

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL112420\
 Data File : VL036021.D
 Acq On : 25 Nov 2020 8:38
 Operator : SY/AP
 Sample : L4843-03 4X
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SVP-03

Manual Integrations
 APPROVED

MMDadoda
 11/27/2020 1:17:32 PM

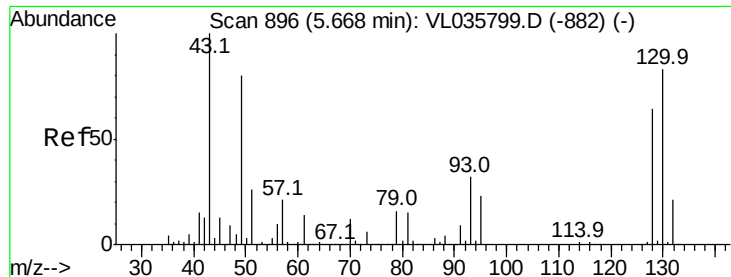
Quant Time: Nov 26 14:39:15 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL110320AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed Nov 04
 QLast Update : Wed Nov 04 02:40:06 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.64	49	1173655	10.00	ppbv	-0.03
33) 1,4-Difluorobenzene	7.15	114	4569754	10.00	ppbv	-0.03
55) Chlorobenzene-d5	12.06	117	4366427	10.00	ppbv	-0.04

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.39	95	3273434	10.55	ppbv	-0.04
Spiked Amount	10.000	Range	65 - 135	Recovery	=	105.50%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.03	85	15801	0.072	ppbv	98
3) Chlorodifluoromethane	2.97	51	17242	0.123	ppbv	96
4) Chloromethane	3.12	50	17127	0.251	ppbv	95
7) Chloroethane	3.54	64	9264	0.302	ppbv	99
9) Propene	3.00	41	4627153m	89.948	ppbv	
10) Heptane	8.10	43	1853626	13.046	ppbv	100
13) Ethanol	3.60	45	20262m	1.816	ppbv	
20) Methylene Chloride	4.32	84	402584	4.558	ppbv	98
26) Hexane	5.67	57	5220905	38.299	ppbv #	46
27) Carbon Disulfide	4.53	76	368918	1.806	ppbv	99
30) Cyclohexane	7.11	84	447262	3.012	ppbv	82
34) 2-Butanone	5.23	43	152445	1.028	ppbv	91
36) Benzene	6.87	78	223339	0.657	ppbv	95
52) Tetrachloroethene	11.19	164	6522m	0.041	ppbv	
53) Toluene	9.78	91	154950	0.378	ppbv	100
59) m/p-Xylene	12.94	91	56710m	0.126	ppbv	
74) 1,2,4-Trimethylbenzene	16.74	105	72785m	0.140	ppbv	

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



#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.64 min Scan# 887

Delta R.T. -0.03 min

Lab File: VL036021.D

Acq: 25 Nov 2020 8:38

Instrument :

MSVOA_L

ClientSampled :

SVP-03

Tot Ion: 49 Resp: 1173655

Ion Ratio Lower Upper

49 100

128 79.4 41.5 124.6

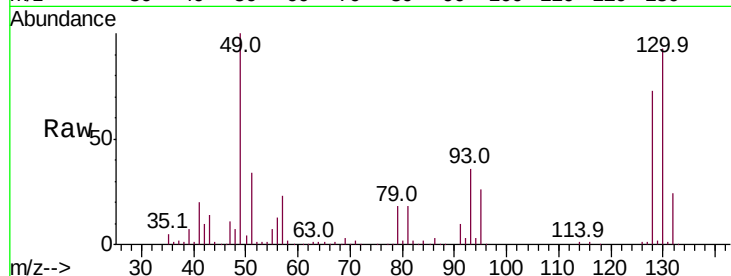
130 100.8 53.7 161.1

Manual Integrations

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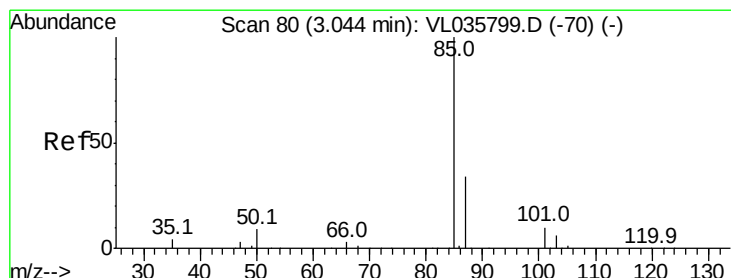
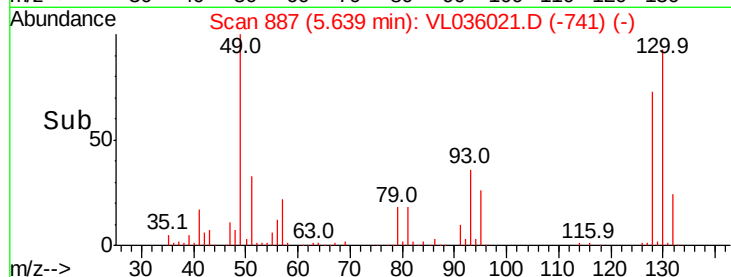
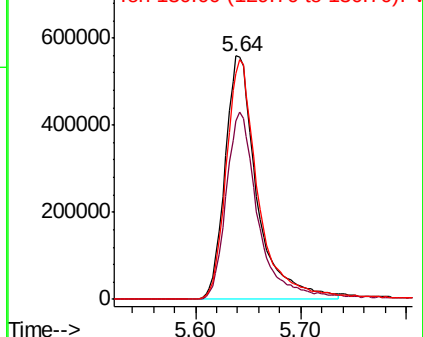
11/27/2020 1:17:32 PM



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



#2

Dichlorodifluoromethane

Concen: 0.072 ppbv

RT: 3.03 min Scan# 75

Delta R.T. -0.02 min

Lab File: VL036021.D

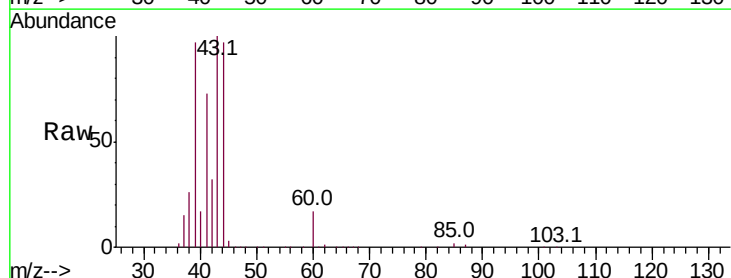
Acq: 25 Nov 2020 8:38

Tgt Ion: 85 Resp: 15801

Ion Ratio Lower Upper

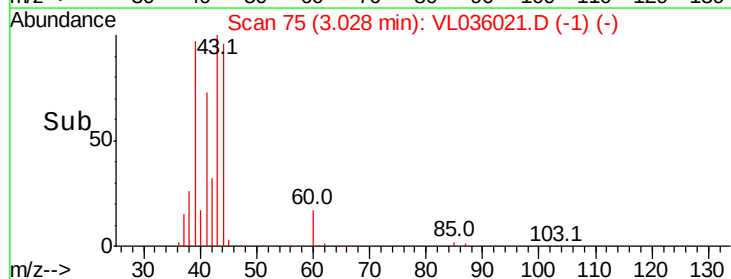
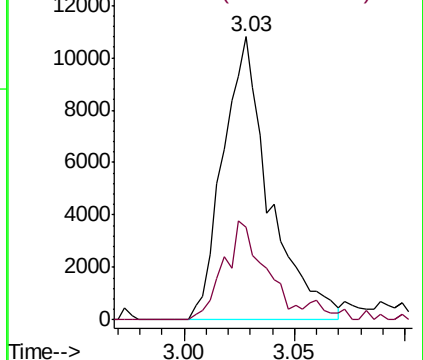
85 100

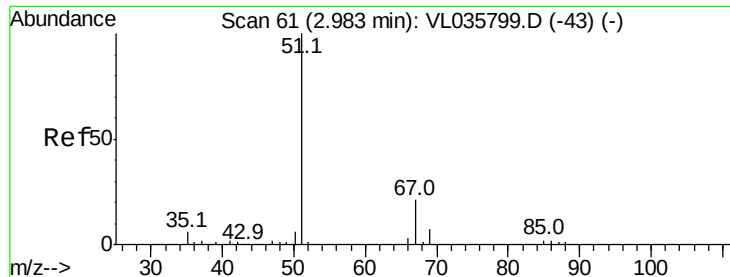
87 33.0 27.1 40.7



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.123 ppbv

RT: 2.97 min Scan# 56

Delta R.T. -0.02 min

Lab File: VL036021.D

Acq: 25 Nov 2020 8:38

Instrument :

MSVOA_L

ClientSampleId :

SVP-03

Tot Ion: 51 Resp: 17242

Ion Ratio Lower Upper

51 100

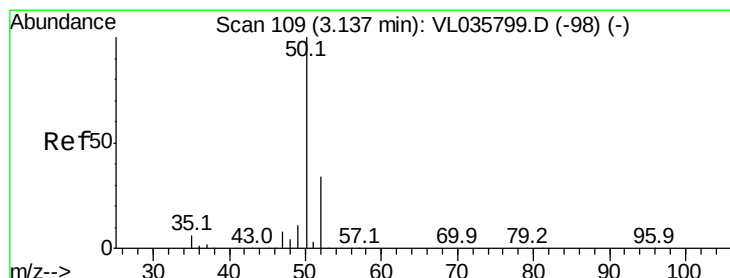
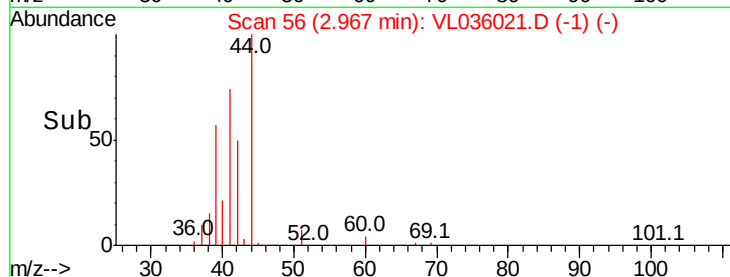
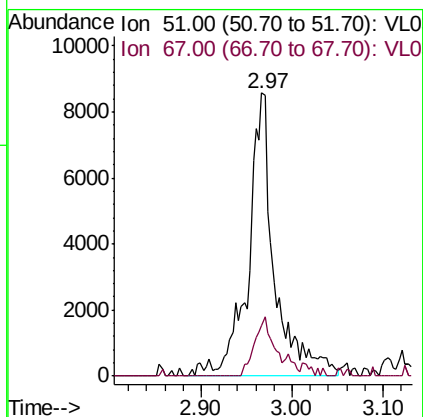
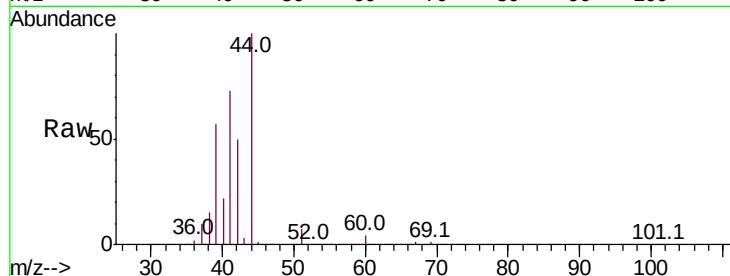
67 19.1 17.0 25.4

Manual Integrations

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#4

Chloromethane

Concen: 0.251 ppbv

RT: 3.12 min Scan# 104

Delta R.T. -0.02 min

Lab File: VL036021.D

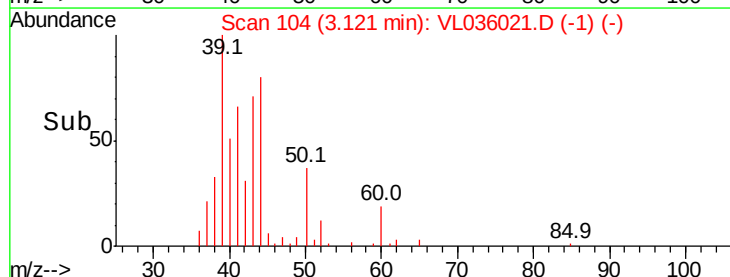
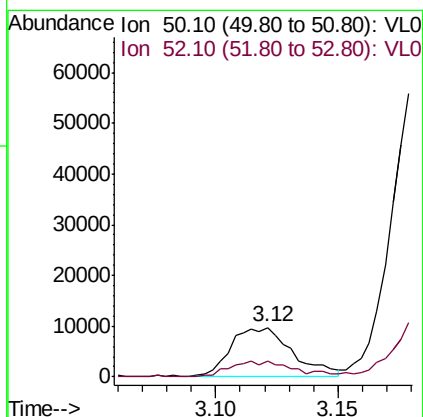
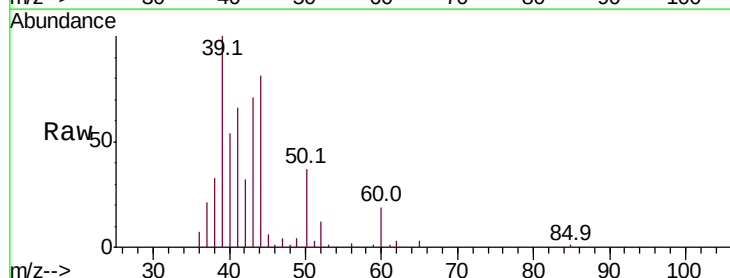
Acq: 25 Nov 2020 8:38

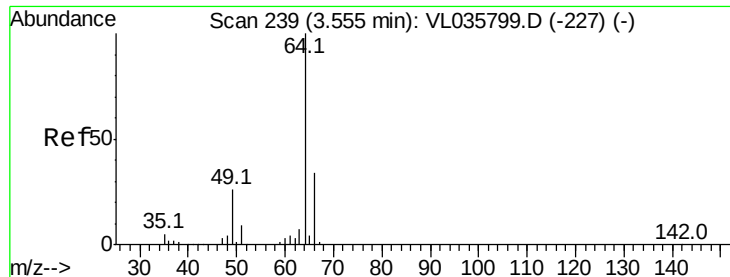
Tgt Ion: 50 Resp: 17127

Ion Ratio Lower Upper

50 100

52 31.0 27.1 40.7





#7

Chloroethane

Concen: 0.302 ppbv

RT: 3.54 min Scan# 233

Delta R.T. -0.02 min

Lab File: VL036021.D

Acq: 25 Nov 2020 8:38

Instrument :

MSVOA_L

ClientSampled :

SVP-03

Tot Ion: 64 Resp: 9264

Ion Ratio Lower Upper

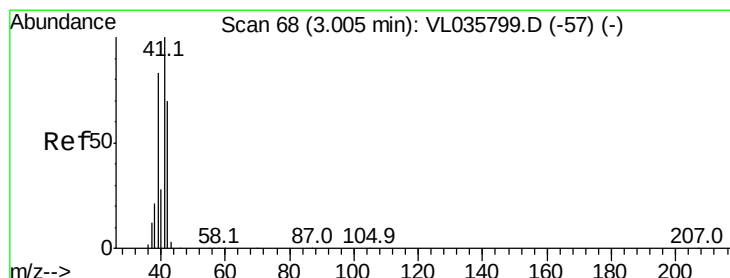
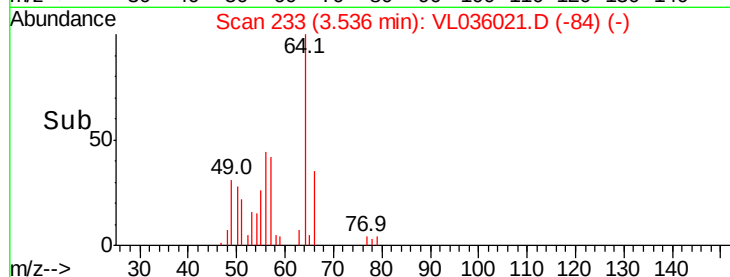
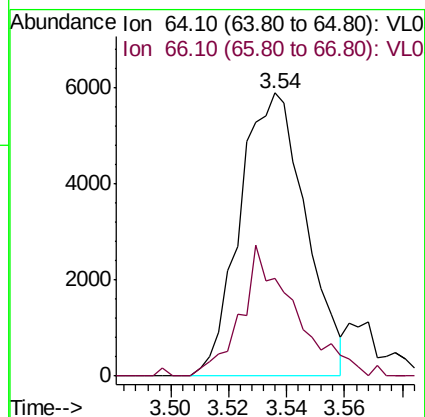
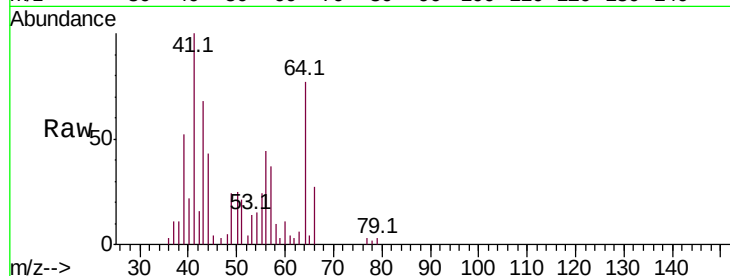
64 100

66 34.5 27.0 40.6

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#9

Propene

Concen: 89.948 ppbv m

RT: 3.00 min Scan# 65

Delta R.T. -0.01 min

Lab File: VL036021.D

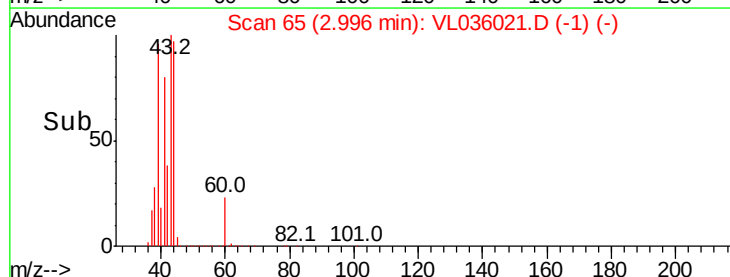
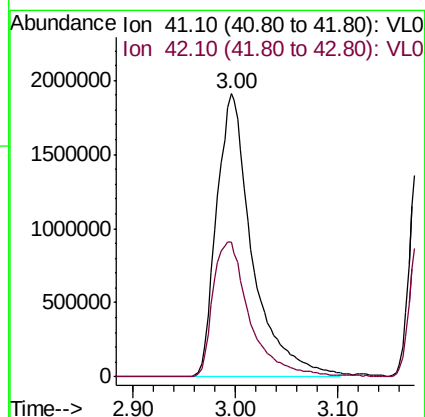
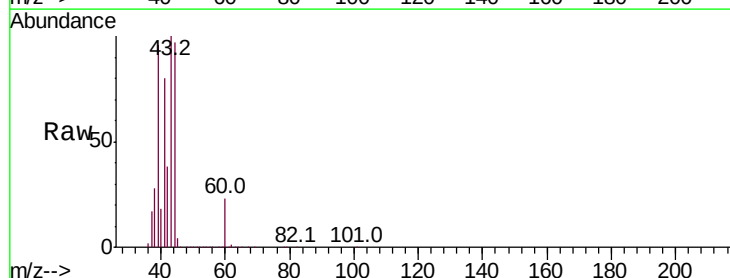
Acq: 25 Nov 2020 8:38

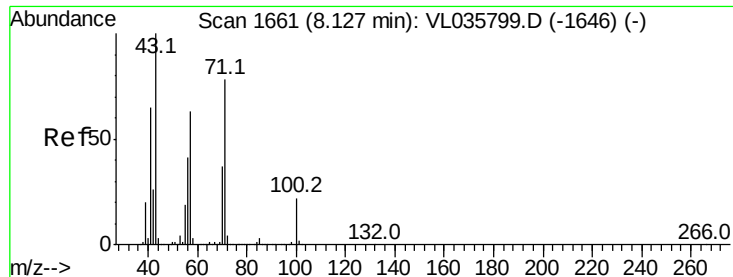
Tgt Ion: 41 Resp: 4627153

Ion Ratio Lower Upper

41 100

42 45.4 56.2 84.4#





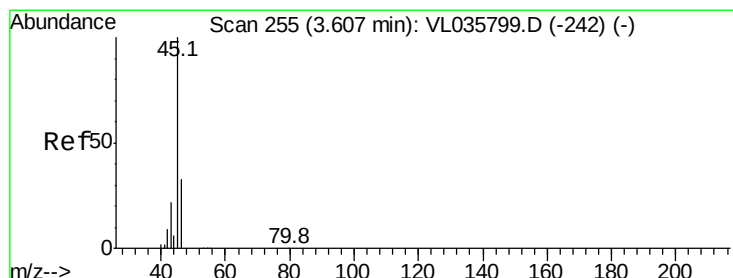
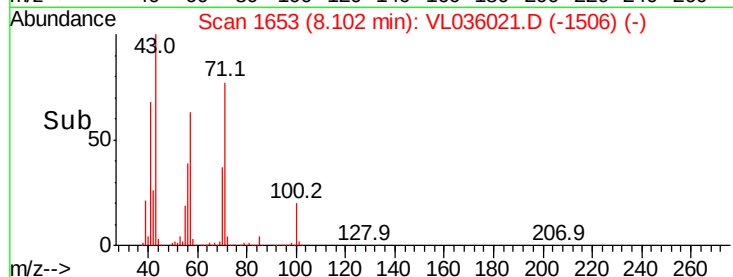
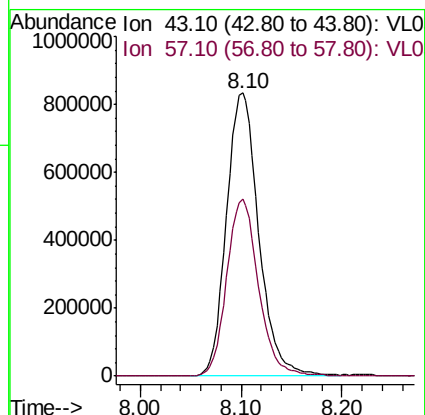
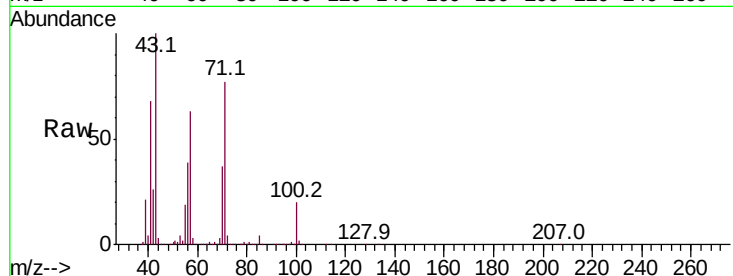
#10
Heptane
Concen: 13.046 ppbv
RT: 8.10 min Scan# 1653
Delta R.T. -0.03 min
Lab File: VL036021.D
Acq: 25 Nov 2020 8:38

Instrument :
MSVOA_L
ClientSampled :
SVP-03

Tot Ion: 43 Resp: 1853626
Ion Ratio Lower Upper
43 100
57 62.3 50.0 75.0

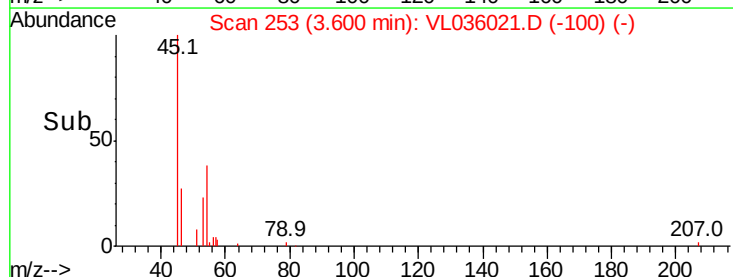
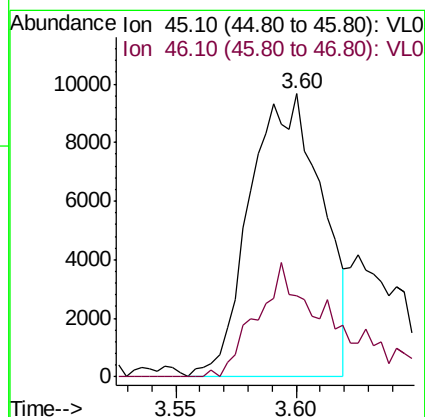
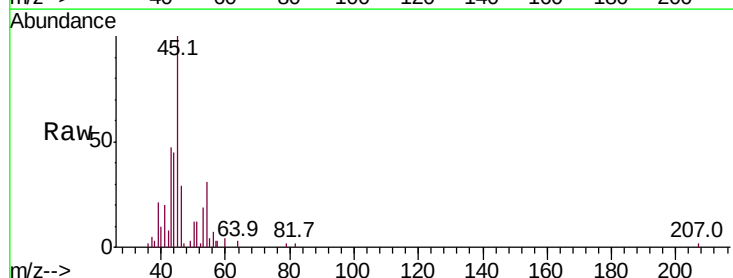
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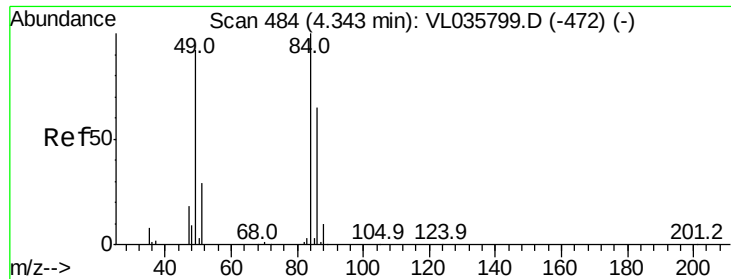
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#13
Ethanol
Concen: 1.816 ppbv m
RT: 3.60 min Scan# 253
Delta R.T. -0.01 min
Lab File: VL036021.D
Acq: 25 Nov 2020 8:38

Tgt Ion: 45 Resp: 20262
Ion Ratio Lower Upper
45 100
46 44.8 16.1 64.5





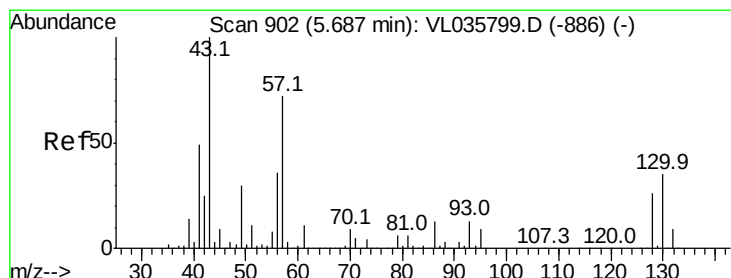
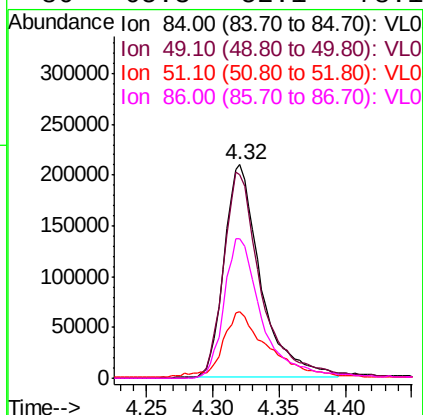
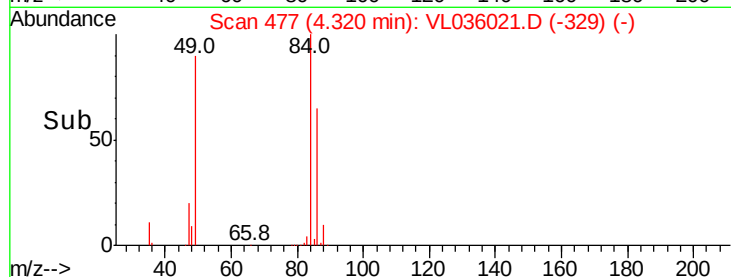
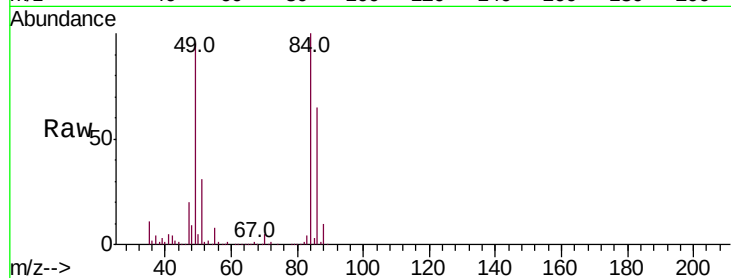
#20
Methvlene Chloride
Concen: 4.558 ppbv
RT: 4.32 min Scan# 477
Delta R.T. -0.02 min
Lab File: VL036021.D
Acq: 25 Nov 2020 8:38

Instrument :
MSVOA_L
ClientSampled :
SVP-03

Tot Ion	Ratio	Lower	Upper
84	100		
49	95.1	73.8	110.8
51	30.0	23.0	34.4
86	65.3	52.1	78.1

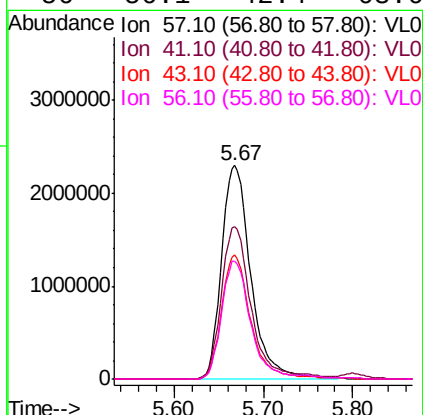
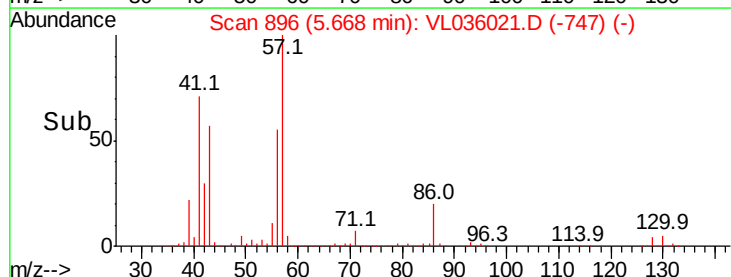
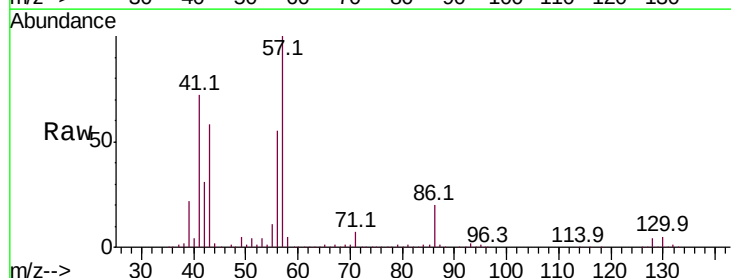
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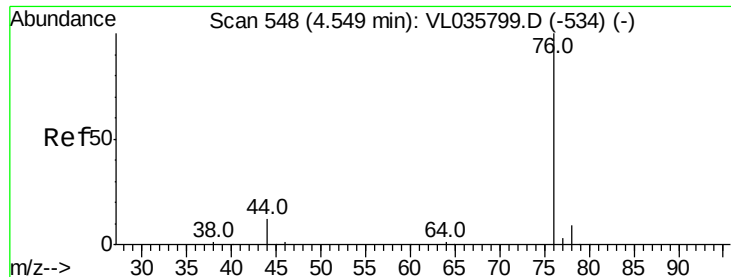
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#26
Hexane
Concen: 38.299 ppbv
RT: 5.67 min Scan# 896
Delta R.T. -0.02 min
Lab File: VL036021.D
Acq: 25 Nov 2020 8:38

Tgt Ion	Ratio	Lower	Upper
57	100		
41	73.1	58.9	88.3
43	58.0	150.2	225.2#
56	56.1	42.4	63.6





#27

Carbon Disulfide

Concen: 1.806 ppbv

RT: 4.53 min Scan# 542

Delta R.T. -0.02 min

Lab File: VL036021.D

Acq: 25 Nov 2020 8:38

Instrument :

MSVOA_L

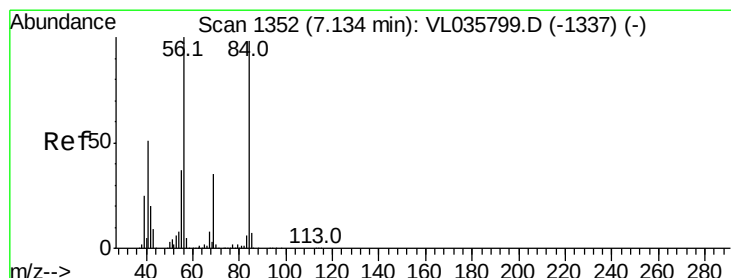
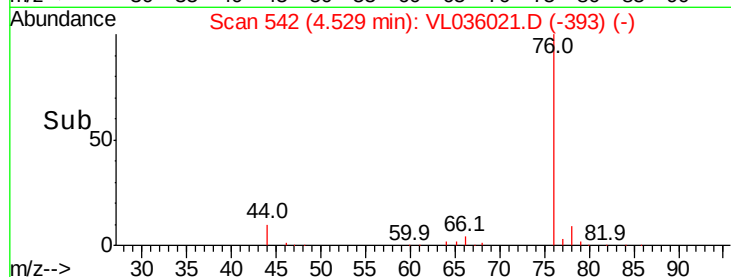
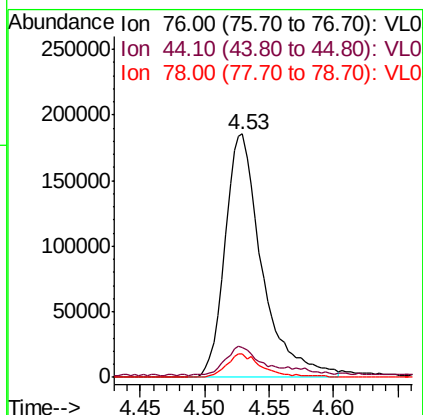
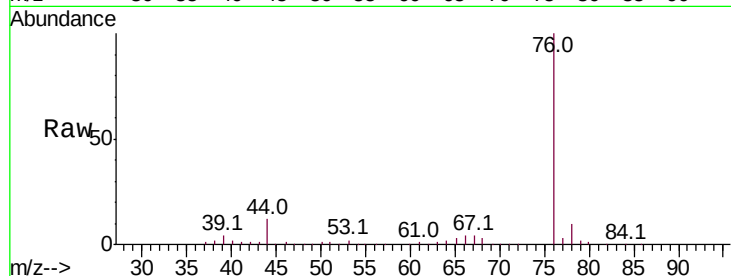
ClientSampleId :

SVP-03

Tot Ion:	76	Resp:	368918
Ion Ratio	Lower	Upper	
76	100		
44	13.3	9.9	14.9
78	10.0	8.1	12.1

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#30

Cyclohexane

Concen: 3.012 ppbv

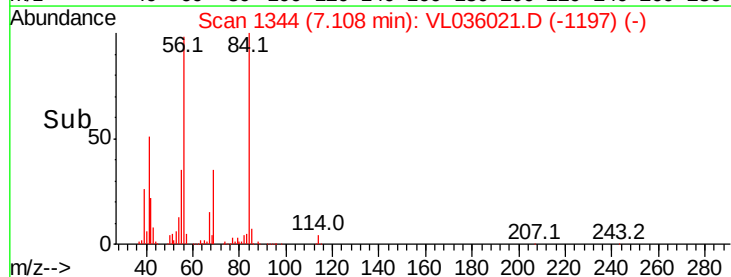
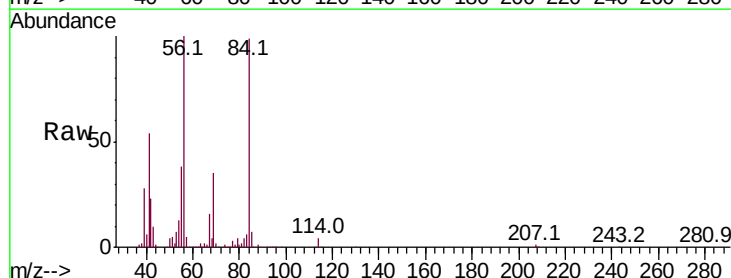
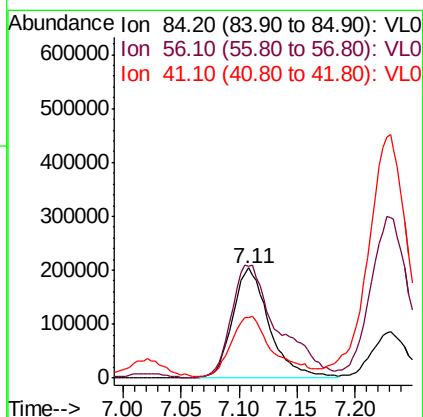
RT: 7.11 min Scan# 1344

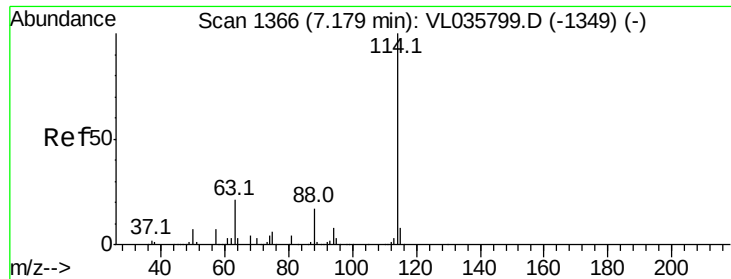
Delta R.T. -0.03 min

Lab File: VL036021.D

Acq: 25 Nov 2020 8:38

Tgt Ion:	84	Resp:	447262
Ion Ratio	Lower	Upper	
84	100		
56	128.4	86.4	129.6
41	62.8	42.1	63.1





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.15 min Scan# 1357

Delta R.T. -0.03 min

Lab File: VL036021.D

Acq: 25 Nov 2020 8:38

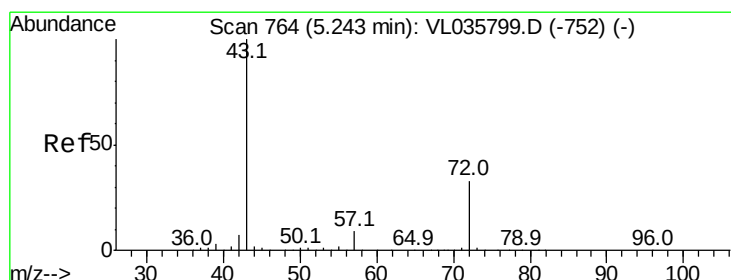
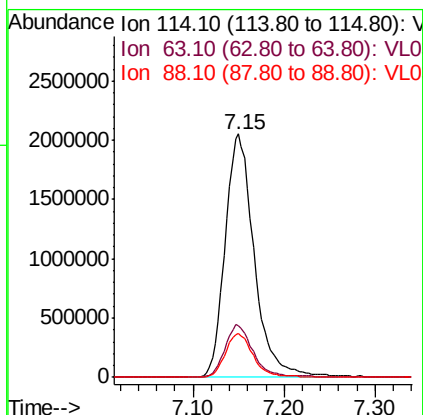
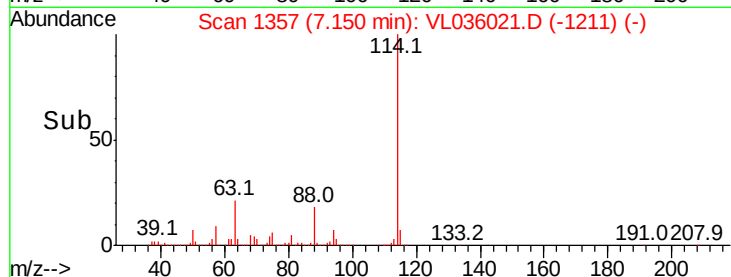
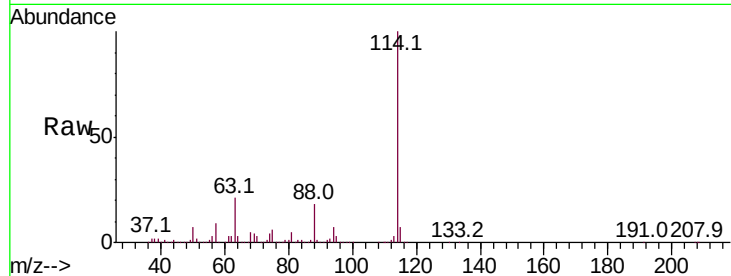
Instrument :
MSVOA_L
ClientSampled :
SVP-03

Tot Ion:114 Resp: 4569754

Ion	Ratio	Lower	Upper
114	100		
63	21.2	16.1	24.1
88	17.5	13.7	20.5

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#34

2-Butanone

Concen: 1.028 ppbv

RT: 5.23 min Scan# 759

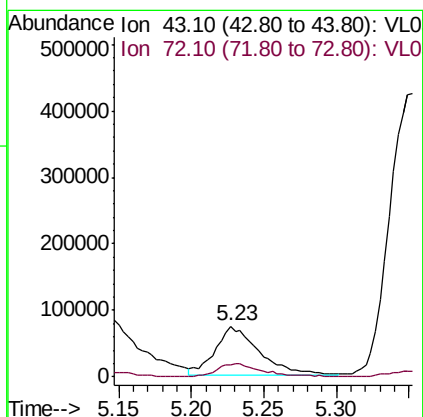
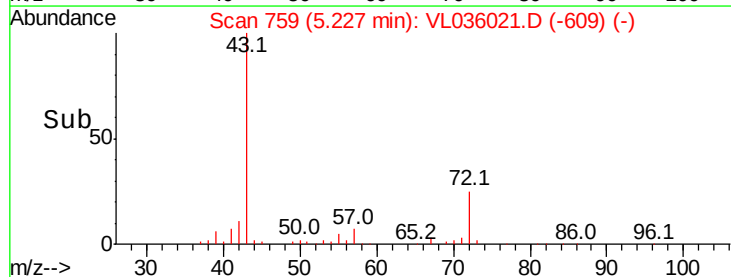
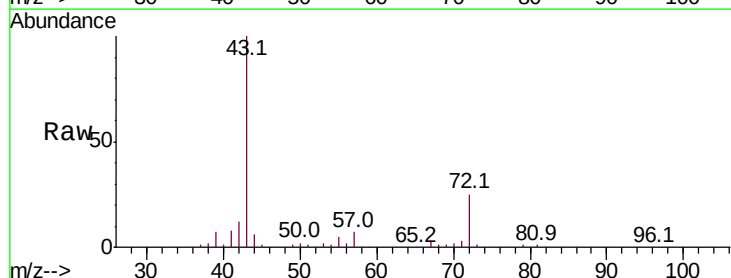
Delta R.T. -0.02 min

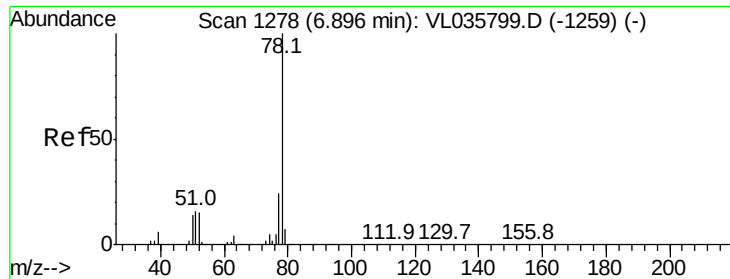
Lab File: VL036021.D

Acq: 25 Nov 2020 8:38

Tgt Ion: 43 Resp: 152445

Ion	Ratio	Lower	Upper
43	100		
72	27.9	26.5	39.7





#36

Benzene

Concen: 0.657 ppbv

RT: 6.87 min Scan# 1269

Delta R.T. -0.03 min

Lab File: VL036021.D

Acq: 25 Nov 2020 8:38

Instrument :

MSVOA_L

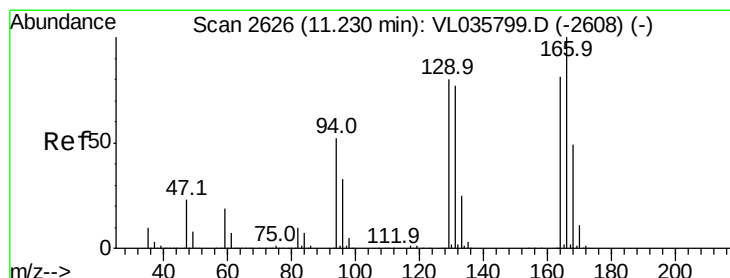
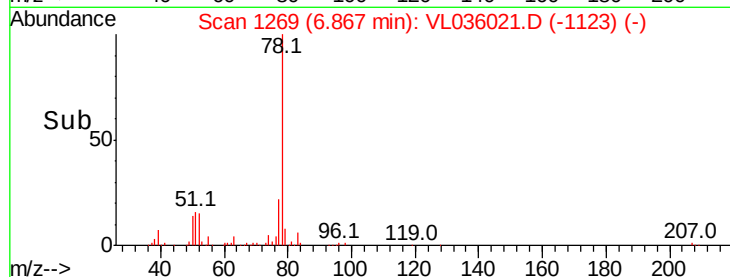
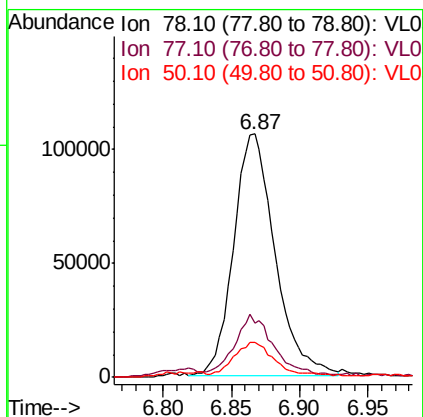
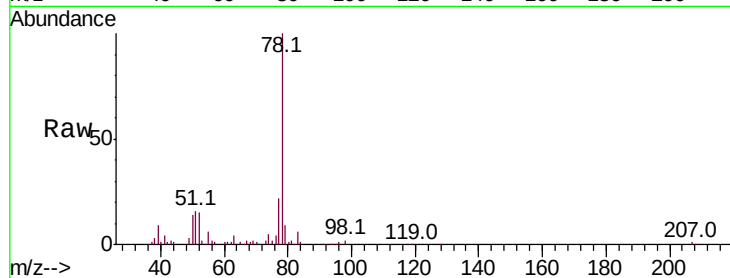
ClientSampled :

SVP-03

Tot Ion:	78	Resp:	223339
Ion	Ratio	Lower	Upper
78	100		
77	21.1	19.3	28.9
50	13.1	11.4	17.2

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#52

Tetrachloroethene

Concen: 0.041 ppbv m

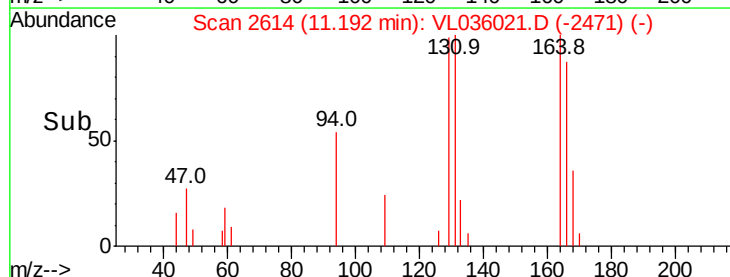
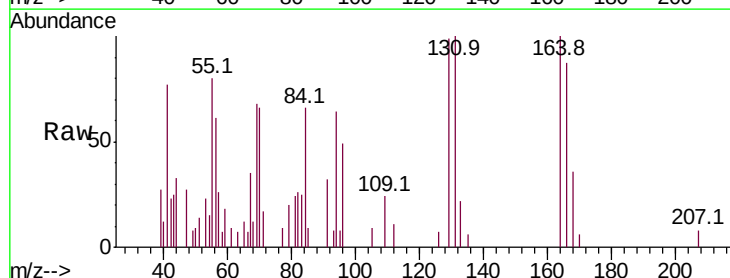
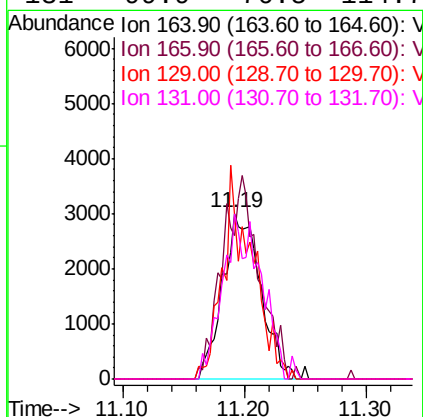
RT: 11.19 min Scan# 2614

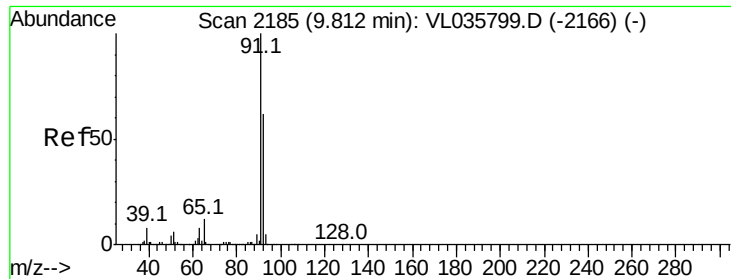
Delta R.T. -0.04 min

Lab File: VL036021.D

Acq: 25 Nov 2020 8:38

Tgt Ion:	164	Resp:	6522
Ion	Ratio	Lower	Upper
164	100		
166	86.9	99.3	148.9#
129	99.2	79.3	118.9
131	99.9	76.5	114.7





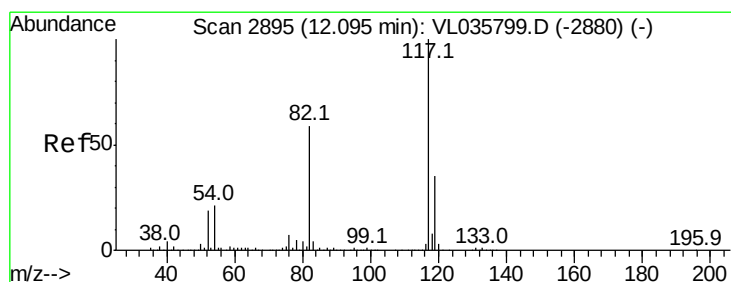
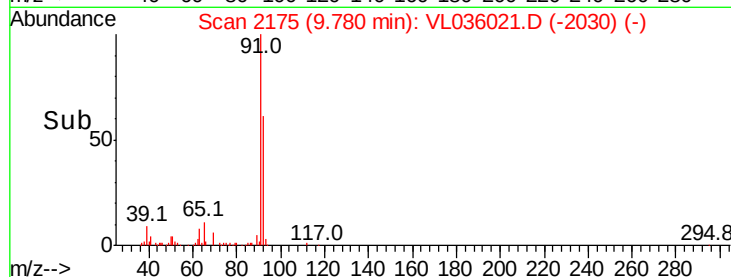
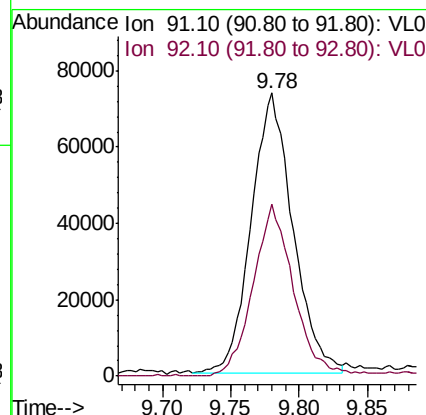
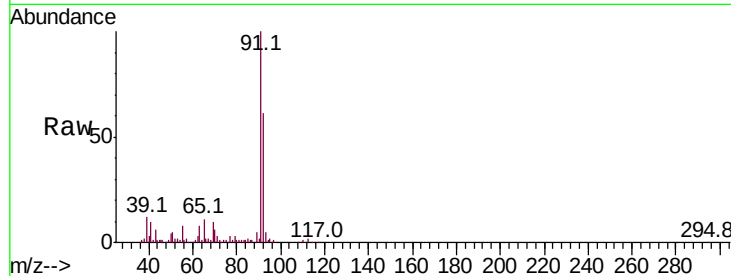
#53
Toluene
Concen: 0.378 ppbv
RT: 9.78 min Scan# 2175
Delta R.T. -0.03 min
Lab File: VL036021.D
Acq: 25 Nov 2020 8:38

Instrument :
MSVOA_L
ClientSampleId :
SVP-03

Tot Ion	Ratio	Lower	Upper
91	100		
92	62.5	49.8	74.6

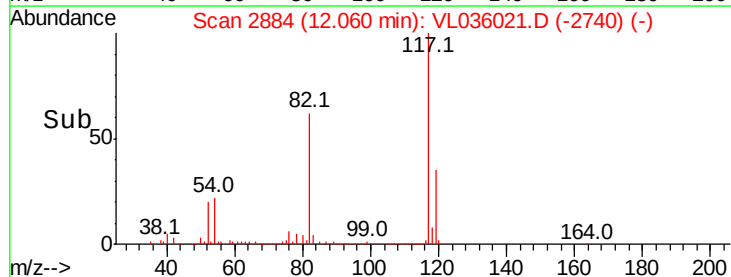
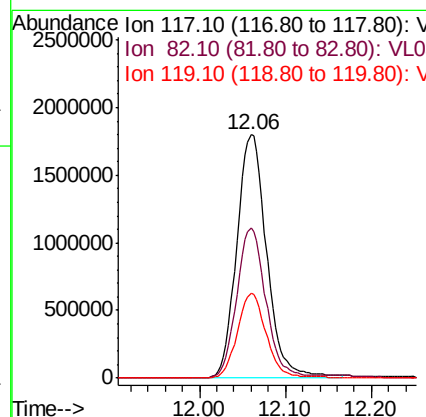
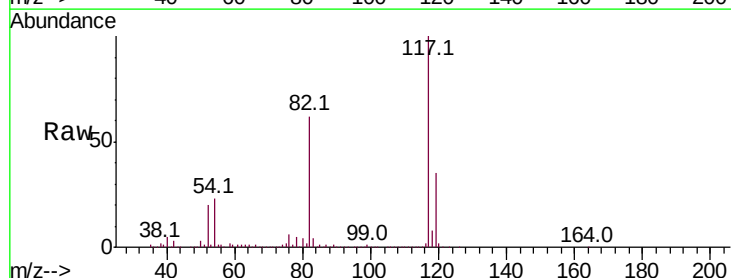
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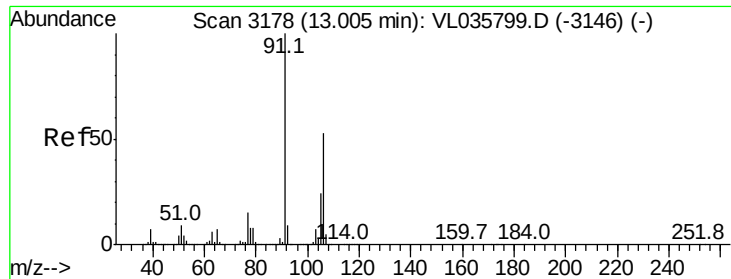
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#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.06 min Scan# 2884
Delta R.T. -0.04 min
Lab File: VL036021.D
Acq: 25 Nov 2020 8:38

Tgt Ion	Ratio	Lower	Upper
117	100		
82	60.2	50.6	76.0
119	34.3	52.6	78.8#





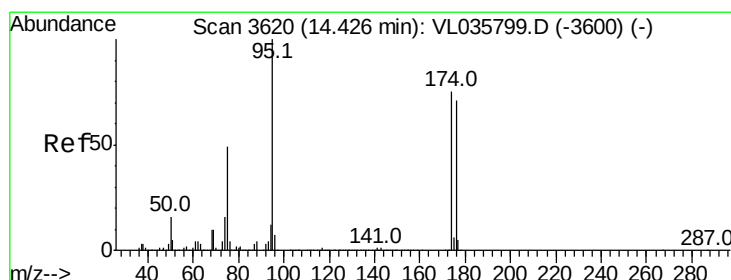
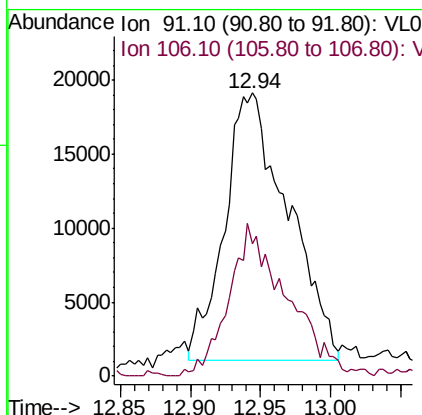
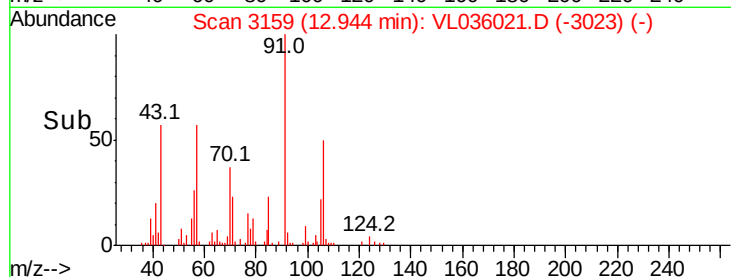
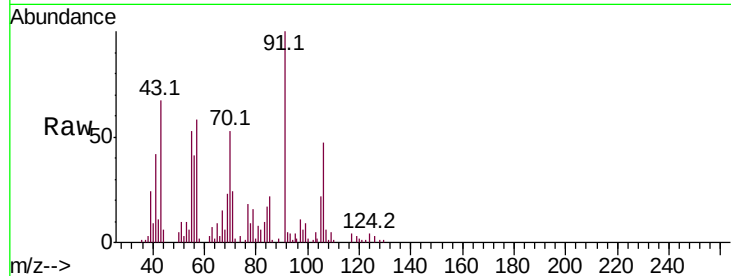
#59
m/p-Xylene
Concen: 0.126 ppbv m
RT: 12.94 min Scan# 3159
Delta R.T. -0.06 min
Lab File: VL036021.D
Acq: 25 Nov 2020 8:38

Instrument :
MSVOA_L
ClientSampled :
SVP-03

Tot Ion: 91 Resp: 56710
Ion Ratio Lower Upper
91 100
106 0.0 39.5 59.3#

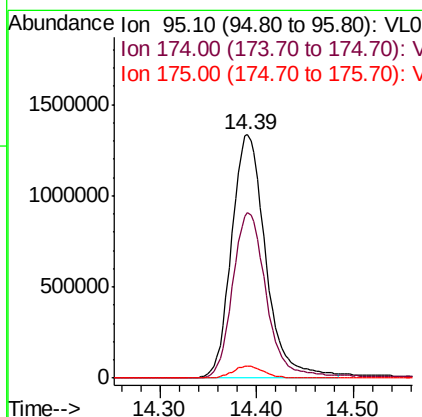
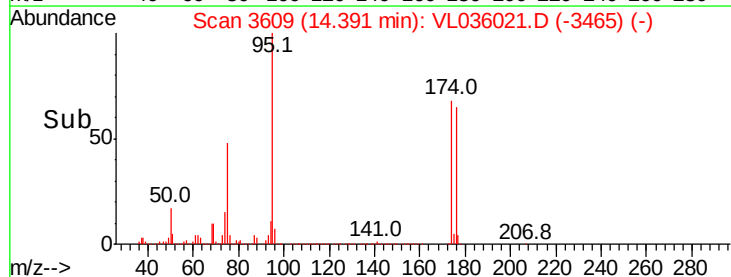
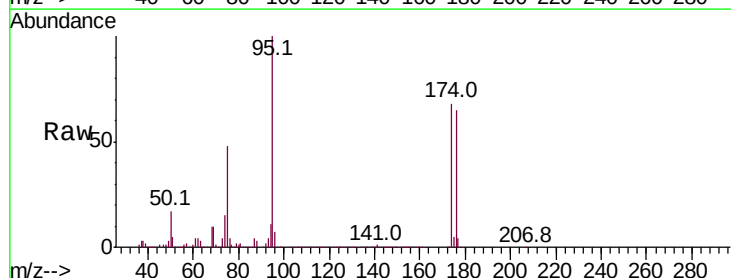
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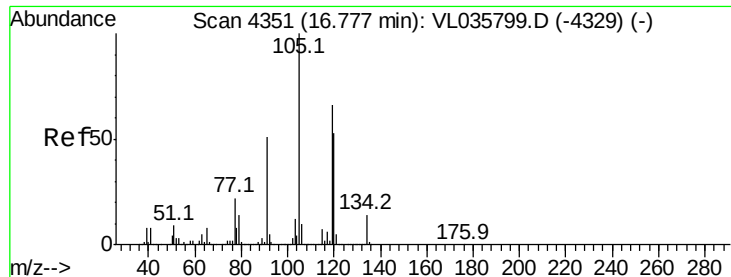
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#68
1-Bromo-4-Fluorobenzene
Concen: 10.552 ppbv
RT: 14.39 min Scan# 3609
Delta R.T. -0.04 min
Lab File: VL036021.D
Acq: 25 Nov 2020 8:38

Tgt Ion: 95 Resp: 3273434
Ion Ratio Lower Upper
95 100
174 69.3 59.8 89.6
175 4.8 4.3 6.5





#74
 1,2,4-Trimethylbenzene
 Concen: 0.140 ppbv m
 RT: 16.74 min Scan# 4339
 Delta R.T. -0.04 min
 Lab File: VL036021.D
 Acq: 25 Nov 2020 8:38

Instrument :
 MSVOA_L
 ClientSampleId :
 SVP-03

Tot Ion	Ratio	Resp Lower	Upper
105	100		
120	50.1	42.0	63.0
91	14.5	41.0	61.6#
77	16.2	17.3	25.9#

Manual Integrations
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