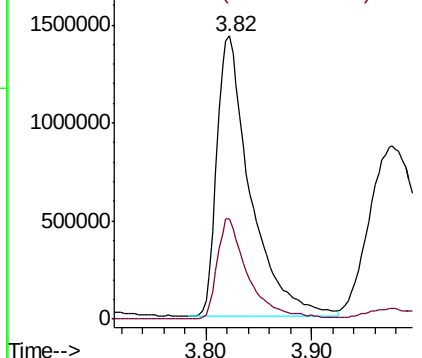
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Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0



#17

tert-Butyl alcohol

Concen: 1.149 ppbv m

RT: 4.30 min Scan# 472

Delta R.T. 0.01 min

Lab File: VL036010.D

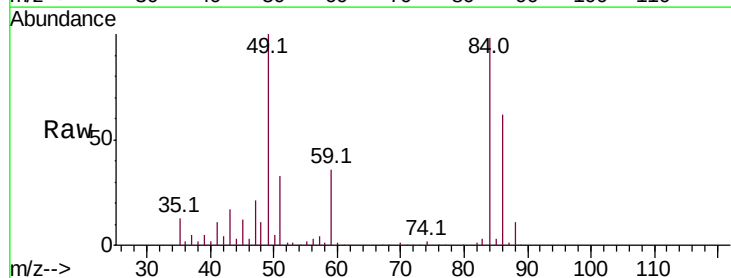
Acq: 25 Nov 2020 1:40

Tgt Ion: 59 Resp: 195673

Ion Ratio Lower Upper

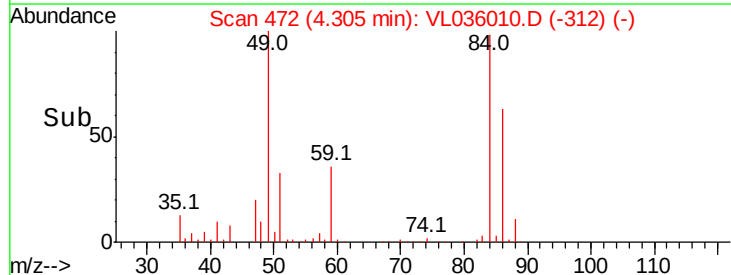
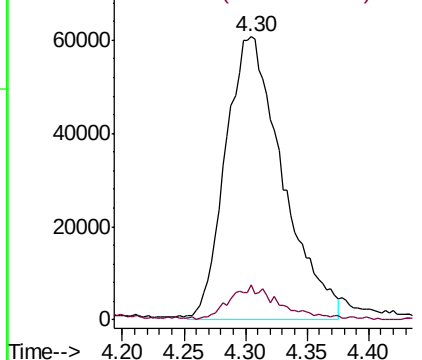
59 100

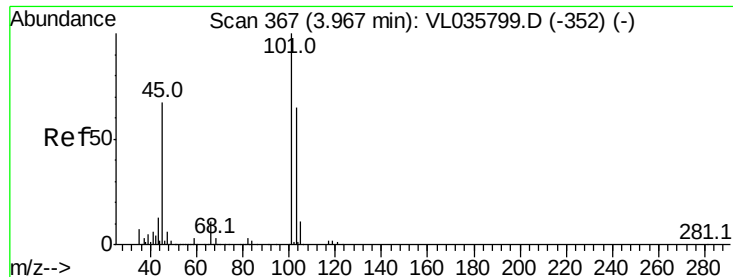
57 0.0 8.2 12.4#



Abundance Ion 59.10 (58.80 to 59.80): VL0

Ion 57.10 (56.80 to 57.80): VL0





#19

Isopropyl Alcohol

Concen: 149.152 ppbv

RT: 3.98 min Scan# 370

Delta R.T. 0.01 min

Lab File: VL036010.D

Acq: 25 Nov 2020 1:40

Instrument :

MSVOA_L

ClientSampleId :

IA1DUP

Tot Ion: 45 Resp: 11781347

Ion Ratio Lower Upper

45 100

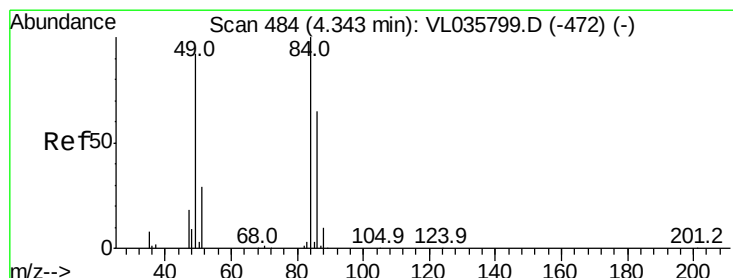
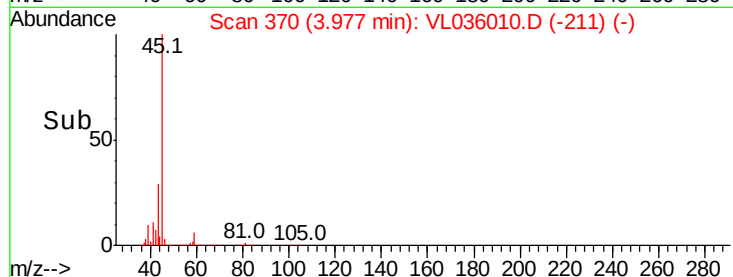
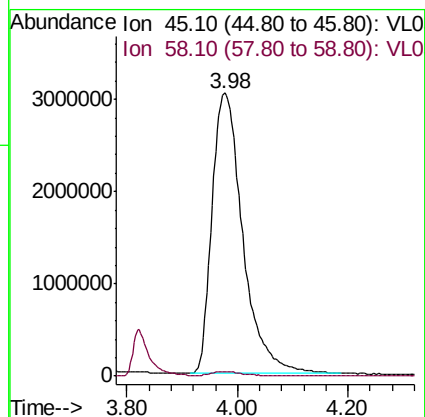
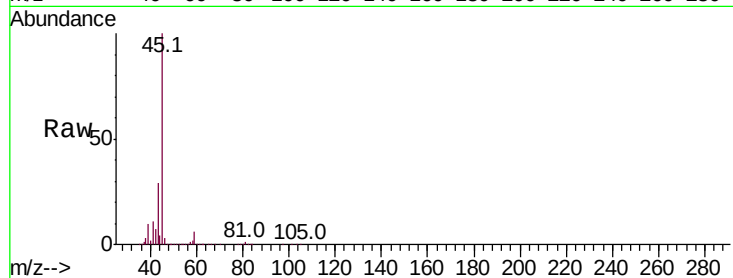
58 1.6 2.6 3.8#

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#20

Methylene Chloride

Concen: 7.960 ppbv

RT: 4.32 min Scan# 476

Delta R.T. -0.03 min

Lab File: VL036010.D

Acq: 25 Nov 2020 1:40

Tgt Ion: 84 Resp: 720242

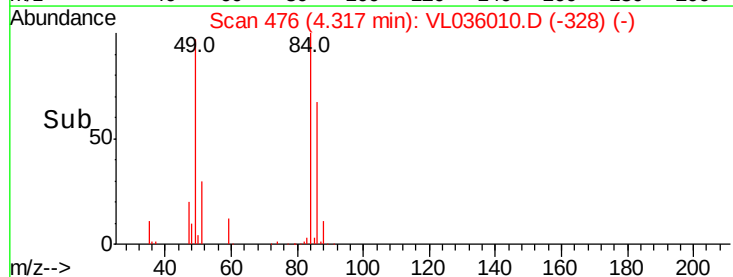
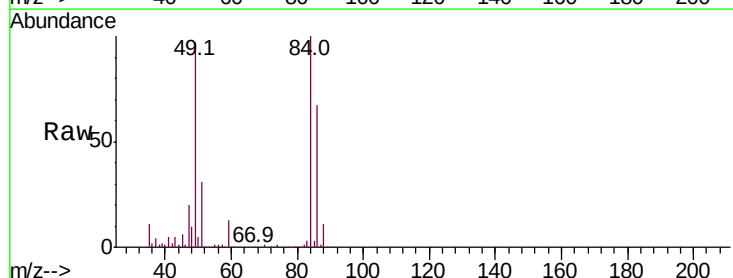
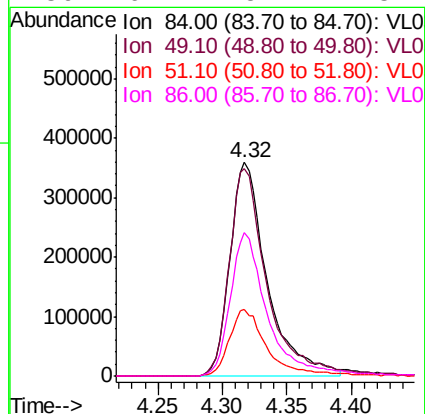
Ion Ratio Lower Upper

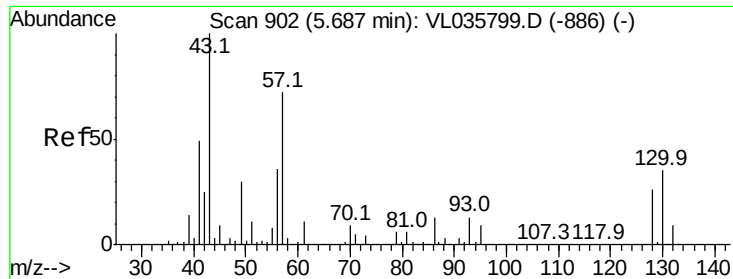
84 100

49 97.0 73.8 110.8

51 31.1 23.0 34.4

86 67.2 52.1 78.1





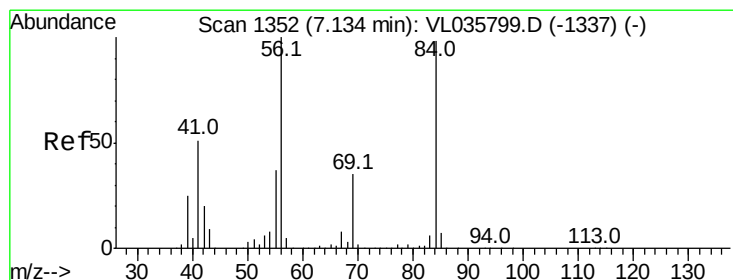
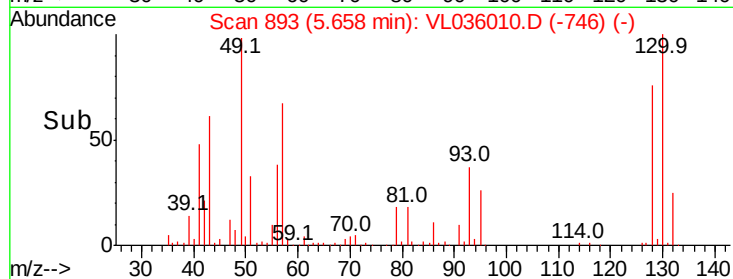
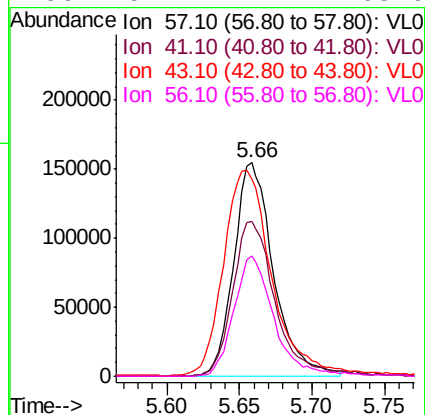
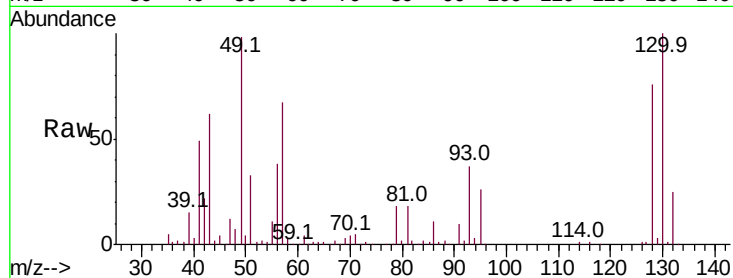
#26
Hexane
Concen: 2.105 ppbv
RT: 5.66 min Scan# 893
Delta R.T. -0.03 min
Lab File: VL036010.D
Acq: 25 Nov 2020 1:40

Instrument :
MSVOA_L
ClientSampleID :
IA1DUP

Tot Ion	Ratio	Lower	Upper
57	100		
41	79.1	58.9	88.3
43	117.4	150.2	225.2#
56	57.4	42.4	63.6

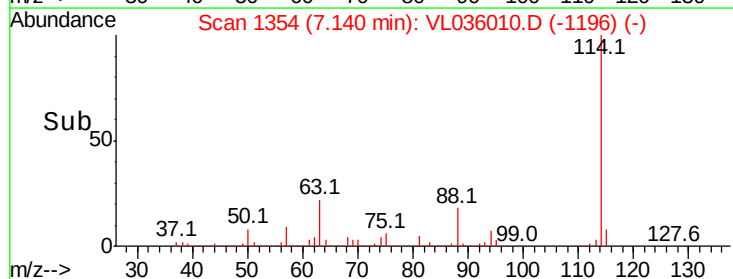
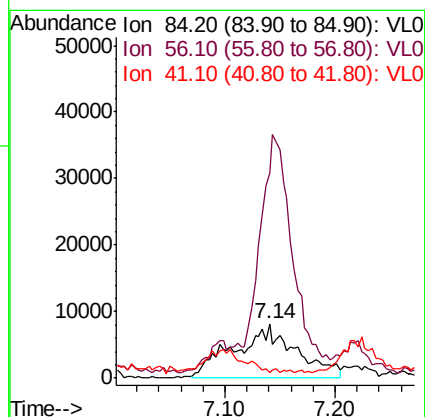
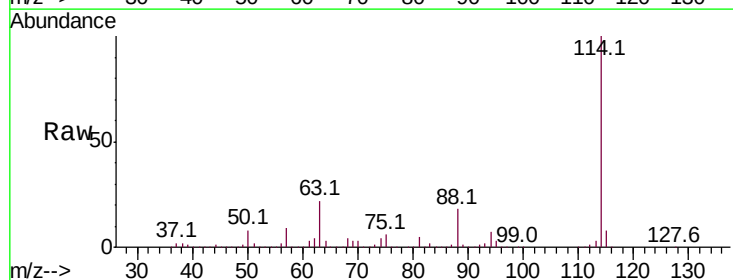
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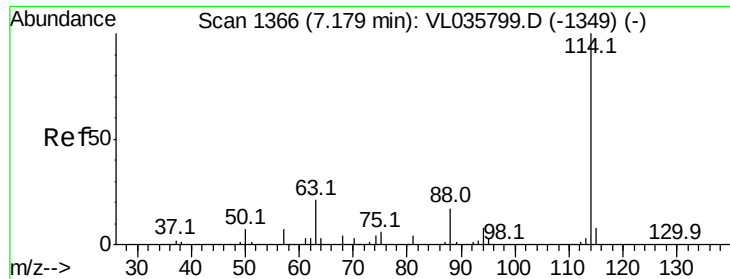
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#30
Cyclohexane
Concen: 0.206 ppbv m
RT: 7.14 min Scan# 1354
Delta R.T. 0.01 min
Lab File: VL036010.D
Acq: 25 Nov 2020 1:40

Tgt Ion	Ratio	Lower	Upper
84	100		
56	0.0	86.4	129.6#
41	0.0	42.1	63.1#





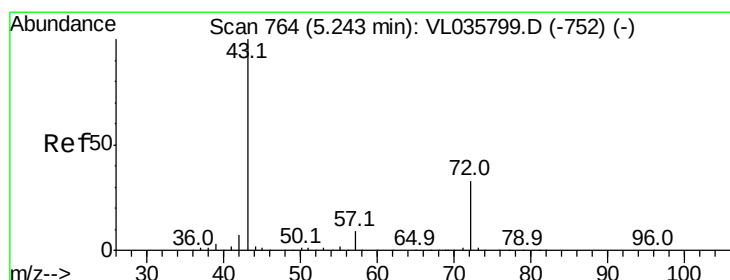
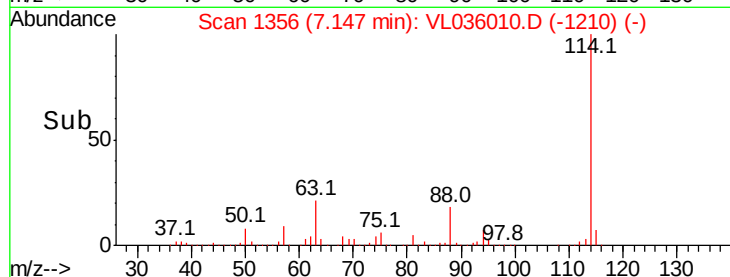
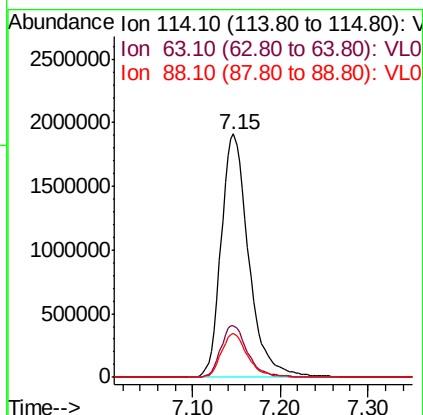
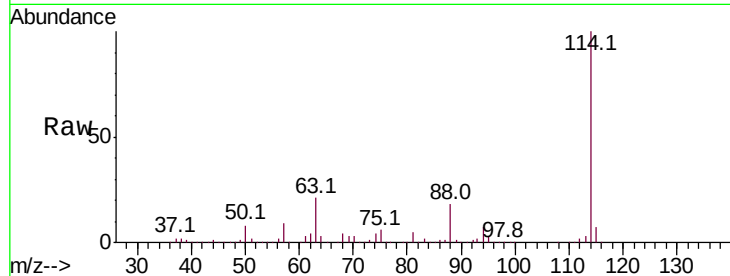
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.15 min Scan# 1356
 Delta R.T. -0.03 min
 Lab File: VL036010.D
 Acq: 25 Nov 2020 1:40

Instrument :
 MSVOA_L
 ClientSampled :
 IA1DUP

Tot Ion:114 Resp: 4187720
 Ion Ratio Lower Upper
 114 100
 63 21.0 16.1 24.1
 88 17.4 13.7 20.5

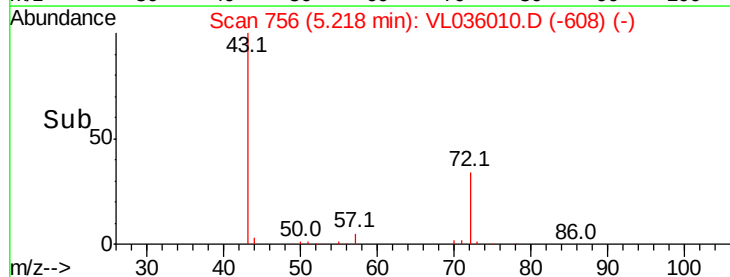
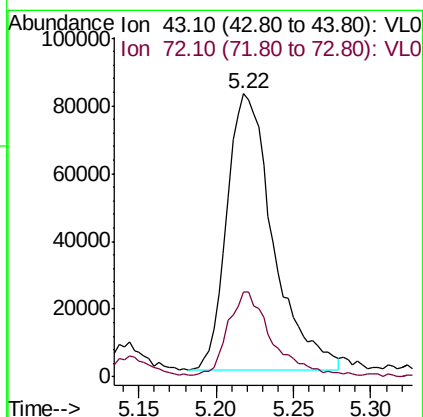
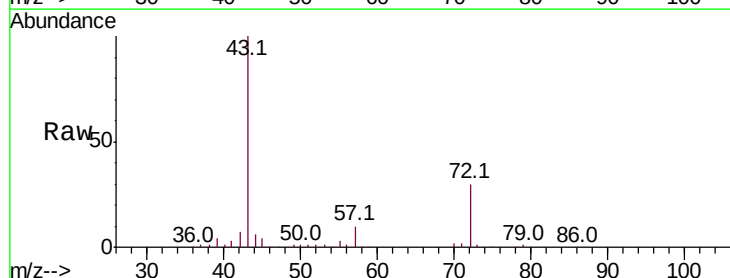
Manual Integrations
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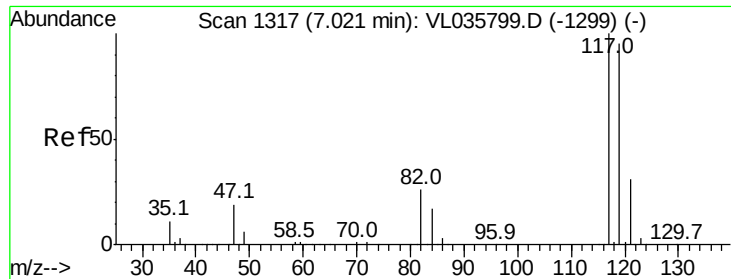
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#34
 2-Butanone
 Concen: 1.251 ppbv
 RT: 5.22 min Scan# 756
 Delta R.T. -0.03 min
 Lab File: VL036010.D
 Acq: 25 Nov 2020 1:40

Tgt Ion: 43 Resp: 169986
 Ion Ratio Lower Upper
 43 100
 72 31.1 26.5 39.7





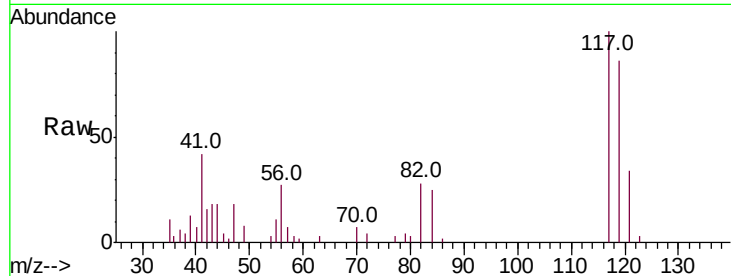
#35
Carbon Tetrachloride
Concen: 0.064 ppbv
RT: 6.99 min Scan# 1306
Delta R.T. -0.04 min
Lab File: VL036010.D
Acq: 25 Nov 2020 1:40

Instrument :
MSVOA_L
ClientSampled :
IA1DUP

Tot Ion	Ratio	Lower	Upper
117	100		
119	83.6	75.6	113.4
121	36.3	25.1	37.7

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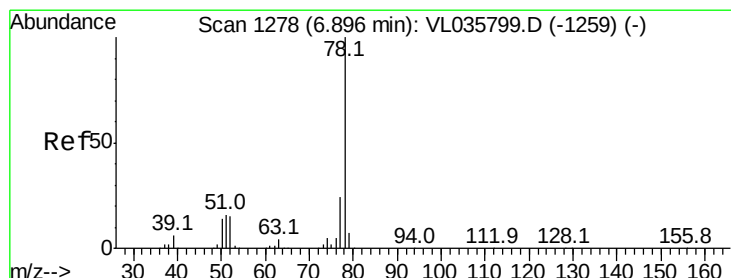
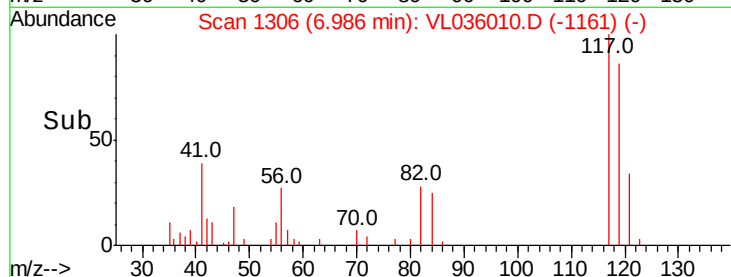
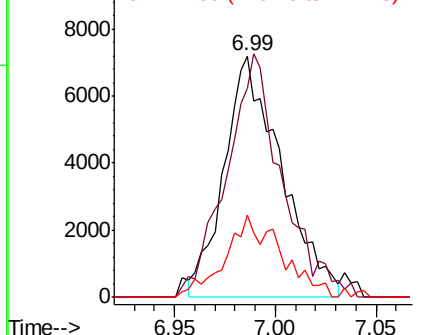


Abundance

Ion 117.00 (116.70 to 117.70): V

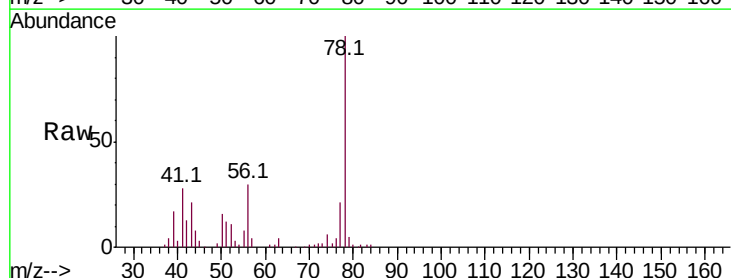
Ion 119.00 (118.70 to 119.70): V

Ion 121.00 (120.70 to 121.70): V



#36
Benzene
Concen: 0.270 ppbv
RT: 6.86 min Scan# 1268
Delta R.T. -0.03 min
Lab File: VL036010.D
Acq: 25 Nov 2020 1:40

Tgt Ion	Ratio	Lower	Upper
78	100		
77	20.7	19.3	28.9
50	13.7	11.4	17.2

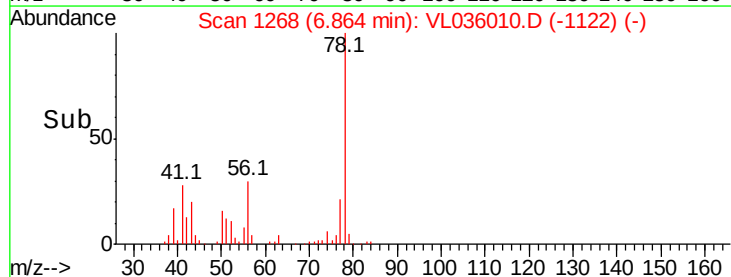
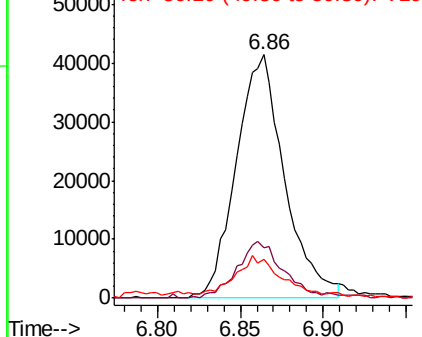


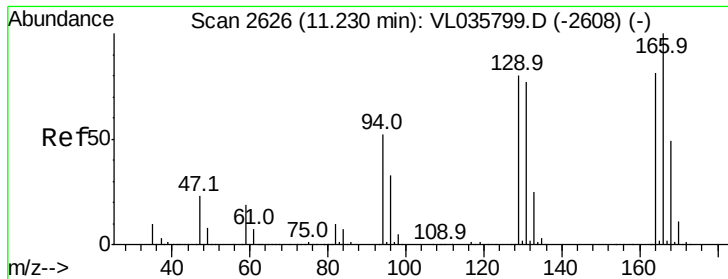
Abundance

Ion 78.10 (77.80 to 78.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

Ion 50.10 (49.80 to 50.80): VL0





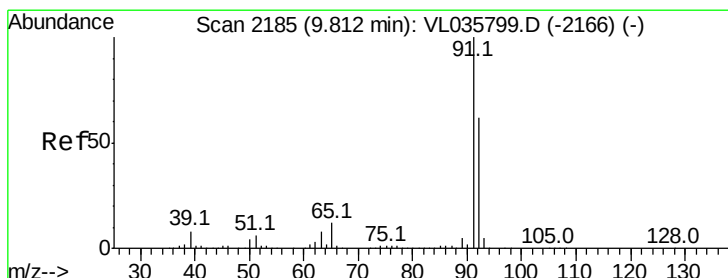
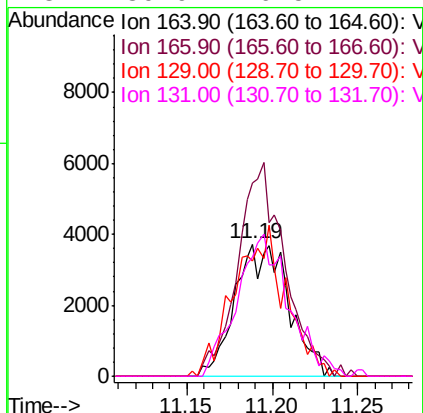
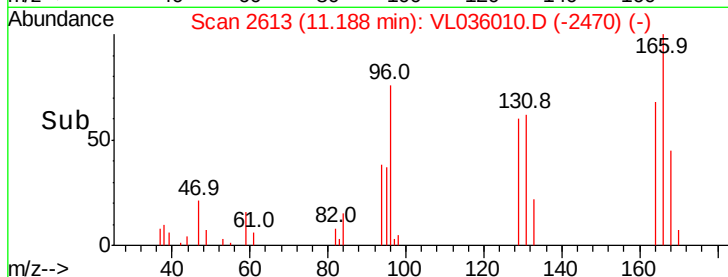
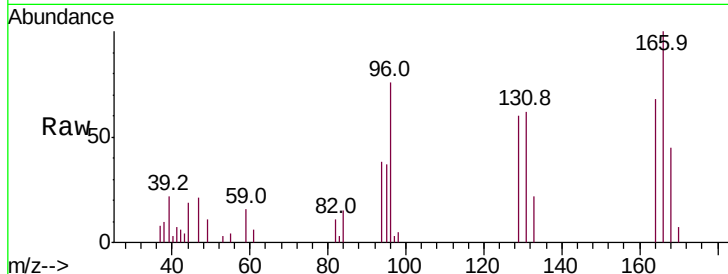
#52
Tetrachloroethene
Concen: 0.056 ppbv m
RT: 11.19 min Scan# 2613
Delta R.T. -0.04 min
Lab File: VL036010.D
Acq: 25 Nov 2020 1:40

Instrument :
MSVOA_L
ClientSampled :
IA1DUP

Tot Ion	Ratio	Lower	Upper
164	100		
166	146.0	99.3	148.9
129	86.9	79.3	118.9
131	89.9	76.5	114.7

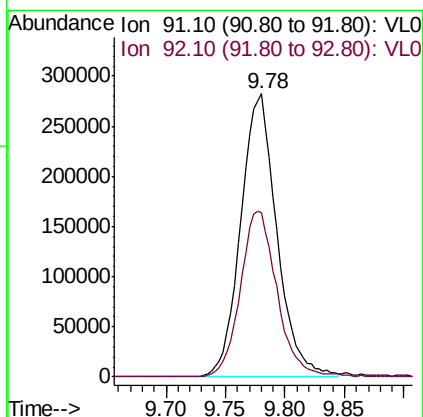
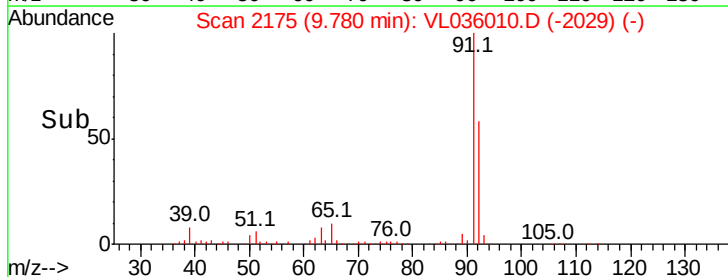
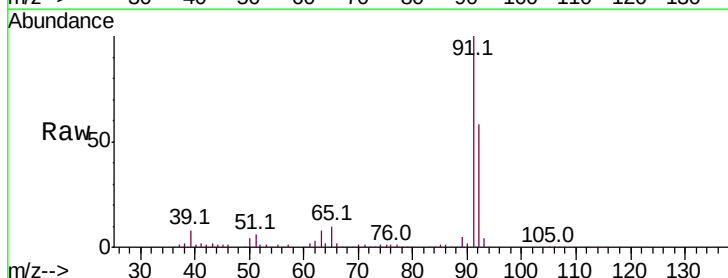
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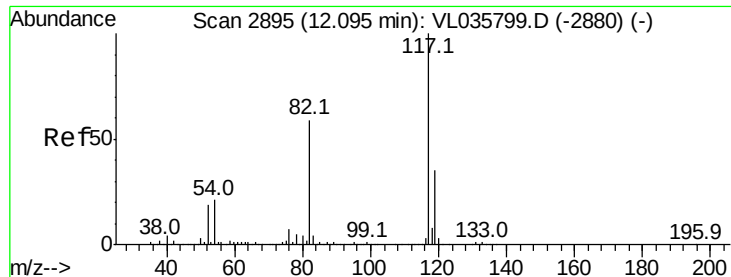
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#53
Toluene
Concen: 1.582 ppbv
RT: 9.78 min Scan# 2175
Delta R.T. -0.03 min
Lab File: VL036010.D
Acq: 25 Nov 2020 1:40

Tgt Ion	Ratio	Lower	Upper
91	100		
92	59.8	49.8	74.6





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.06 min Scan# 2883

Delta R.T. -0.04 min

Lab File: VL036010.D

Acq: 25 Nov 2020 1:40

Instrument :

MSVOA_L

ClientSampleId :

IA1DUP

Tot Ion:117 Resp: 3923115

Ion Ratio Lower Upper

117 100

82 61.3 50.6 76.0

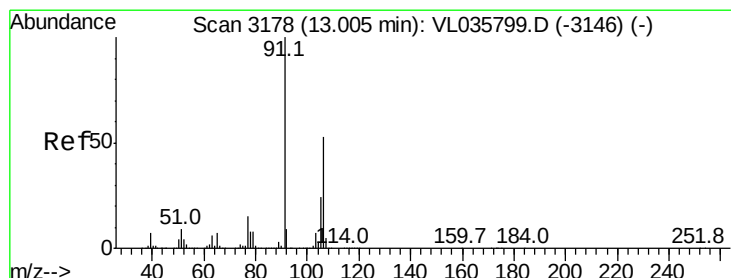
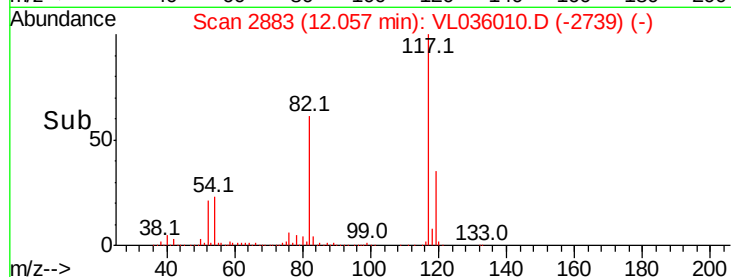
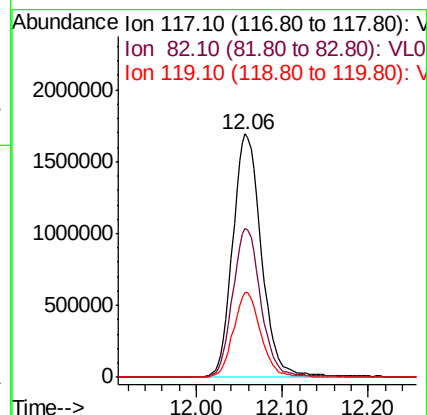
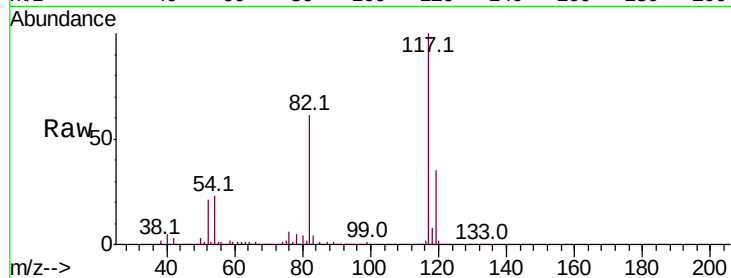
119 33.9 52.6 78.8#

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#59

m/p-Xylene

Concen: 0.297 ppbv

RT: 12.94 min Scan# 3157

Delta R.T. -0.07 min

Lab File: VL036010.D

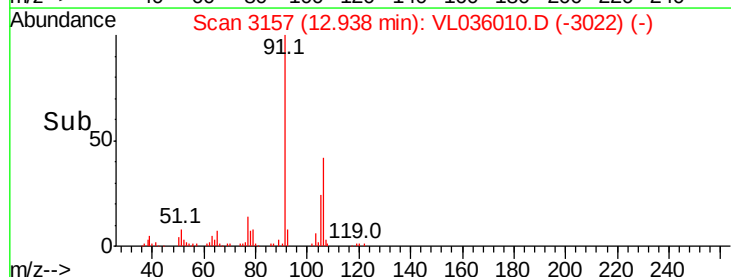
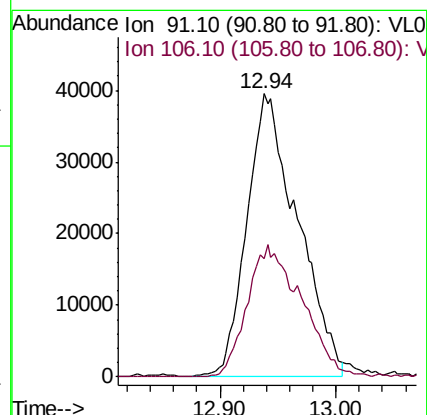
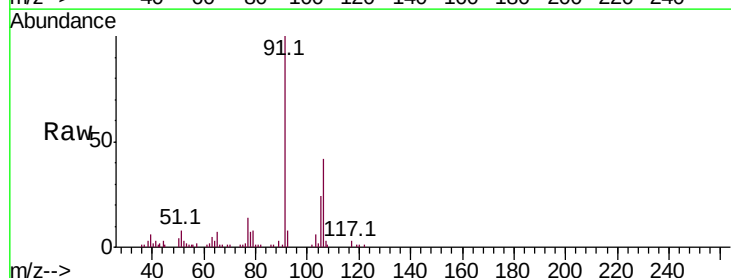
Acq: 25 Nov 2020 1:40

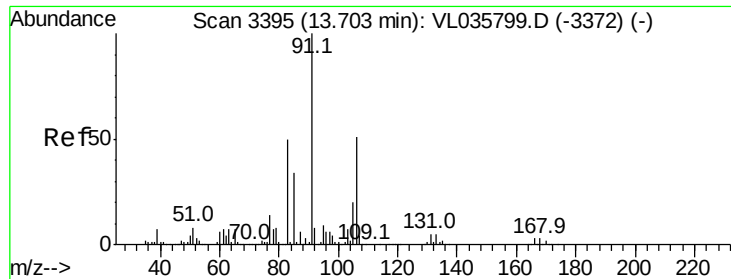
Tgt Ion: 91 Resp: 120238

Ion Ratio Lower Upper

91 100

106 50.2 39.5 59.3





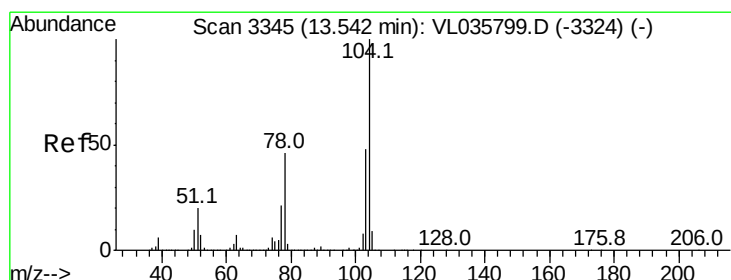
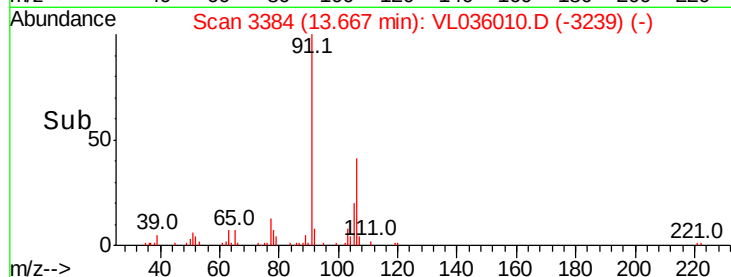
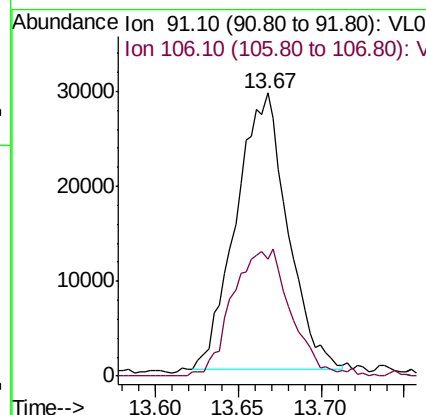
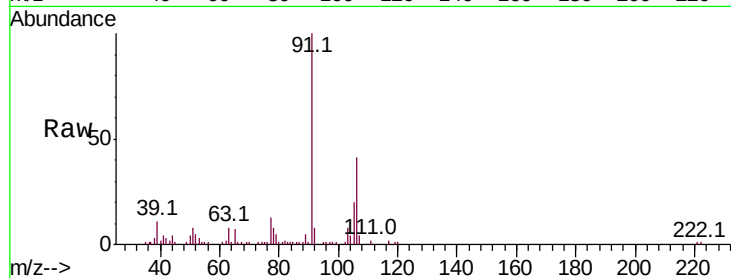
#60
o-Xylene
Concen: 0.161 ppbv
RT: 13.67 min Scan# 3384
Delta R.T. -0.04 min
Lab File: VL036010.D
Acq: 25 Nov 2020 1:40

Instrument :
MSVOA_L
ClientSampled :
IA1DUP

Tot Ion	Ratio	Lower	Upper
91	100		
106	51.9	24.8	74.4

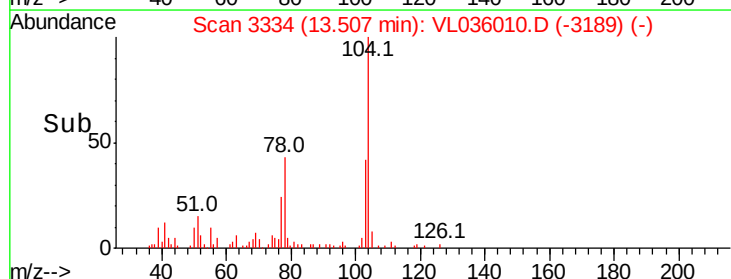
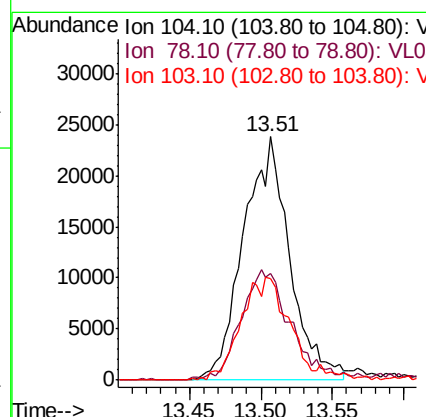
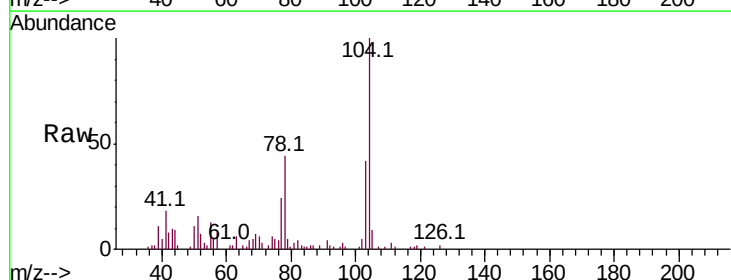
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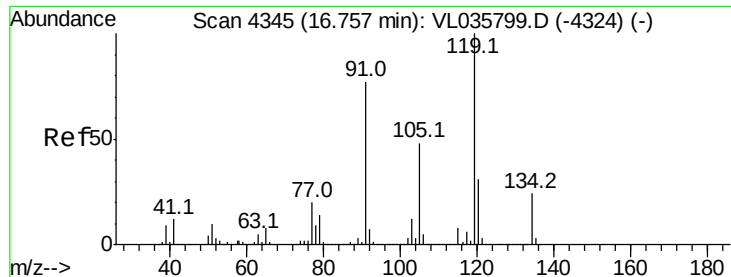
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#61
Styrene
Concen: 0.185 ppbv m
RT: 13.51 min Scan# 3334
Delta R.T. -0.04 min
Lab File: VL036010.D
Acq: 25 Nov 2020 1:40

Tgt Ion	Ratio	Lower	Upper
104	100		
78	48.5	37.1	55.7
103	0.0	37.9	56.9#





#65

tert-Butylbenzene

Concen: 0.160 ppbv

RT: 16.73 min Scan# 4338

Delta R.T. -0.02 min

Lab File: VL036010.D

Acq: 25 Nov 2020 1:40

Instrument :

MSVOA_L

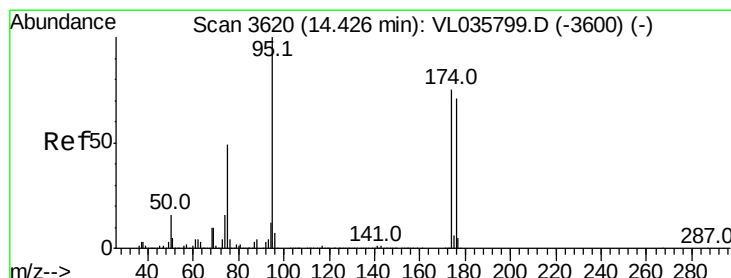
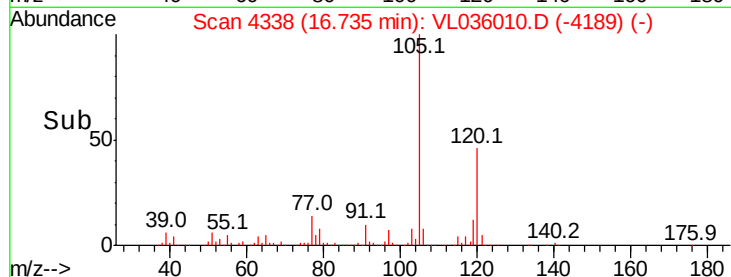
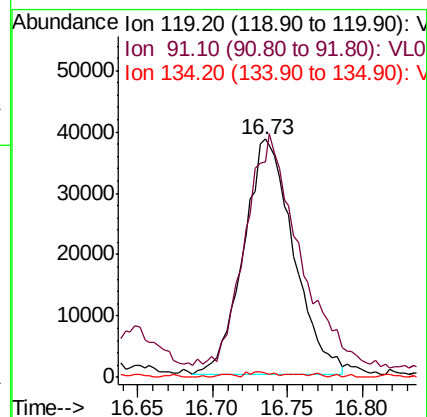
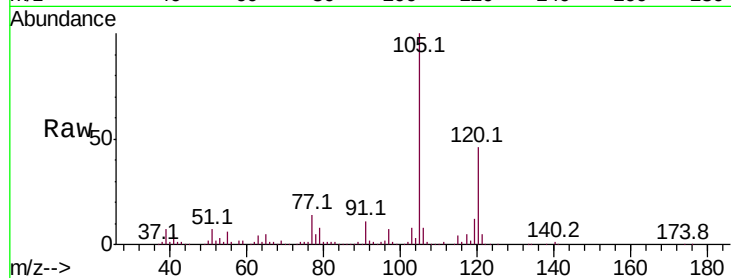
ClientSampled :

IA1DUP

Tot Ion:	119	Resp:	90092
Ion Ratio	Lower	Upper	
119	100		
91	119.5	62.0	93.0#
134	2.4	17.8	26.8#

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#68

1-Bromo-4-Fluorobenzene

Concen: 11.065 ppbv

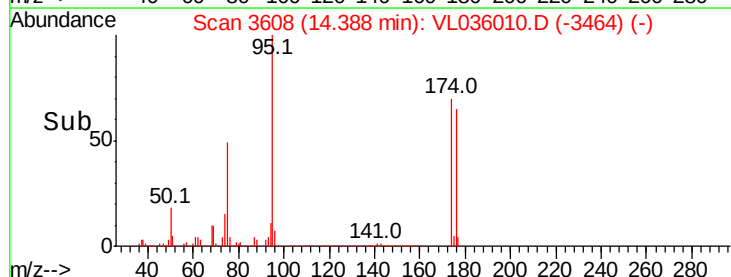
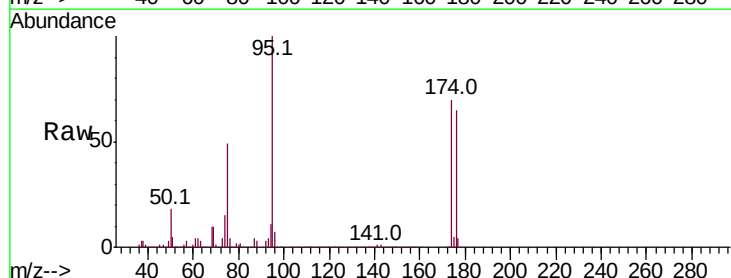
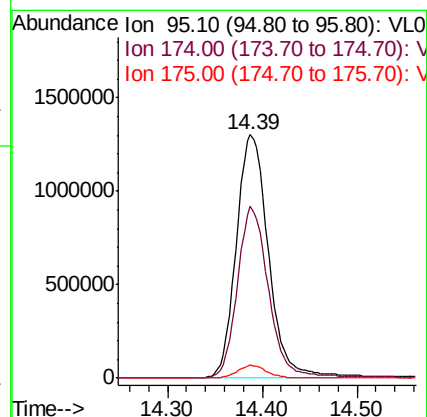
RT: 14.39 min Scan# 3608

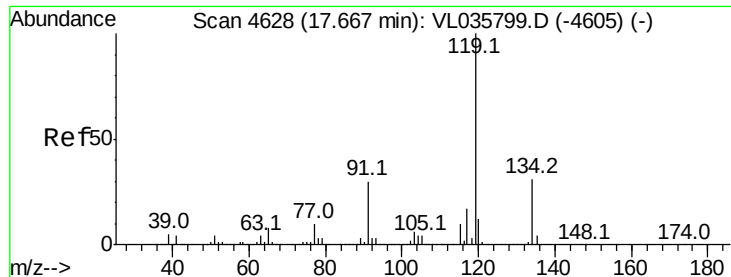
Delta R.T. -0.04 min

Lab File: VL036010.D

Acq: 25 Nov 2020 1:40

Tgt Ion:	95	Resp:	3084243
Ion Ratio	Lower	Upper	
95	100		
174	69.4	59.8	89.6
175	4.9	4.3	6.5





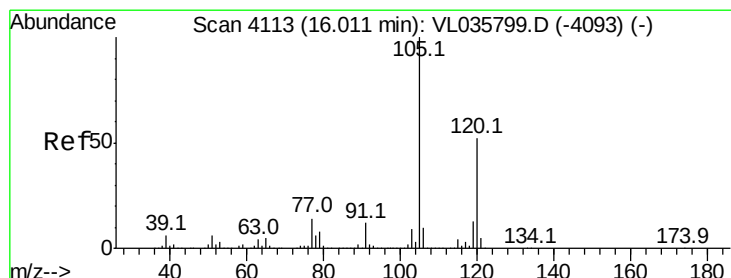
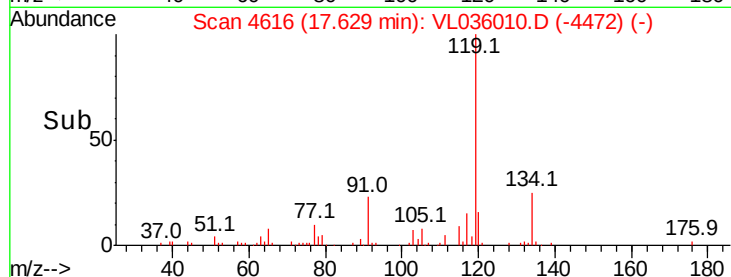
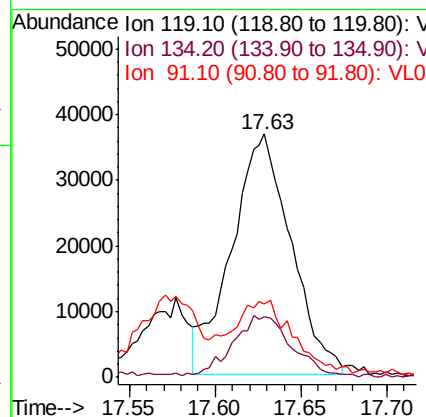
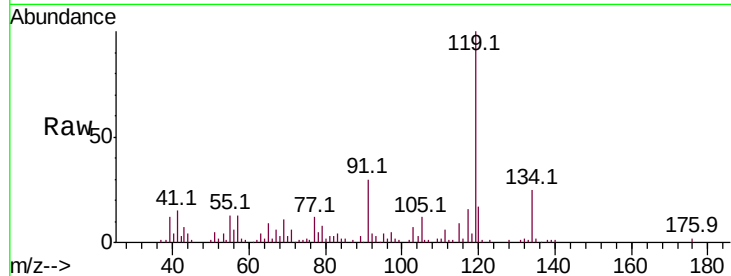
#69
 p-Isopropyltoluene
 Concen: 0.141 ppbv
 RT: 17.63 min Scan# 4616
 Delta R.T. -0.04 min
 Lab File: VL036010.D
 Acq: 25 Nov 2020 1:40

Instrument :
 MSVOA_L
 ClientSampled :
 IA1DUP

Tot Ion	Ratio	Resp	Lower	Upper
119	100			
134	26.9	23.0	34.6	
91	30.8	22.8	34.2	

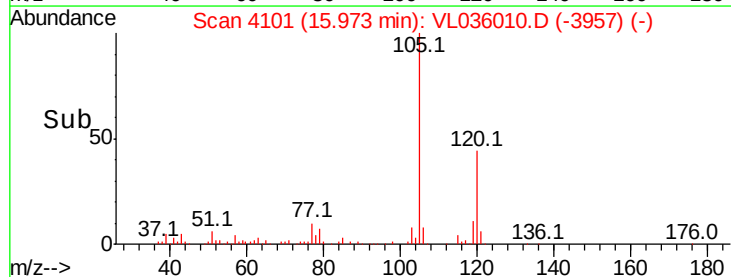
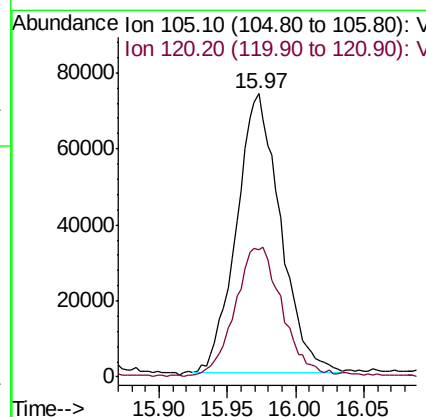
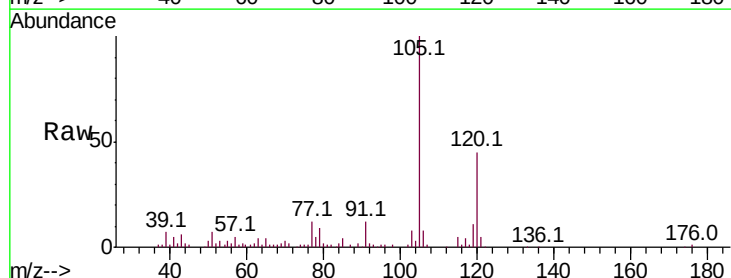
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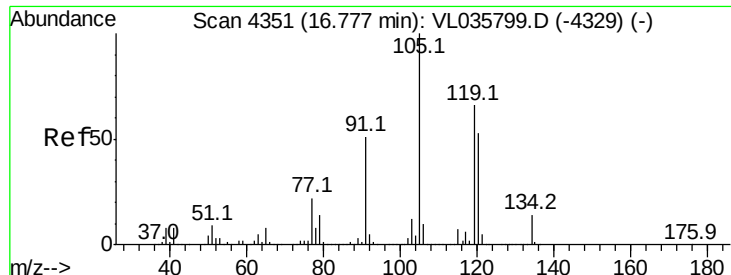
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#73
 1,3,5-Trimethylbenzene
 Concen: 0.376 ppbv
 RT: 15.97 min Scan# 4101
 Delta R.T. -0.04 min
 Lab File: VL036010.D
 Acq: 25 Nov 2020 1:40

Tgt Ion	Ratio	Resp	Lower	Upper
105	100			
120	44.7	41.4	62.2	





#74
 1,2,4-Trimethylbenzene
 Concen: 1.624 ppbv
 RT: 16.73 min Scan# 4338
 Delta R.T. -0.04 min
 Lab File: VL036010.D
 Acq: 25 Nov 2020 1:40

Instrument :
 MSVOA_L
 ClientSampleID :
 IA1DUP

Tot Ion	Ratio	Resp Lower	Resp Upper
105	100		
120	45.8	42.0	63.0
91	10.0	41.0	61.6#
77	13.3	17.3	25.9#

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