

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL111820\
 Data File : VL035982.D
 Acq On : 18 Nov 2020 20:45
 Operator : SY/AP
 Sample : L4781-02
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA2

Manual Integrations
 APPROVED

MMDadoda
 11/20/2020 12:27:37 PM

Quant Time: Nov 19 21:29:22 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 02:40:06 2020
 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	5.63	49	1083261	10.00	ppbv	-0.04
33) 1,4-Difluorobenzene	7.13	114	3963372	10.00	ppbv	-0.05
55) Chlorobenzene-d5	12.04	117	3645905	10.00	ppbv	-0.05

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.37	95	2726218	10.52	ppbv	-0.05
Spiked Amount	10.000	Range	65 - 135	Recovery	=	105.20%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.02	85	56249	0.276	ppbv	97
3) Chlorodifluoromethane	2.96	51	67408	0.520	ppbv #	87
4) Chloromethane	3.11	50	31899	0.506	ppbv	98
9) Propene	2.99	41	40774	0.859	ppbv	89
11) Trichlorofluoromethane	3.92	101	67392	0.263	ppbv	92
13) Ethanol	3.57	45	450273	43.713	ppbv	98
15) Acetone	3.82	43	577644	4.988	ppbv	93
19) Isopropyl Alcohol	3.95	45	99335	1.396	ppbv #	84
20) Methylene Chloride	4.31	84	1487234	18.242	ppbv	96
26) Hexane	5.65	57	875481	6.958	ppbv #	46
30) Cyclohexane	7.12	84	20287m	0.148	ppbv	
34) 2-Butanone	5.22	43	19779	0.154	ppbv	94
35) Carbon Tetrachloride	6.98	117	14777m	0.070	ppbv	
36) Benzene	6.85	78	55556	0.189	ppbv	96
52) Tetrachloroethene	11.18	164	12540m	0.090	ppbv	
53) Toluene	9.76	91	774693	2.179	ppbv	97
59) m/p-Xylene	12.92	91	40954m	0.109	ppbv	

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

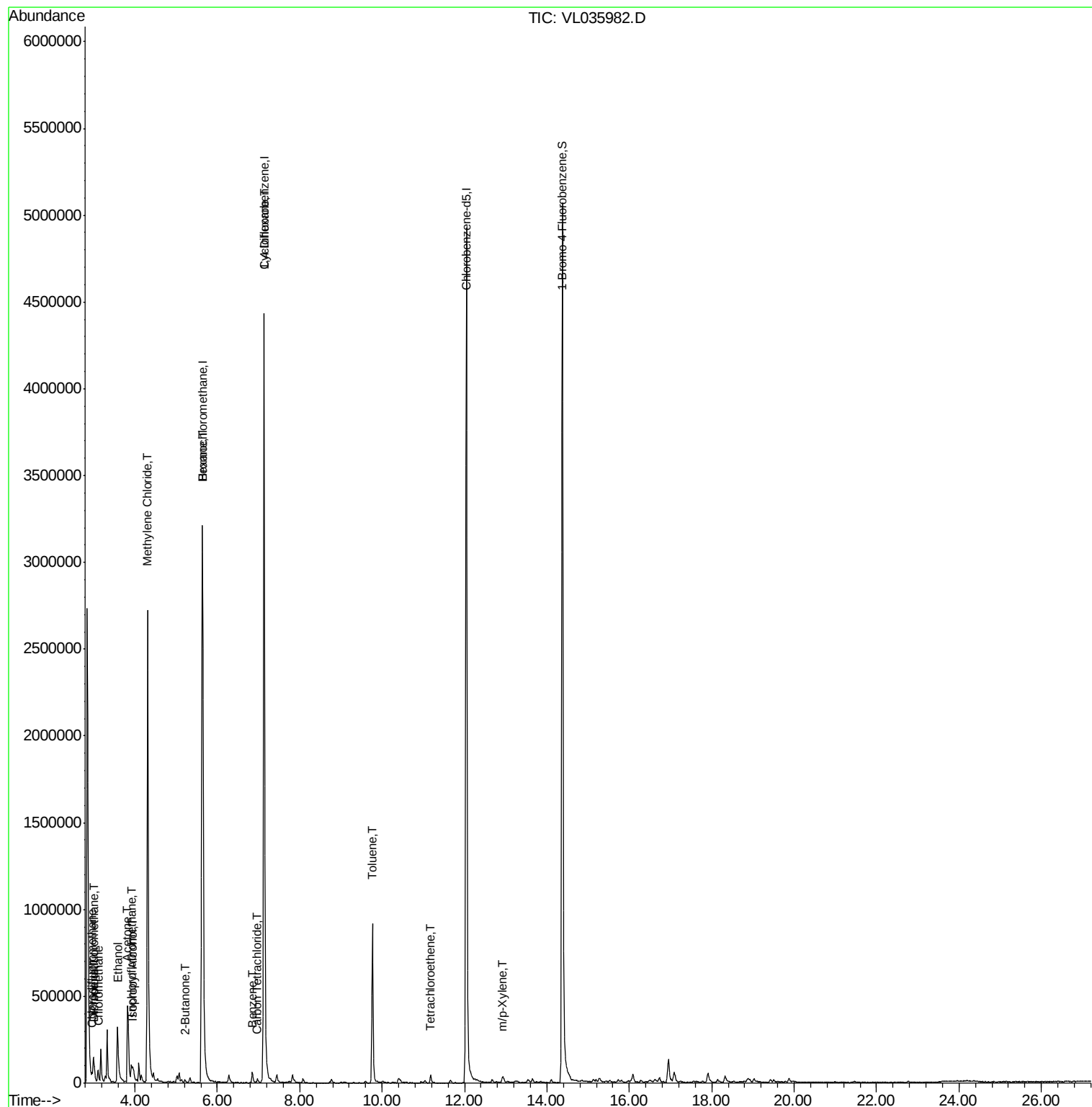
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL111820\
Data File : VL035982.D
Acq On : 18 Nov 2020 20:45
Operator : SY/AP
Sample : L4781-02
Misc : 400ml/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

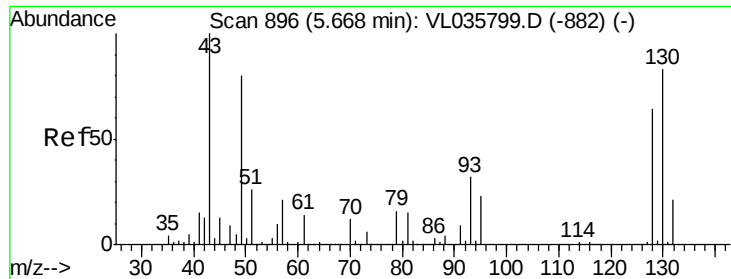
Instrument :
MSVOA_L
ClientSampleId :
IA2

Manual Integrations
APPROVED

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11/20/2020 12:27:37 PM

Quant Time: Nov 19 21:29:22 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: 5.63 min Scan# 883

Delta R.T. -0.04 min

Lab File: VL035982.D

Acq: 18 Nov 2020 20:45

Instrument :

MSVOA_L

ClientSampleId :

IA2

Tot Ion: 49 Resp: 1083261

Ion Ratio Lower Upper

49 100

128 81.5 41.5 124.6

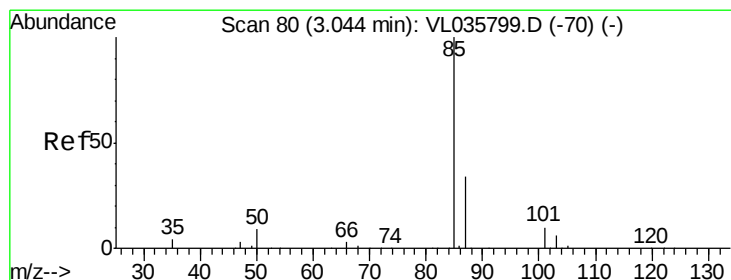
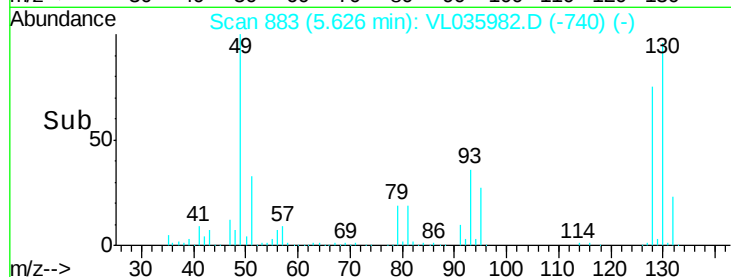
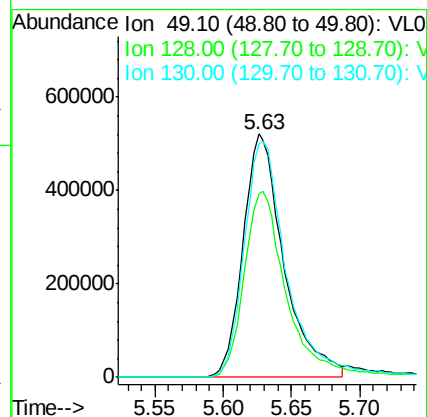
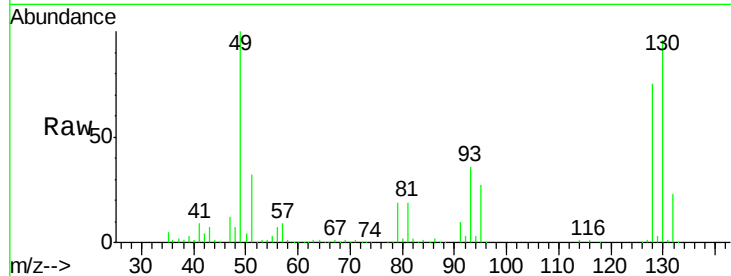
130 105.0 53.7 161.1

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#2

Dichlorodifluoromethane

Concen: 0.276 ppbv

RT: 3.02 min Scan# 72

Delta R.T. -0.03 min

Lab File: VL035982.D

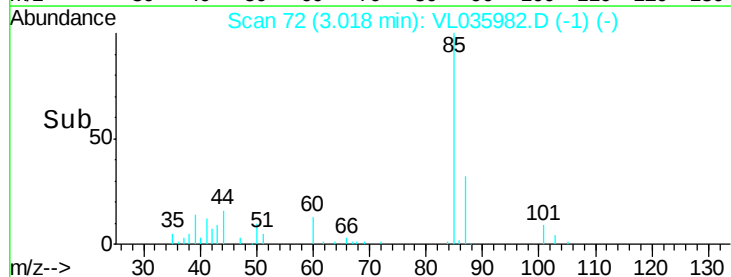
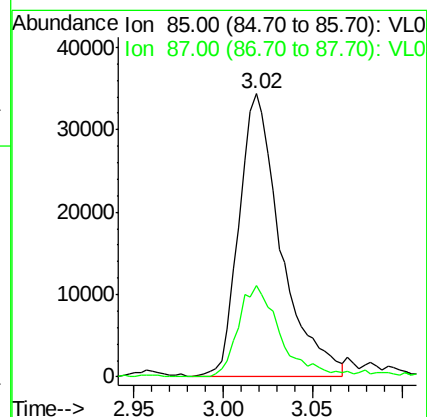
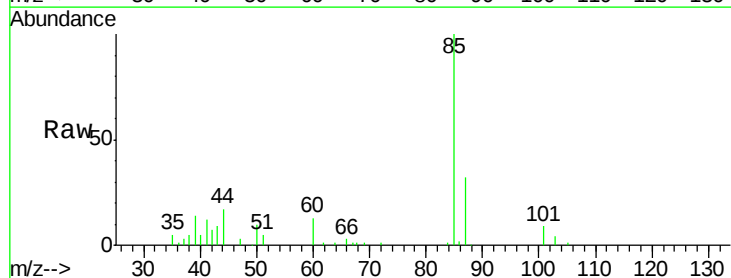
Acq: 18 Nov 2020 20:45

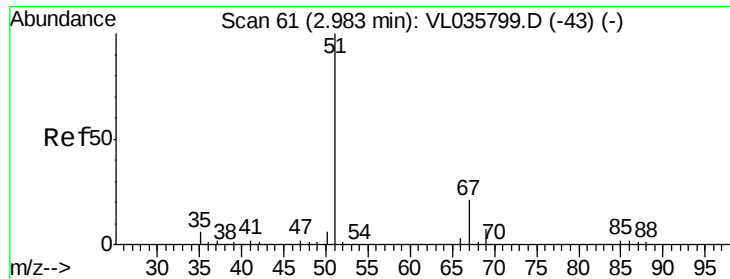
Tgt Ion: 85 Resp: 56249

Ion Ratio Lower Upper

85 100

87 32.3 27.1 40.7





#3

Chlorodifluoromethane

Concen: 0.520 ppbv

RT: 2.96 min Scan# 53

Delta R.T. -0.03 min

Lab File: VL035982.D

Acq: 18 Nov 2020 20:45

Instrument :

MSVOA_L

ClientSampleId :

IA2

Tot Ion: 51 Resp: 67408

Ion Ratio Lower Upper

51 100

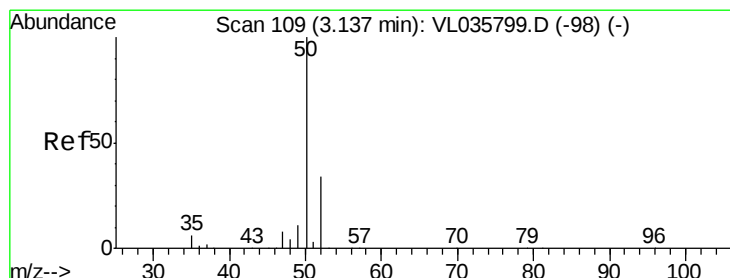
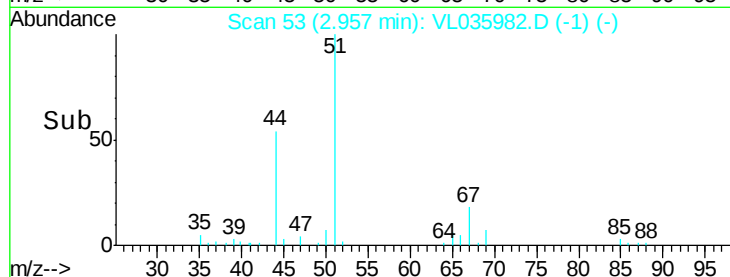
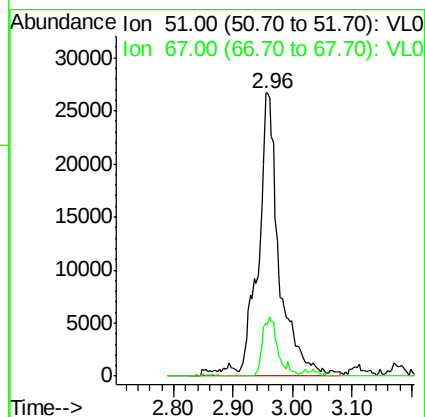
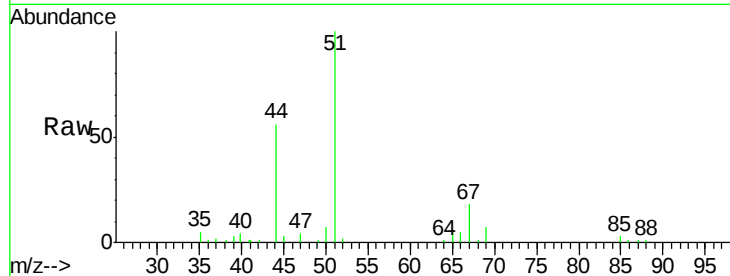
67 15.0 17.0 25.4#

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#4

Chloromethane

Concen: 0.506 ppbv

RT: 3.11 min Scan# 102

Delta R.T. -0.02 min

Lab File: VL035982.D

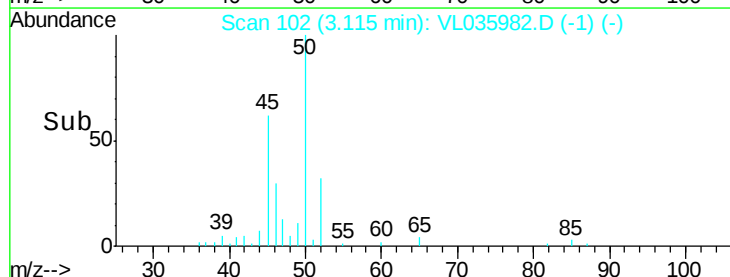
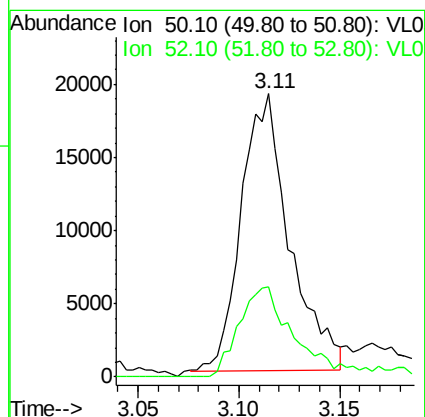
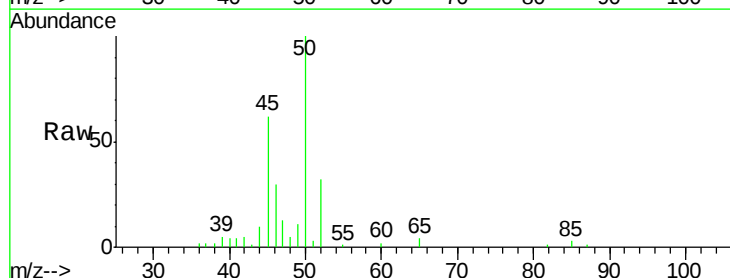
Acq: 18 Nov 2020 20:45

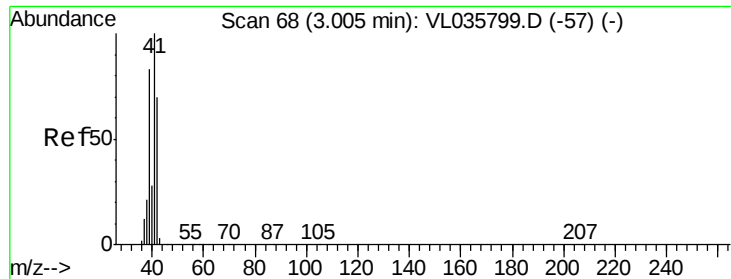
Tgt Ion: 50 Resp: 31899

Ion Ratio Lower Upper

50 100

52 32.6 27.1 40.7





#9

Propene

Concen: 0.859 ppbv

RT: 2.99 min Scan# 64

Delta R.T. -0.01 min

Lab File: VL035982.D

Acq: 18 Nov 2020 20:45

Instrument :

MSVOA_L

ClientSampleId :

IA2

Tot Ion: 41 Resp: 40774

Ion Ratio Lower Upper

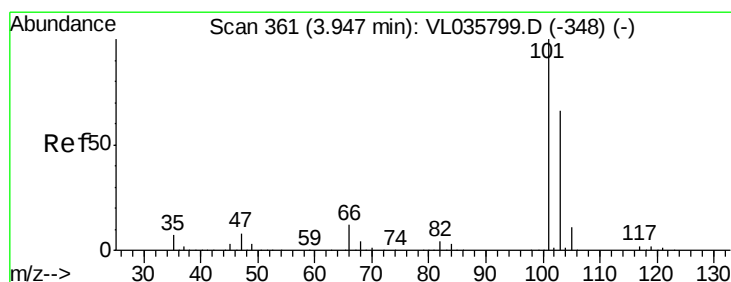
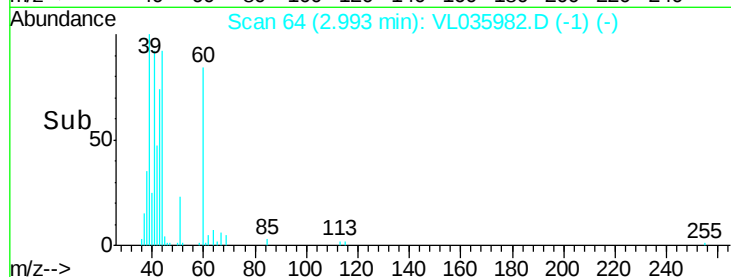
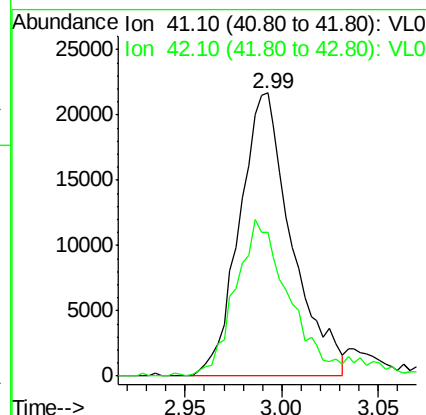
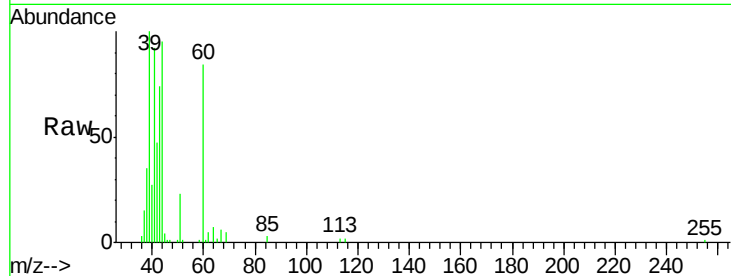
41 100

42 61.5 56.2 84.4

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#11

Trichlorofluoromethane

Concen: 0.263 ppbv

RT: 3.92 min Scan# 351

Delta R.T. -0.03 min

Lab File: VL035982.D

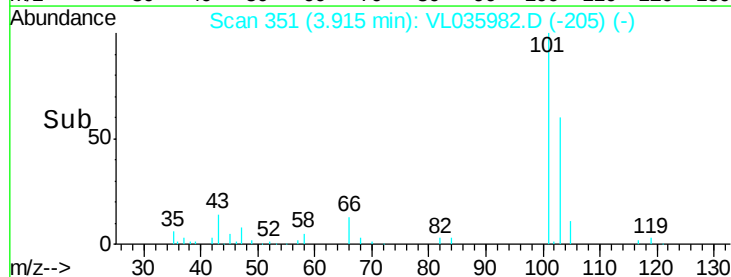
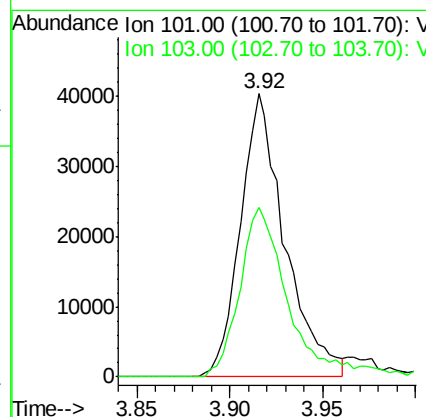
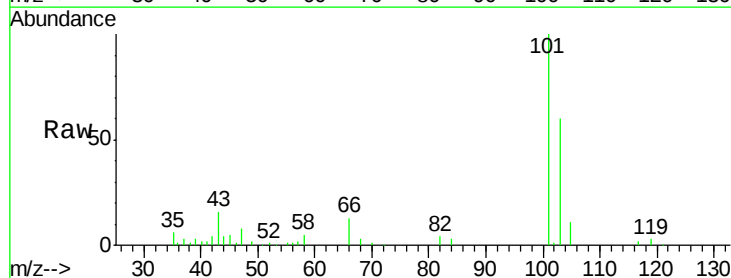
Acq: 18 Nov 2020 20:45

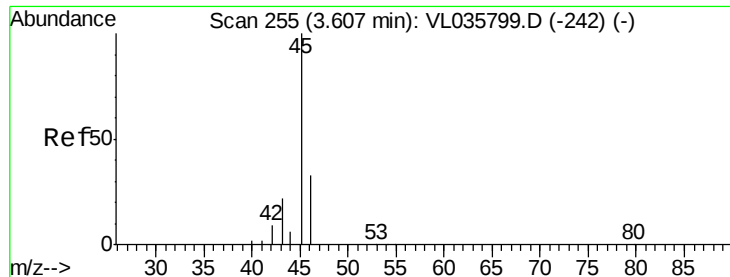
Tgt Ion: 101 Resp: 67392

Ion Ratio Lower Upper

101 100

103 59.9 53.0 79.4





#13

Ethanol

Concen: 43.713 ppbv

RT: 3.57 min Scan# 245

Delta R.T. -0.03 min

Lab File: VL035982.D

Acq: 18 Nov 2020 20:45

Instrument :

MSVOA_L

ClientSampled :

IA2

Tot Ion: 45 Resp: 450273

Ion Ratio Lower Upper

45 100

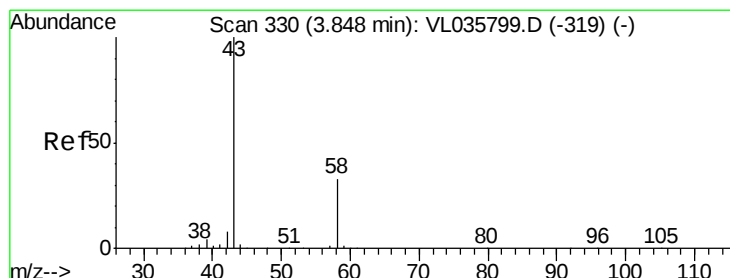
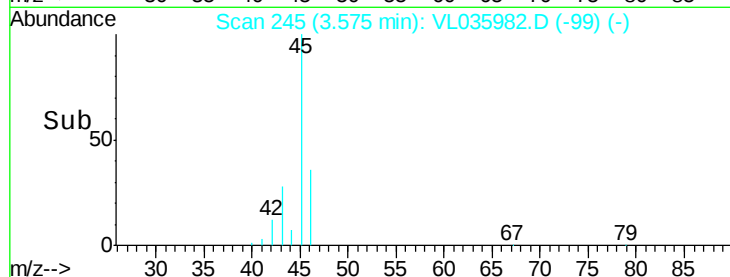
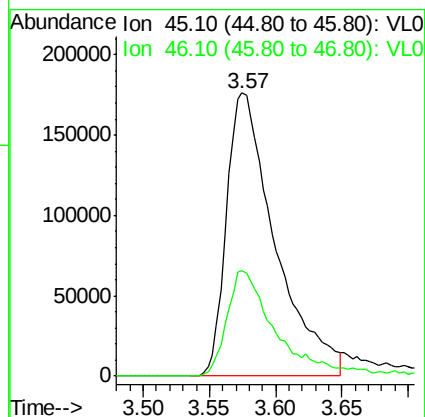
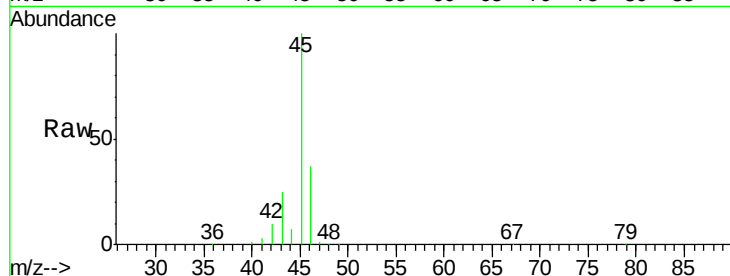
46 38.9 16.1 64.5

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#15

Acetone

Concen: 4.988 ppbv

RT: 3.82 min Scan# 321

Delta R.T. -0.03 min

Lab File: VL035982.D

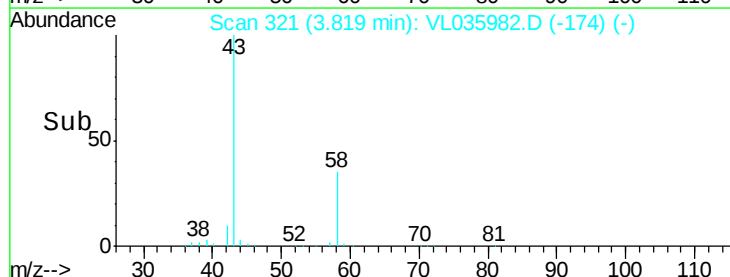
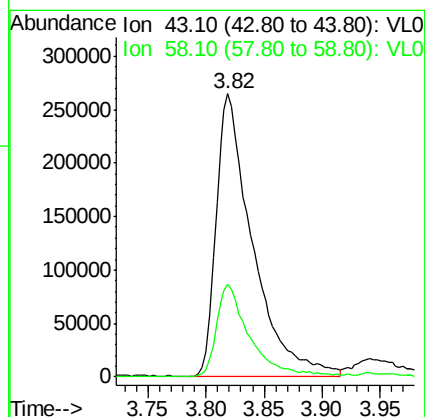
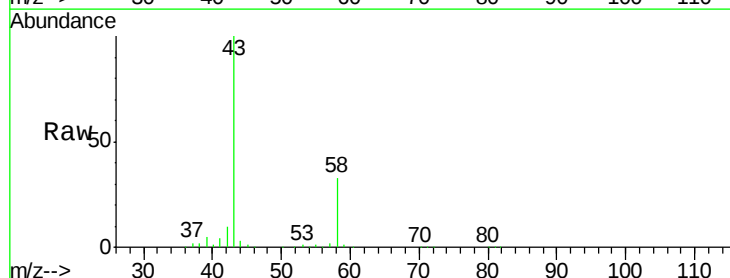
Acq: 18 Nov 2020 20:45

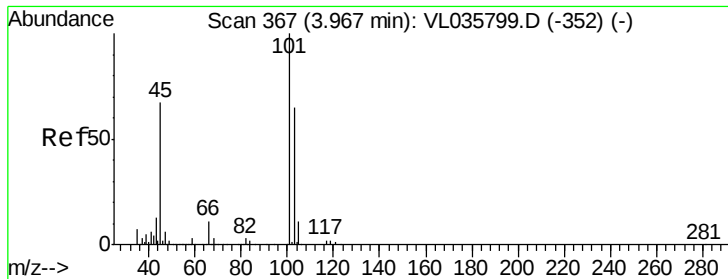
Tgt Ion: 43 Resp: 577644

Ion Ratio Lower Upper

43 100

58 30.4 27.5 41.3





#19

Isopropyl Alcohol

Concen: 1.396 ppbv

RT: 3.95 min Scan# 361

Delta R.T. -0.02 min

Lab File: VL035982.D

Acq: 18 Nov 2020 20:45

Instrument :

MSVOA_L

ClientSampled :

IA2

Tot Ion: 45 Resp: 99335

Ion Ratio Lower Upper

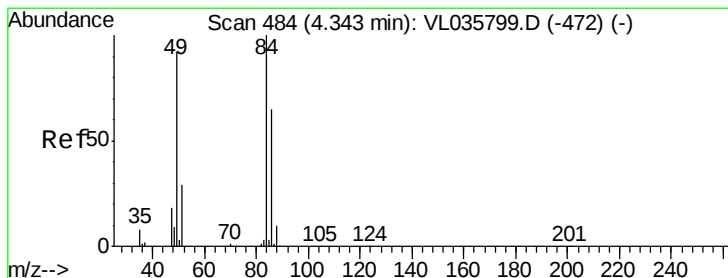
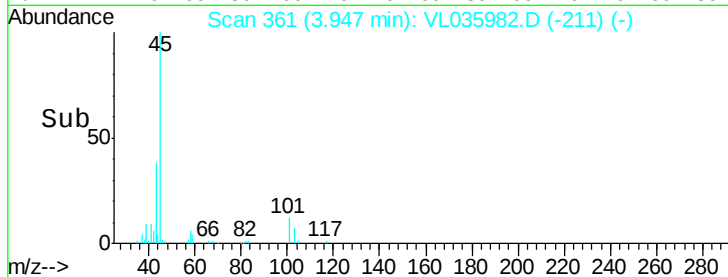
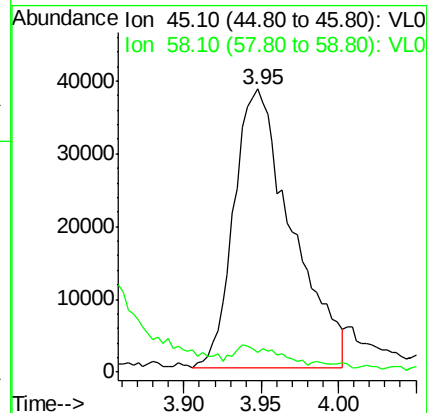
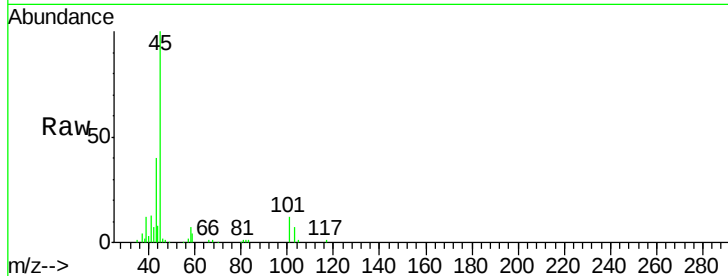
45 100

58 8.5 2.6 3.8#

Manual Integrations
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#20

Methylene Chloride

Concen: 18.242 ppbv

RT: 4.31 min Scan# 473

Delta R.T. -0.04 min

Lab File: VL035982.D

Acq: 18 Nov 2020 20:45

Tgt Ion: 84 Resp: 1487234

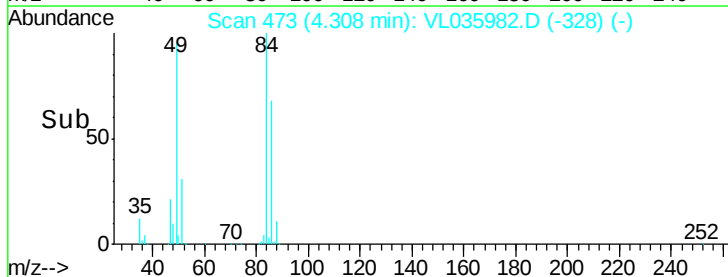
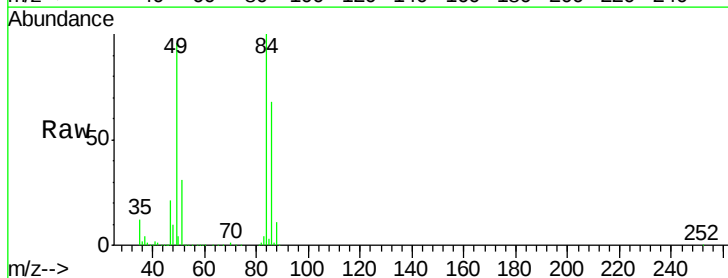
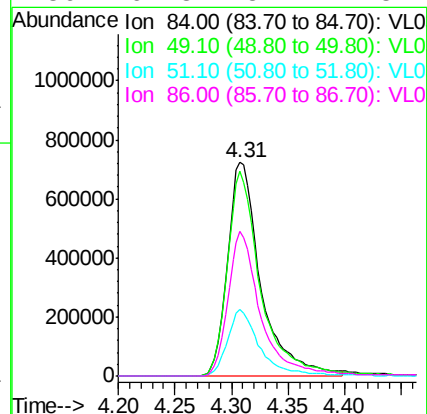
Ion Ratio Lower Upper

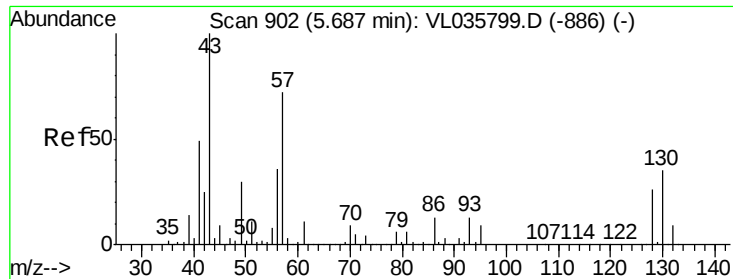
84 100

49 96.0 73.8 110.8

51 31.1 23.0 34.4

86 67.8 52.1 78.1





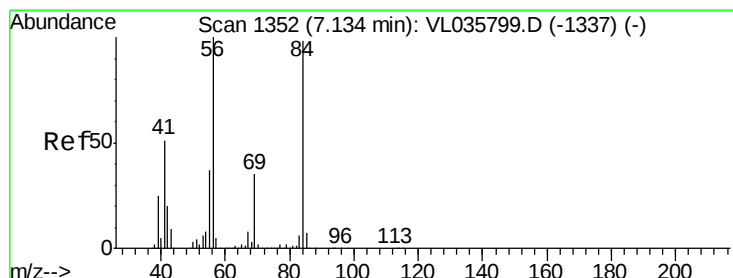
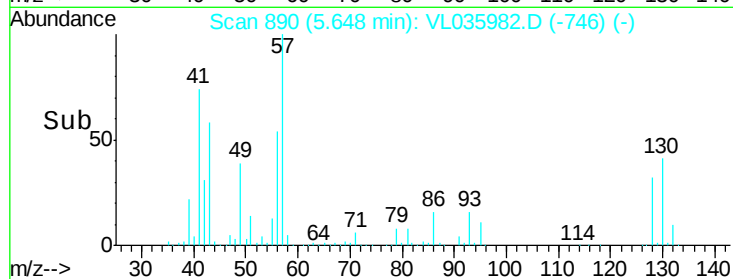
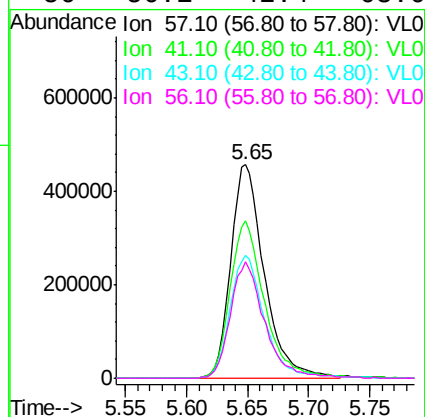
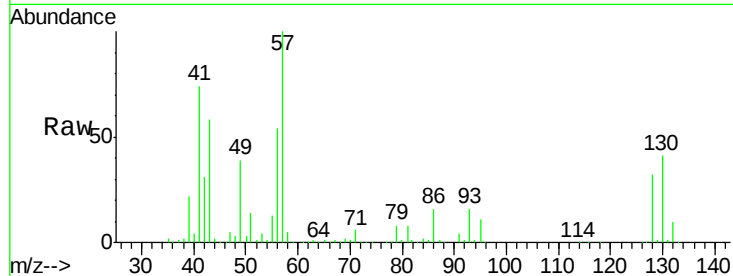
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Hexane
Concen: 6.958 ppbv
RT: 5.65 min Scan# 890
Delta R.T. -0.04 min
Lab File: VL035982.D
Acq: 18 Nov 2020 20:45

Instrument :
MSVOA_L
ClientSampled :
IA2

Tot Ion	Ratio	Lower	Upper
57	100		
41	76.4	58.9	88.3
43	59.9	150.2	225.2#
56	56.1	42.4	63.6

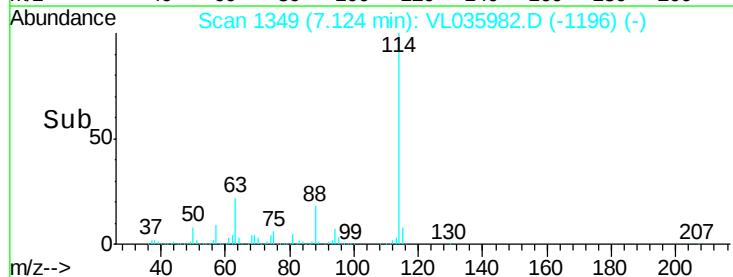
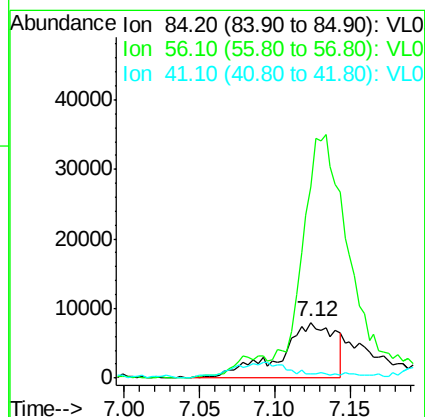
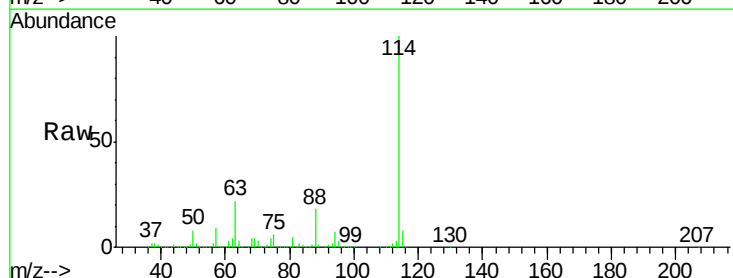
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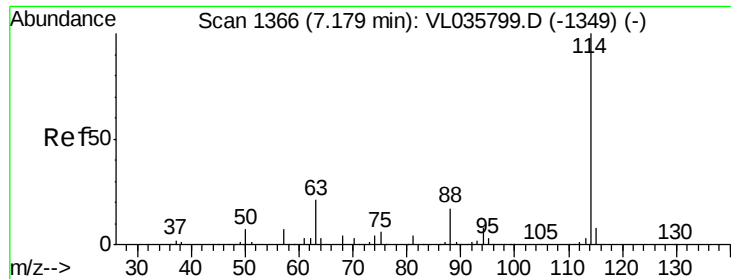
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#30
Cyclohexane
Concen: 0.148 ppbv m
RT: 7.12 min Scan# 1349
Delta R.T. -0.01 min
Lab File: VL035982.D
Acq: 18 Nov 2020 20:45

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





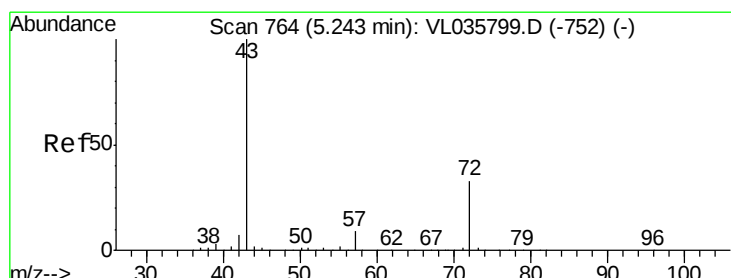
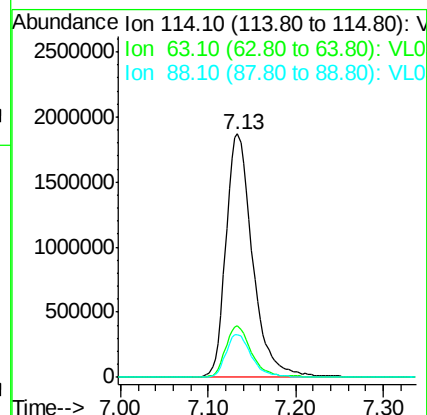
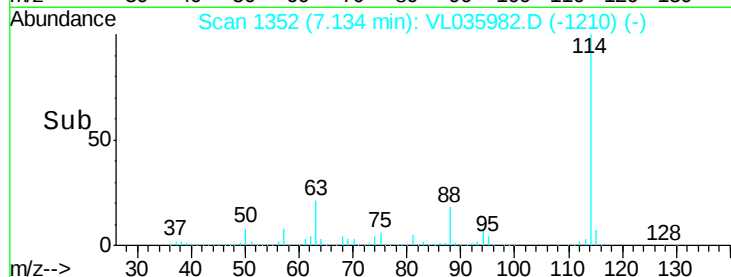
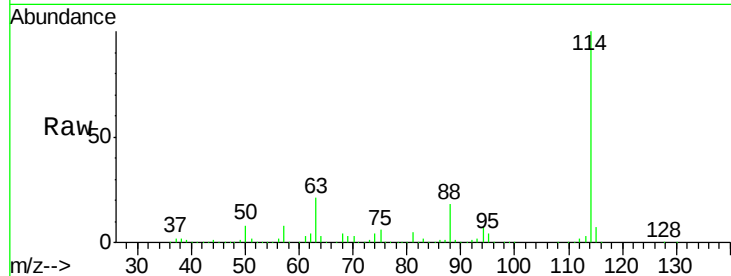
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.13 min Scan# 1352
 Delta R.T. -0.05 min
 Lab File: VL035982.D
 Acq: 18 Nov 2020 20:45

Instrument :
 MSVOA_L
 ClientSampled :
 IA2

Tot Ion	Ratio	Lower	Upper
114	100		
63	20.9	16.1	24.1
88	17.4	13.7	20.5

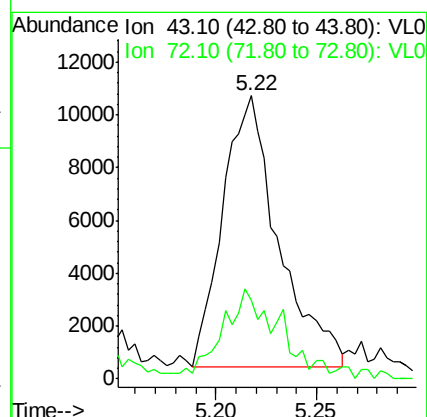
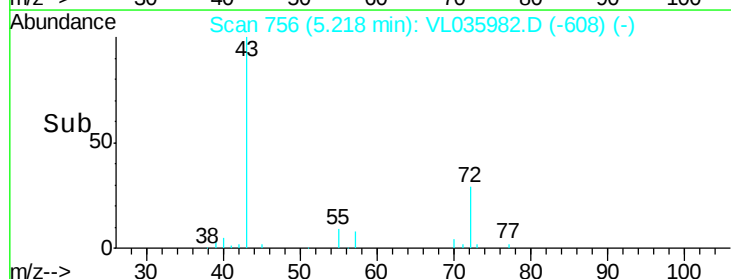
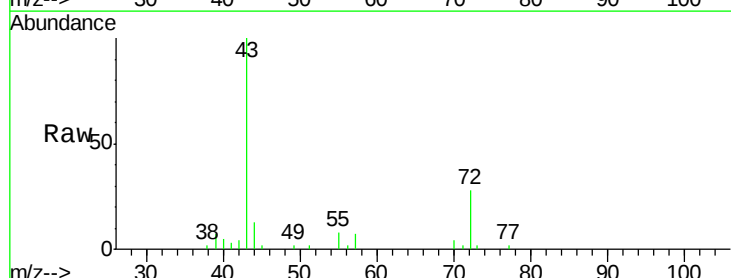
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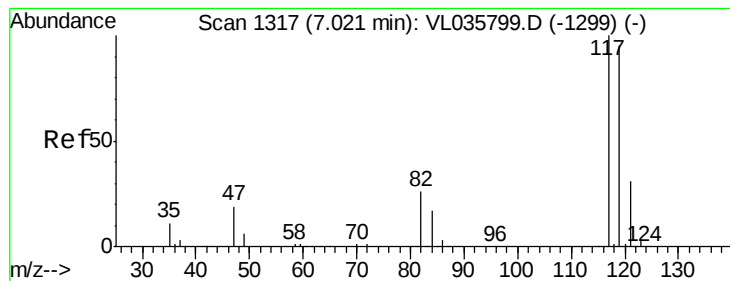
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#34
 2-Butanone
 Concen: 0.154 ppbv
 RT: 5.22 min Scan# 756
 Delta R.T. -0.03 min
 Lab File: VL035982.D
 Acq: 18 Nov 2020 20:45

Tgt Ion	Ratio	Lower	Upper
43	100		
72	36.6	26.5	39.7





#35

Carbon Tetrachloride

Concen: 0.070 ppbv m

RT: 6.98 min Scan# 1303

Delta R.T. -0.05 min

Lab File: VL035982.D

Acq: 18 Nov 2020 20:45

Instrument :

MSVOA_L

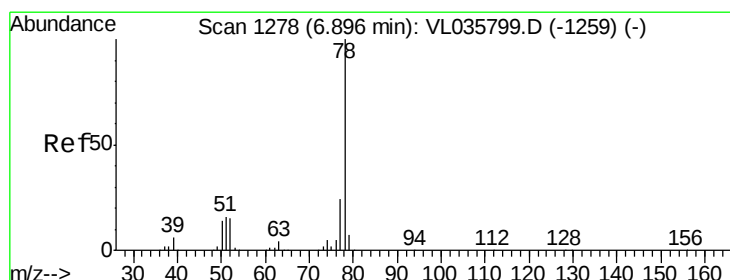
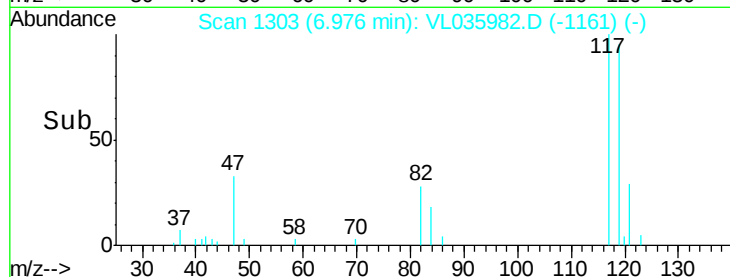
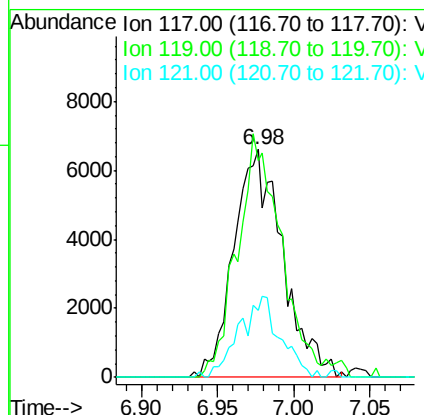
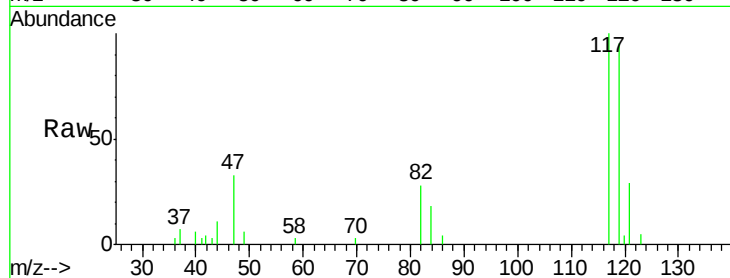
ClientSampled :

IA2

Tot Ion	Ratio	Lower	Upper
117	100		
119	95.3	75.6	113.4
121	29.3	25.1	37.7

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11/20/2020 12:27:37 PM



#36

Benzene

Concen: 0.189 ppbv

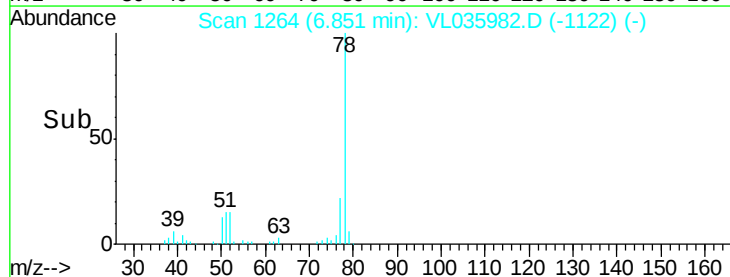
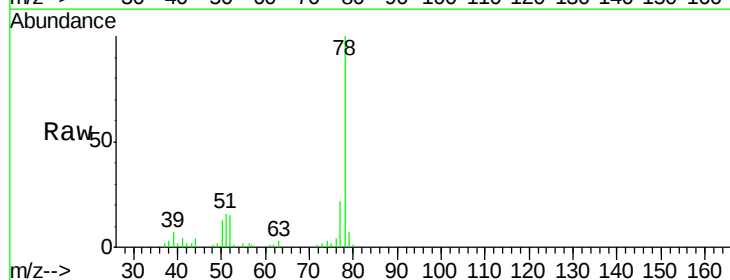
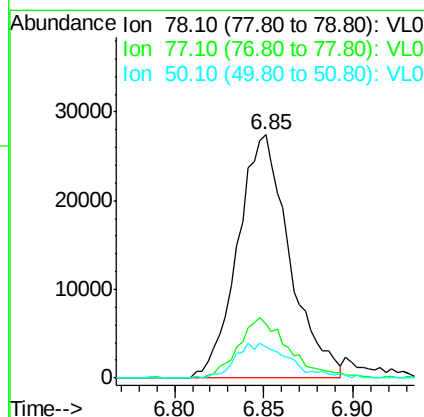
RT: 6.85 min Scan# 1264

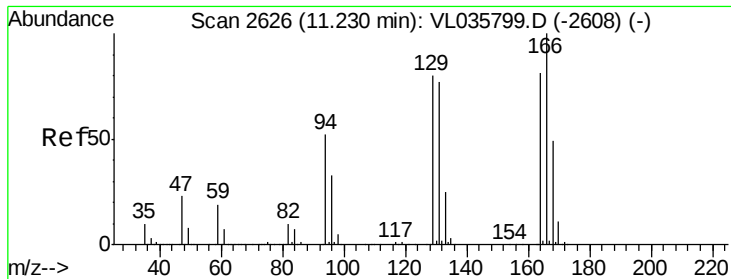
Delta R.T. -0.05 min

Lab File: VL035982.D

Acq: 18 Nov 2020 20:45

Tgt Ion	Ratio	Lower	Upper
78	100		
77	22.2	19.3	28.9
50	12.6	11.4	17.2





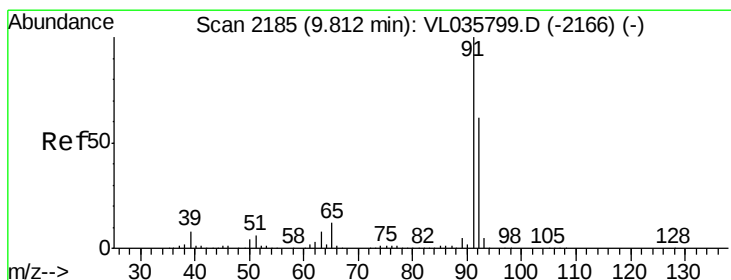
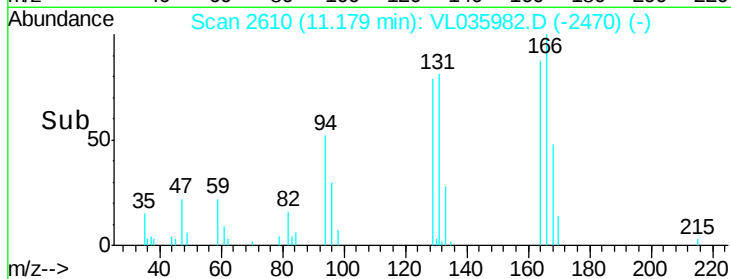
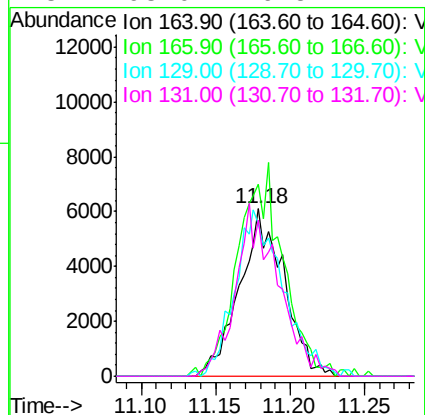
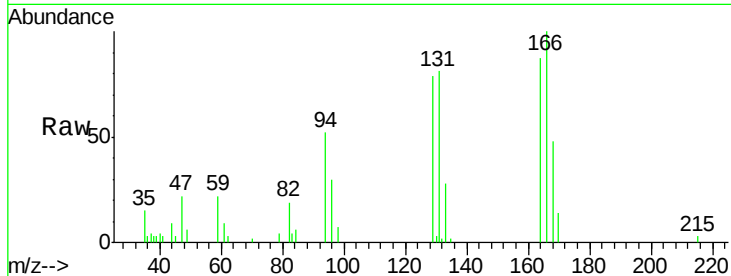
#52
Tetrachloroethene
Concen: 0.090 ppbv m
RT: 11.18 min Scan# 2610
Delta R.T. -0.05 min
Lab File: VL035982.D
Acq: 18 Nov 2020 20:45

Instrument :
MSVOA_L
ClientSampled :
IA2

Tot Ion	Ratio	Lower	Upper
164	100		
166	114.8	99.3	148.9
129	90.5	79.3	118.9
131	93.0	76.5	114.7

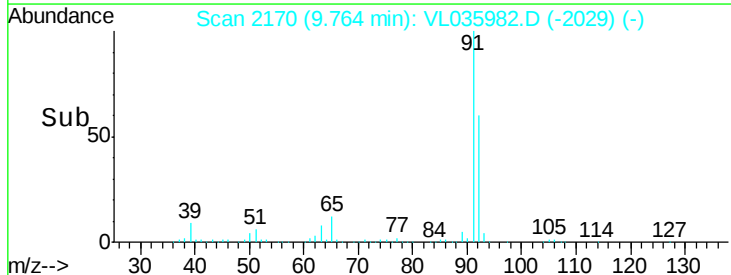
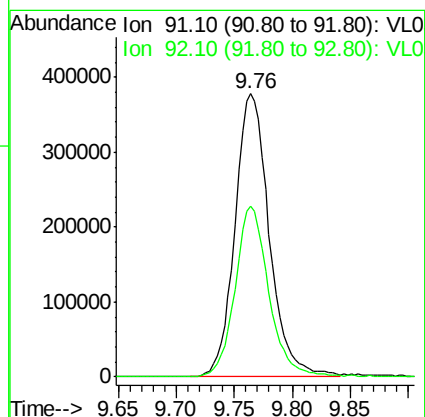
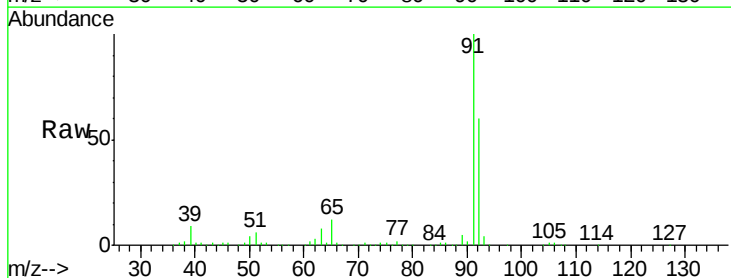
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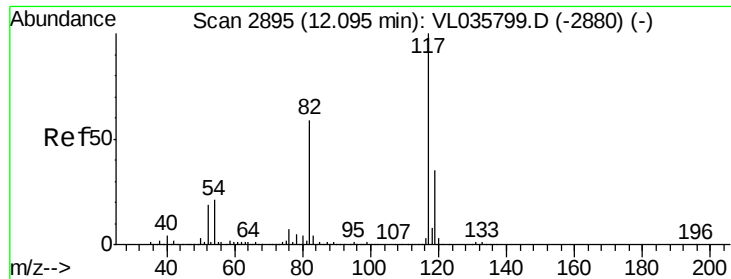
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#53
Toluene
Concen: 2.179 ppbv
RT: 9.76 min Scan# 2170
Delta R.T. -0.05 min
Lab File: VL035982.D
Acq: 18 Nov 2020 20:45

Tgt Ion	Ratio	Lower	Upper
91	100		
92	59.8	49.8	74.6





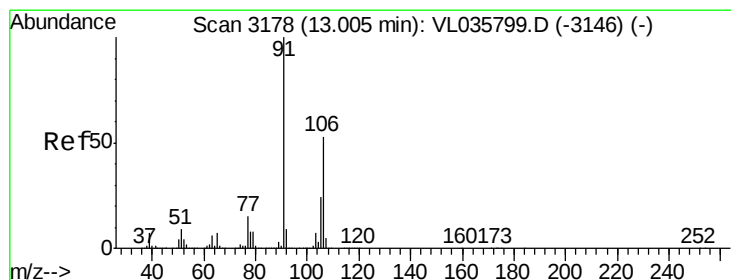
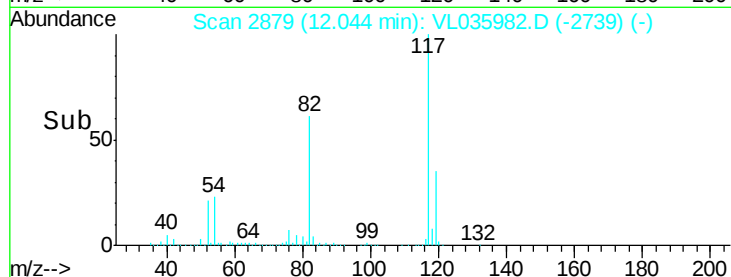
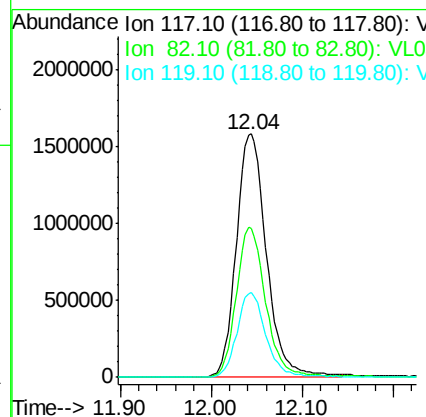
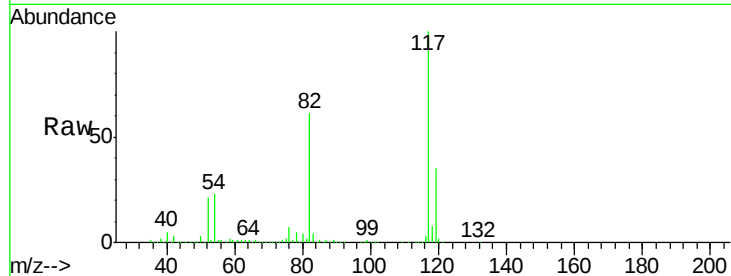
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.04 min Scan# 2879
Delta R.T. -0.05 min
Lab File: VL035982.D
Acq: 18 Nov 2020 20:45

Instrument :
MSVOA_L
ClientSampled :
IA2

Tot Ion:117 Resp: 3645905
Ion Ratio Lower Upper
117 100
82 61.4 50.6 76.0
119 33.9 52.6 78.8#

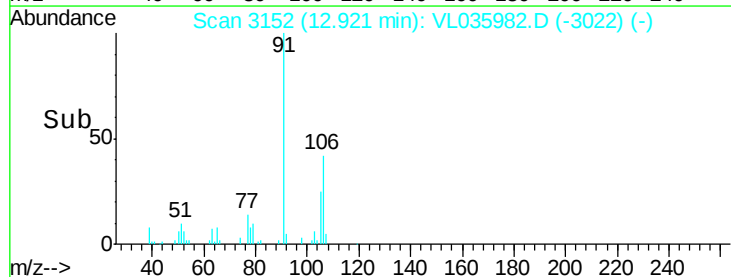
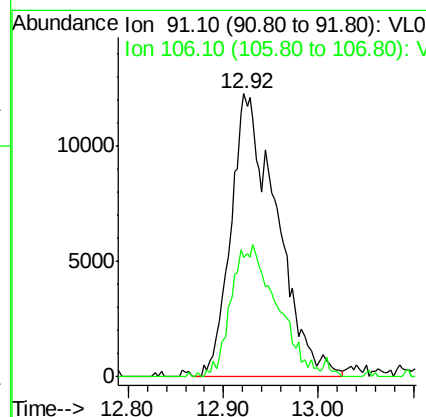
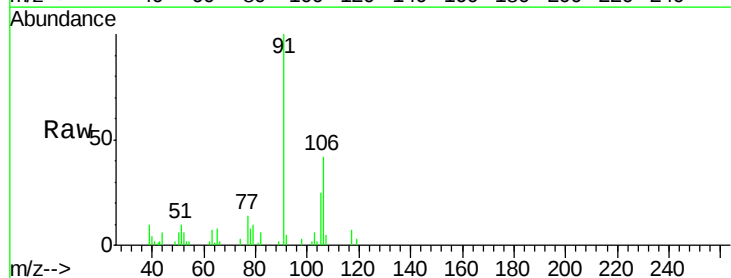
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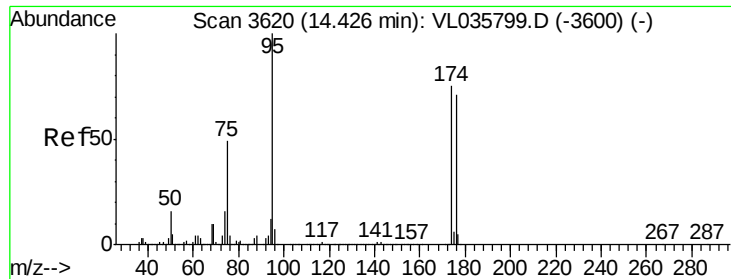
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#59
m/p-Xylene
Concen: 0.109 ppbv m
RT: 12.92 min Scan# 3152
Delta R.T. -0.08 min
Lab File: VL035982.D
Acq: 18 Nov 2020 20:45

Tgt Ion: 91 Resp: 40954
Ion Ratio Lower Upper
91 100
106 0.0 39.5 59.3#





#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.525 ppbv
 RT: 14.37 min Scan# 3604
 Delta R.T. -0.05 min
 Lab File: VL035982.D
 Acq: 18 Nov 2020 20:45

Instrument :
 MSVOA_L
 ClientSampleId :
 IA2

Tot Ion	Ratio	Lower	Upper
95	100		
174	71.0	59.8	89.6
175	5.0	4.3	6.5

Manual Integrations
 APPROVED

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