

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL111820\
 Data File : VL035985.D
 Acq On : 18 Nov 2020 22:45
 Operator : SY/AP
 Sample : L4781-03
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 OA1

Manual Integrations
 APPROVED

Quant Time: Nov 19 21:32:41 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

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.62	49	1095931	10.00	ppbv	-0.05
33) 1,4-Difluorobenzene	7.13	114	3854732	10.00	ppbv	-0.05
55) Chlorobenzene-d5	12.04	117	3558030	10.00	ppbv	-0.05

System Monitoring Compounds		R.T.	QIon	Response	Conc	Units	Dev(Min)
68) 1-Bromo-4-Fluorobenzene	14.37	95	2653569	10.50	ppbv	-0.05	
Spiked Amount	10.000	Range	65 - 135	Recovery	=	105.00%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.01	85	48321	0.234	ppbv	90
3) Chlorodifluoromethane	2.95	51	66732	0.508	ppbv #	90
4) Chloromethane	3.11	50	34462	0.541	ppbv	90
9) Propene	2.99	41	39574	0.824	ppbv	92
11) Trichlorofluoromethane	3.91	101	65240	0.252	ppbv	96
13) Ethanol	3.57	45	331412	31.802	ppbv	97
15) Acetone	3.82	43	404411	3.452	ppbv	92
19) Isopropyl Alcohol	3.94	45	111578	1.550	ppbv #	86
20) Methylene Chloride	4.30	84	361243	4.380	ppbv	98
26) Hexane	5.65	57	337260	2.649	ppbv #	47
30) Cyclohexane	7.12	84	16701m	0.120	ppbv	
34) 2-Butanone	5.21	43	26739	0.214	ppbv	95
35) Carbon Tetrachloride	6.97	117	14183m	0.069	ppbv	
36) Benzene	6.84	78	73479	0.256	ppbv	95
52) Tetrachloroethene	11.18	164	11500m	0.085	ppbv	
53) Toluene	9.76	91	1212399	3.506	ppbv	98
59) m/p-Xylene	12.92	91	43825m	0.120	ppbv	

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

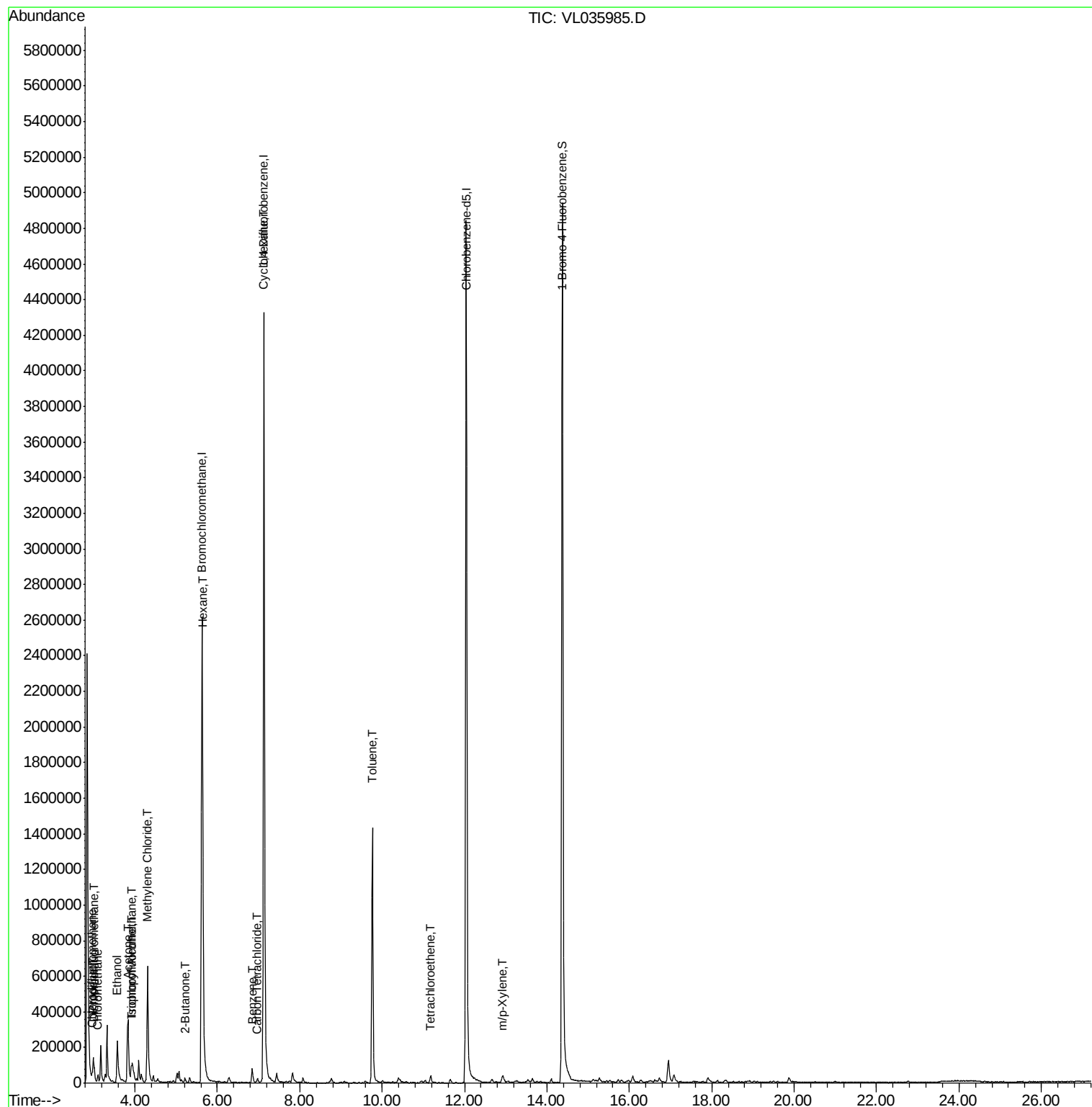
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL111820\
Data File : VL035985.D
Acq On : 18 Nov 2020 22:45
Operator : SY/AP
Sample : L4781-03
Misc : 400ml/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

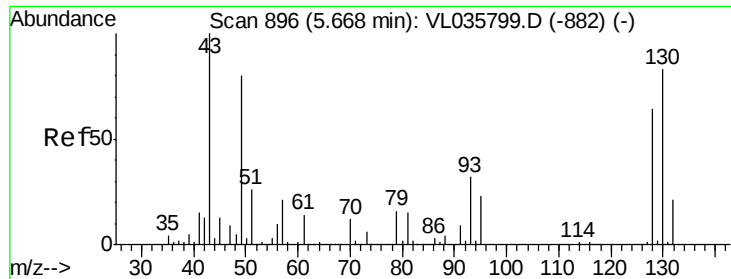
Instrument :
MSVOA_L
ClientSampleId :
OA1

Manual Integrations
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Quant Time: Nov 19 21:32:41 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

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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.62 min Scan# 882

Delta R.T. -0.05 min

Lab File: VL035985.D

Acq: 18 Nov 2020 22:45

Instrument :

MSVOA_L

ClientSampled :

QA1

Tot Ion: 49 Resp: 1095931

Ion Ratio Lower Upper

49 100

128 76.3 41.5 124.6

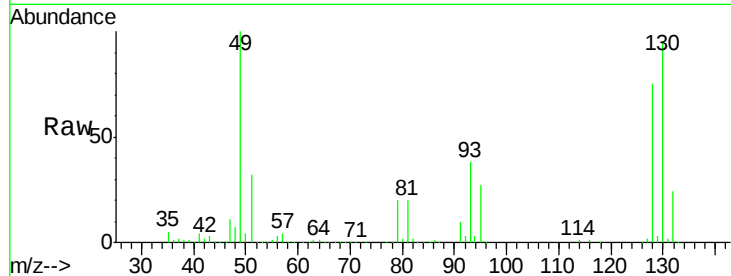
130 98.0 53.7 161.1

Manual Integrations

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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

5.62

600000

500000

400000

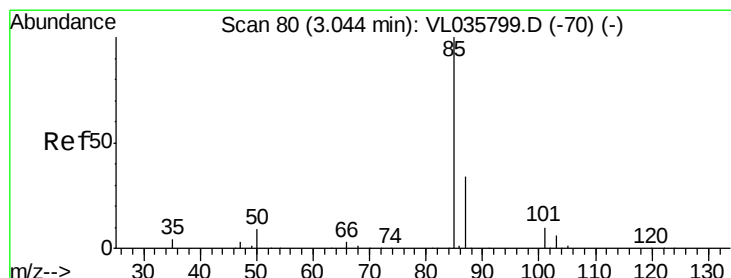
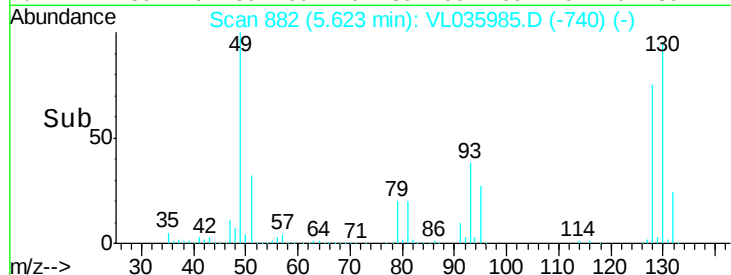
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200000

100000

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Time-->



#2

Dichlorodifluoromethane

Concen: 0.234 ppbv

RT: 3.01 min Scan# 70

Delta R.T. -0.03 min

Lab File: VL035985.D

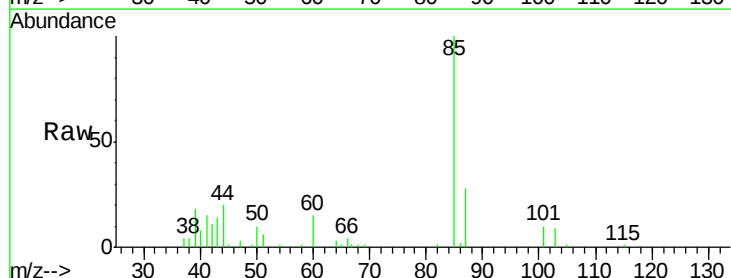
Acq: 18 Nov 2020 22:45

Tgt Ion: 85 Resp: 48321

Ion Ratio Lower Upper

85 100

87 28.1 27.1 40.7



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0

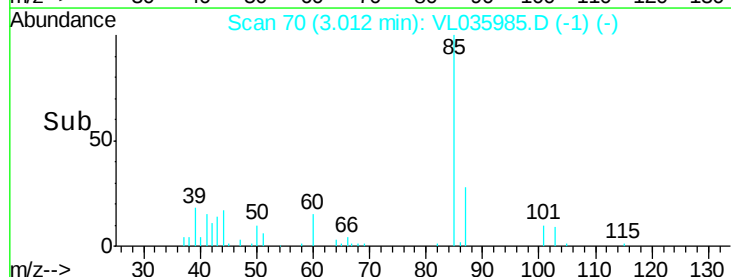
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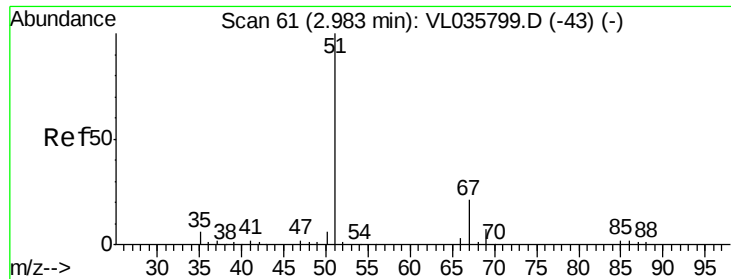
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10000

0

Time-->





#3

Chlorodifluoromethane

Concen: 0.508 ppbv

RT: 2.95 min Scan# 52

Delta R.T. -0.03 min

Lab File: VL035985.D

Acq: 18 Nov 2020 22:45

Tot Ion: 51 Resp: 66732

Ion Ratio Lower Upper

51 100

67 16.7 17.0 25.4#

Instrument :

MSVOA_L

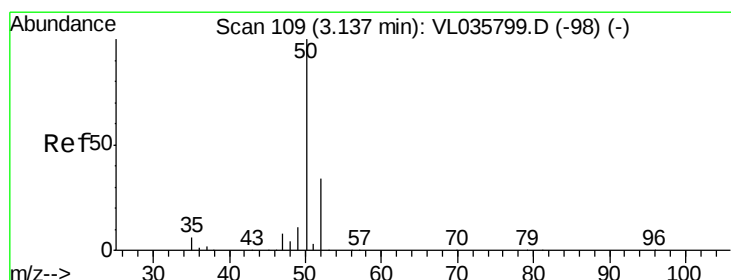
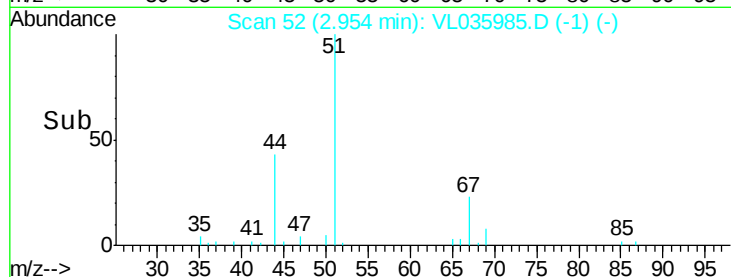
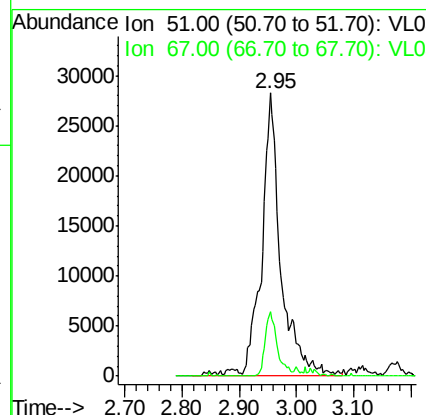
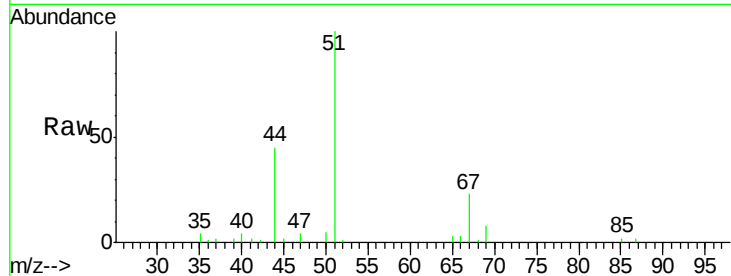
ClientSampleId :

QA1

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#4

Chloromethane

Concen: 0.541 ppbv

RT: 3.11 min Scan# 99

Delta R.T. -0.03 min

Lab File: VL035985.D

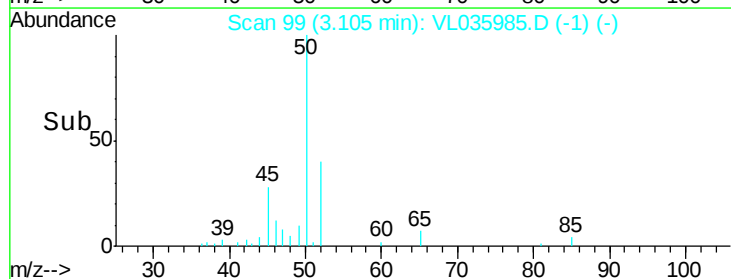
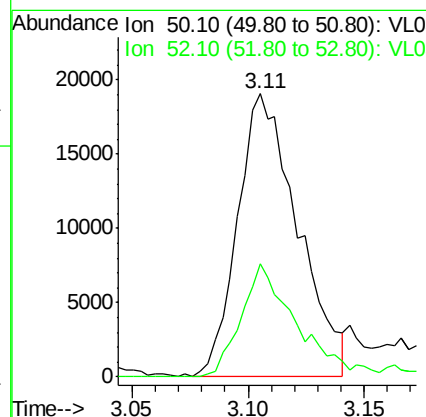
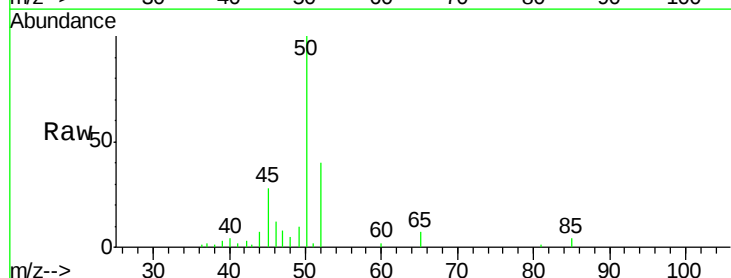
Acq: 18 Nov 2020 22:45

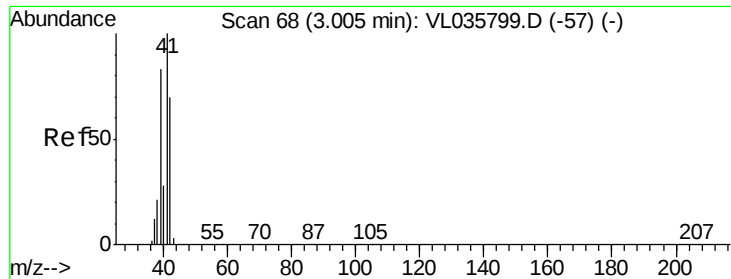
Tgt Ion: 50 Resp: 34462

Ion Ratio Lower Upper

50 100

52 39.8 27.1 40.7





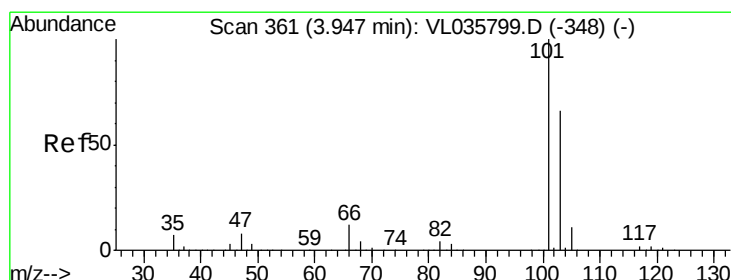
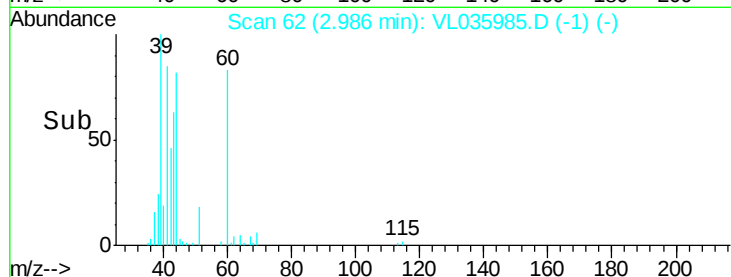
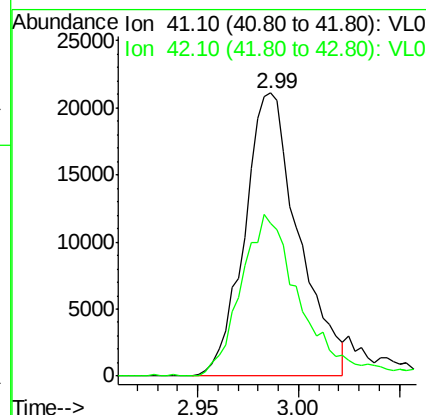
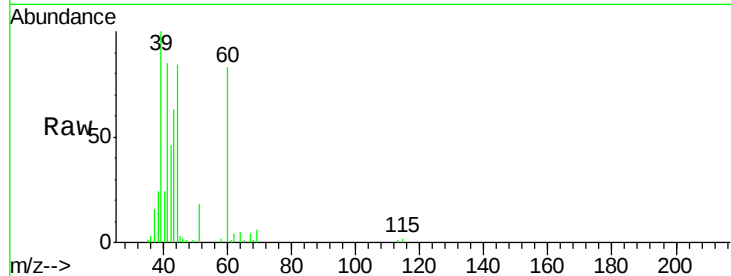
#9
 Propene
 Concen: 0.824 ppbv
 RT: 2.99 min Scan# 62
 Delta R.T. -0.02 min
 Lab File: VL035985.D
 Acq: 18 Nov 2020 22:45

Instrument :
 MSVOA_L
 ClientSampled :
 OA1

Tot Ion: 41 Resp: 39574
 Ion Ratio Lower Upper
 41 100
 42 63.8 56.2 84.4

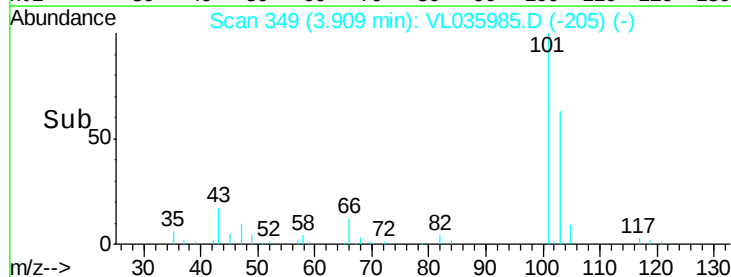
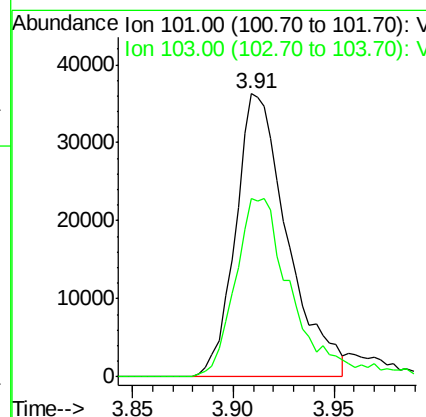
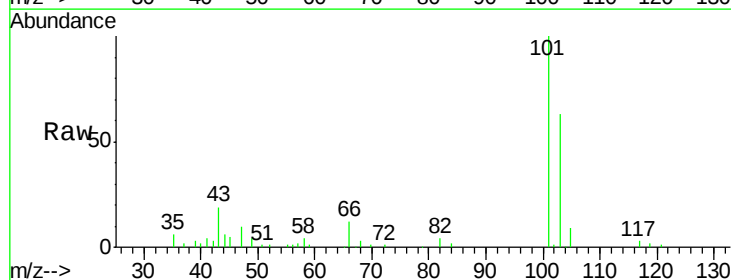
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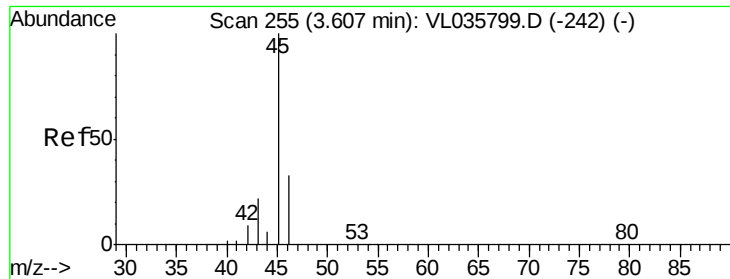
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#11
 Trichlorofluoromethane
 Concen: 0.252 ppbv
 RT: 3.91 min Scan# 349
 Delta R.T. -0.04 min
 Lab File: VL035985.D
 Acq: 18 Nov 2020 22:45

Tgt Ion: 101 Resp: 65240
 Ion Ratio Lower Upper
 101 100
 103 63.0 53.0 79.4





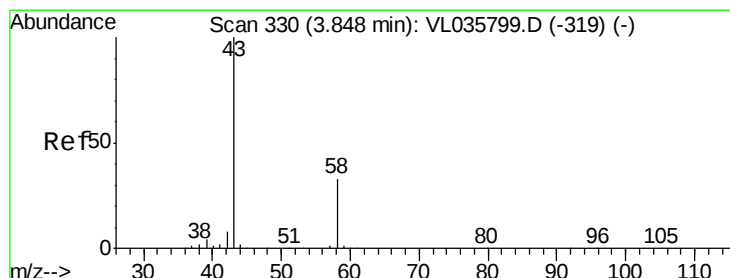
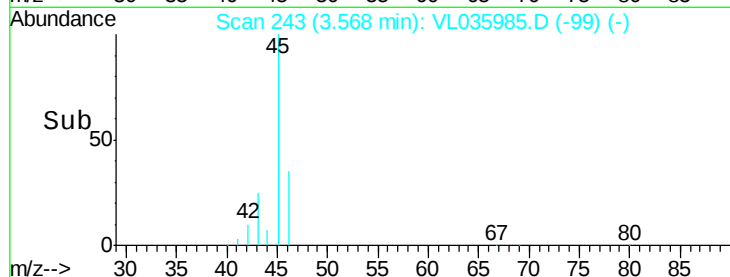
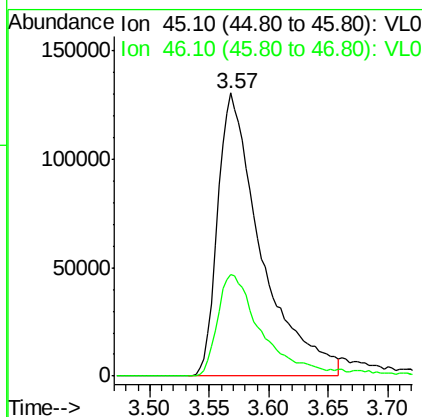
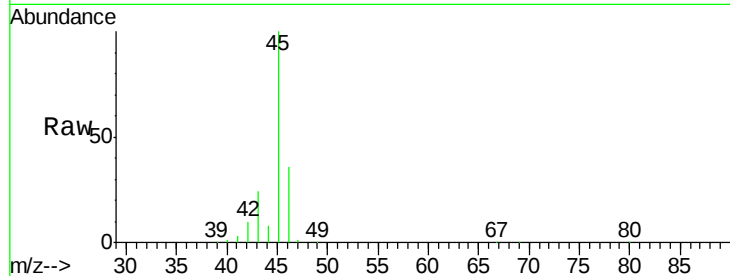
#13
Ethanol
Concen: 31.802 ppbv
RT: 3.57 min Scan# 243
Delta R.T. -0.04 min
Lab File: VL035985.D
Acq: 18 Nov 2020 22:45

Instrument :
MSVOA_L
ClientSampled :
QA1

Tot Ion	45	46	Ratio	Lower	Upper
Resp: 331412	100	38.7		16.1	64.5

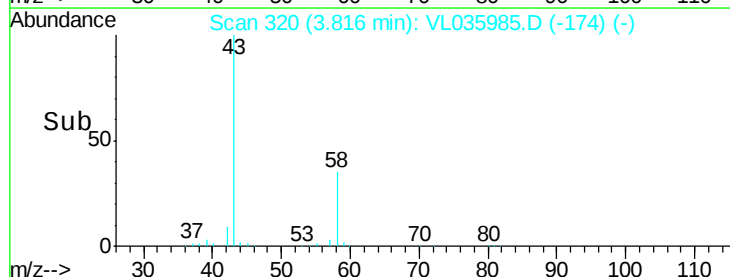
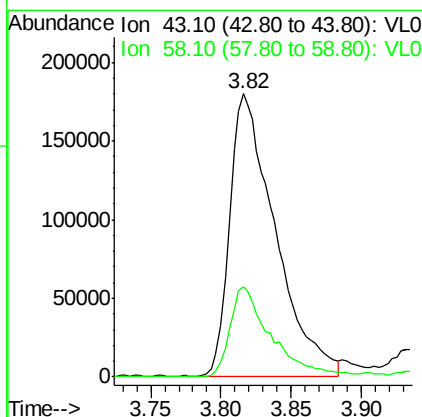
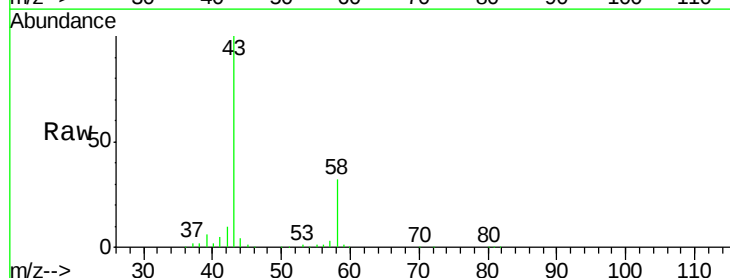
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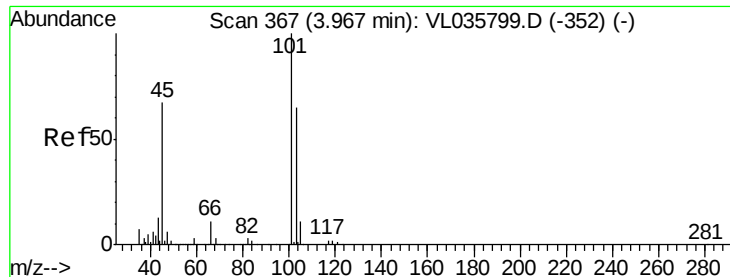
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#15
Acetone
Concen: 3.452 ppbv
RT: 3.82 min Scan# 320
Delta R.T. -0.03 min
Lab File: VL035985.D
Acq: 18 Nov 2020 22:45

Tgt Ion	43	58	Ratio	Lower	Upper
Resp: 404411	100	29.5		27.5	41.3





#19

Isopropyl Alcohol

Concen: 1.550 ppbv

RT: 3.94 min Scan# 358

Delta R.T. -0.03 min

Lab File: VL035985.D

Acq: 18 Nov 2020 22:45

Instrument :

MSVOA_L

ClientSampleId :

QA1

Tot Ion: 45 Resp: 111578

Ion Ratio Lower Upper

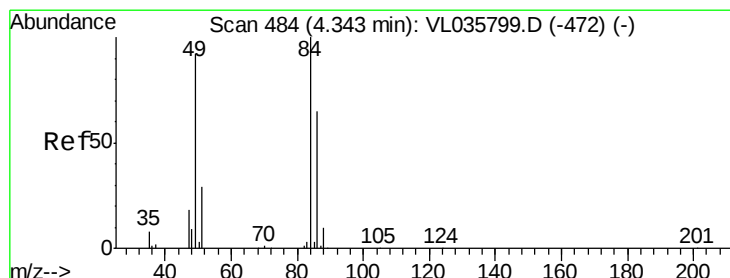
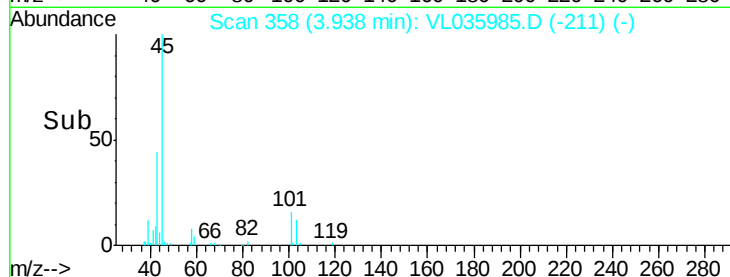
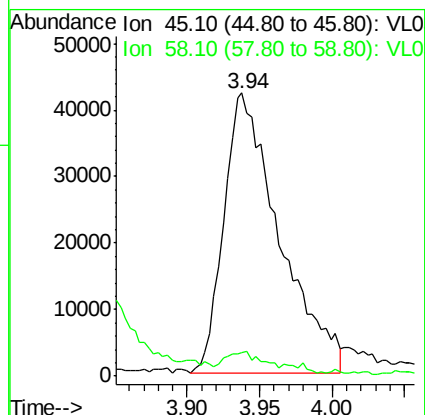
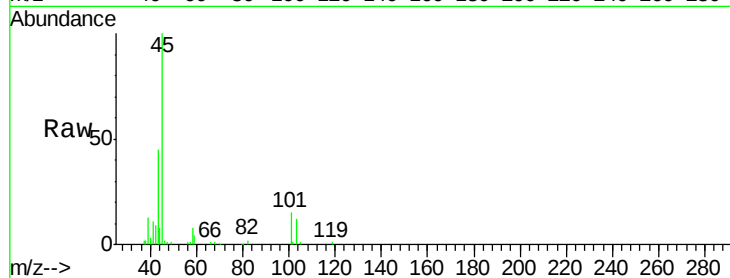
45 100

58 7.8 2.6 3.8#

Manual Integrations
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#20

Methylene Chloride

Concen: 4.380 ppbv

RT: 4.30 min Scan# 472

Delta R.T. -0.04 min

Lab File: VL035985.D

Acq: 18 Nov 2020 22:45

Tgt Ion: 84 Resp: 361243

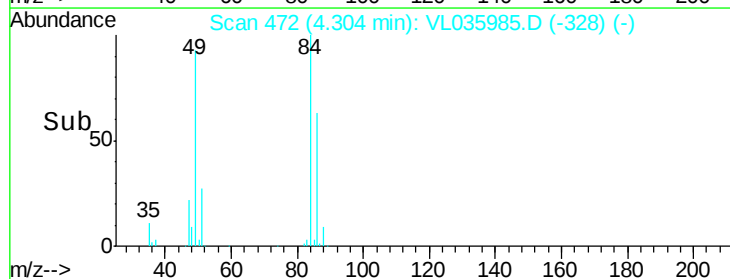
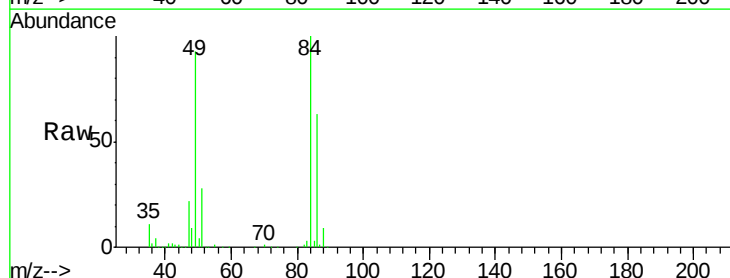
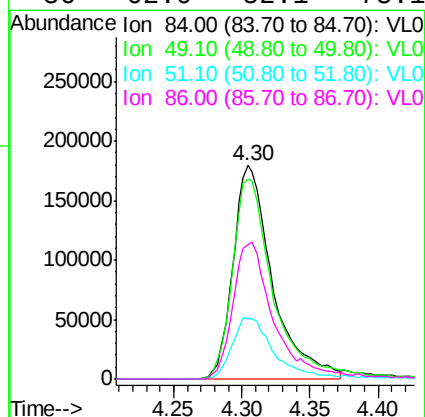
Ion Ratio Lower Upper

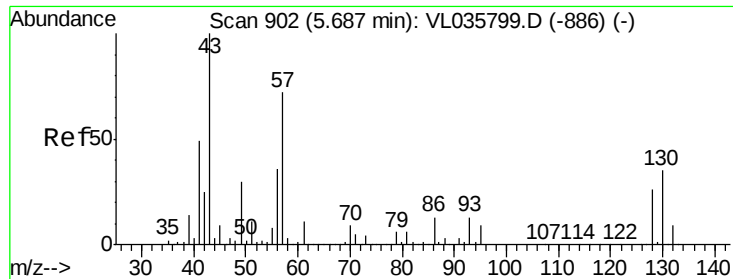
84 100

49 93.2 73.8 110.8

51 28.3 23.0 34.4

86 62.9 52.1 78.1





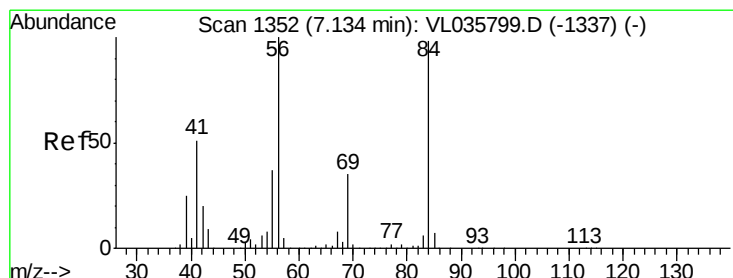
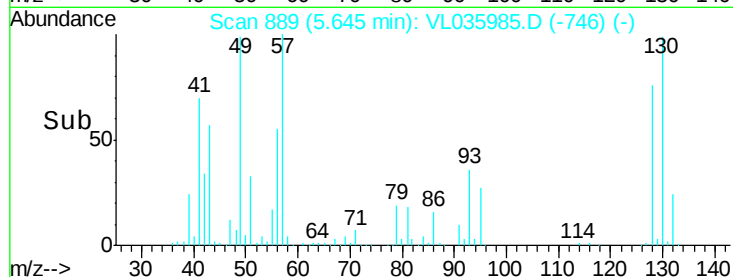
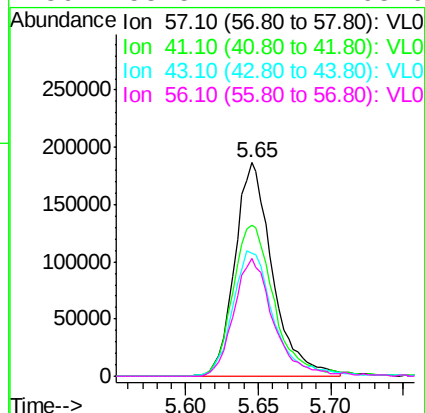
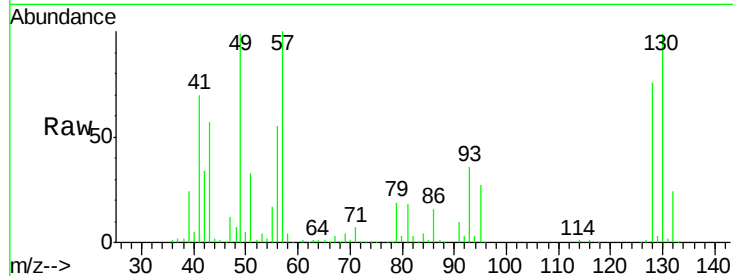
#26
Hexane
Concen: 2.649 ppbv
RT: 5.65 min Scan# 889
Delta R.T. -0.04 min
Lab File: VL035985.D
Acq: 18 Nov 2020 22:45

Instrument :
MSVOA_L
ClientSampled :
QA1

Tot Ion	Ratio	Lower	Upper
57	100		
41	79.4	58.9	88.3
43	64.5	150.2	225.2#
56	58.5	42.4	63.6

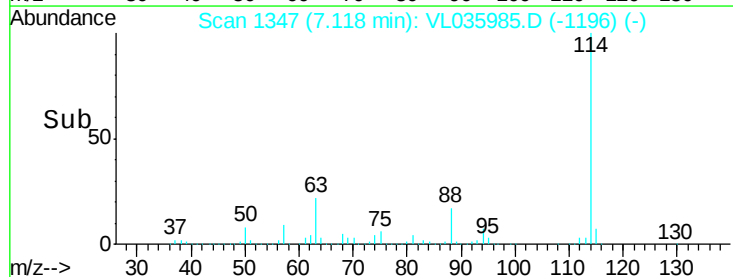
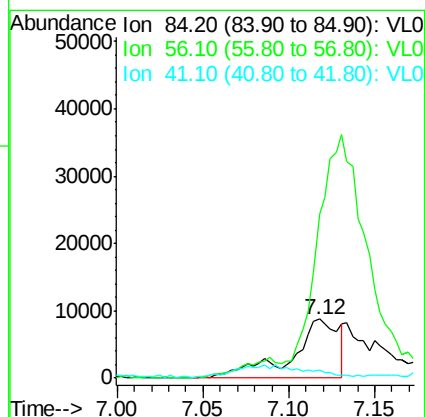
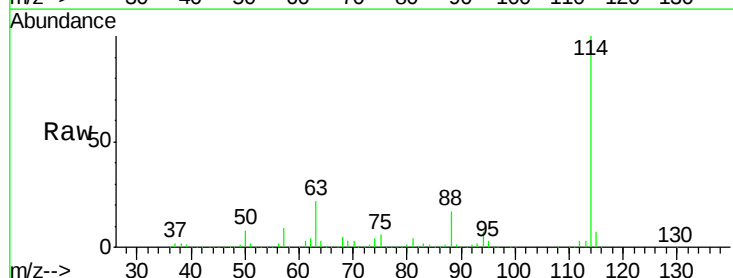
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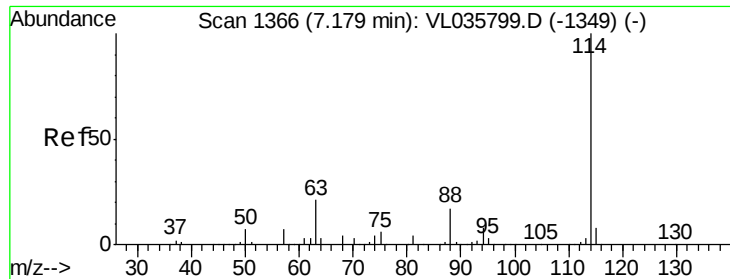
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#30
Cyclohexane
Concen: 0.120 ppbv m
RT: 7.12 min Scan# 1347
Delta R.T. -0.02 min
Lab File: VL035985.D
Acq: 18 Nov 2020 22:45

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





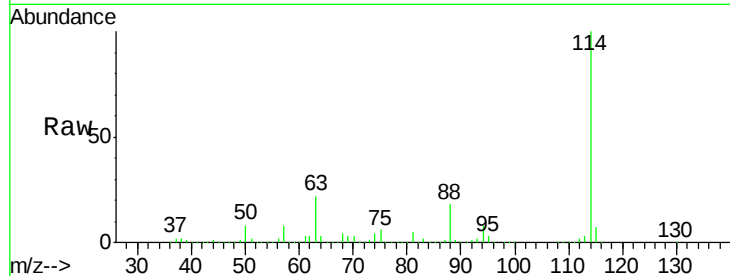
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.13 min Scan# 1351
 Delta R.T. -0.05 min
 Lab File: VL035985.D
 Acq: 18 Nov 2020 22:45

Instrument :
 MSVOA_L
 ClientSampleID :
 OA1

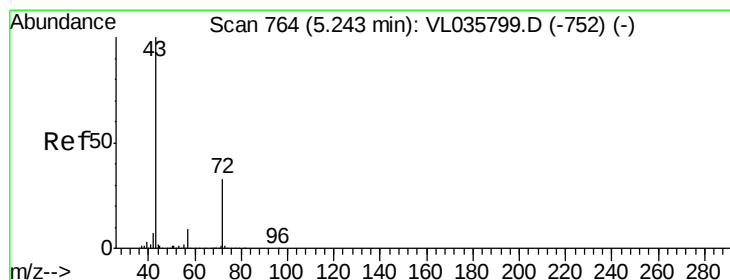
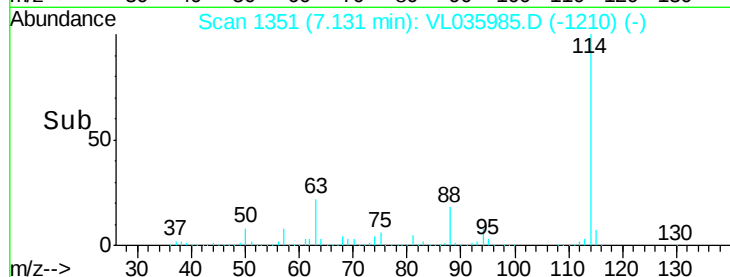
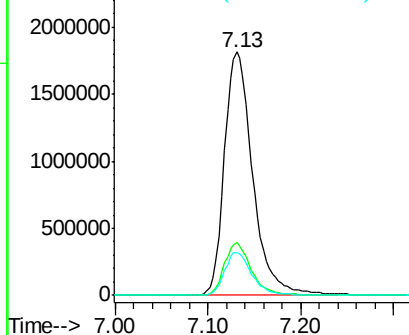
Tot Ion:114 Resp: 3854732
 Ion Ratio Lower Upper
 114 100
 63 20.9 16.1 24.1
 88 17.3 13.7 20.5

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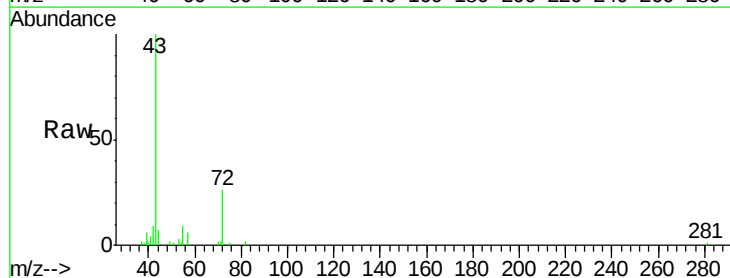


Abundance Ion 114.10 (113.80 to 114.80): V
 2500000
 Ion 63.10 (62.80 to 63.80): VL0
 Ion 88.10 (87.80 to 88.80): VL0

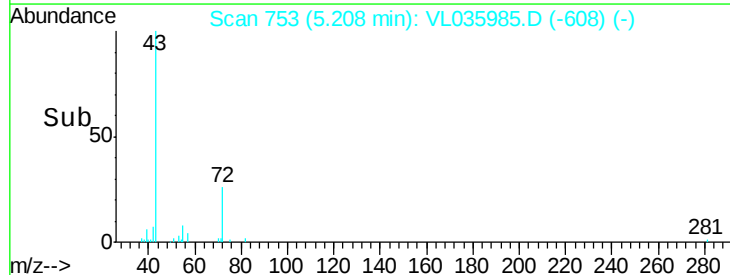
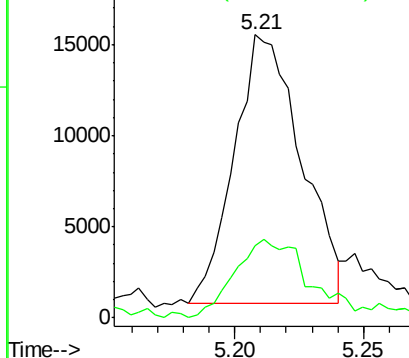


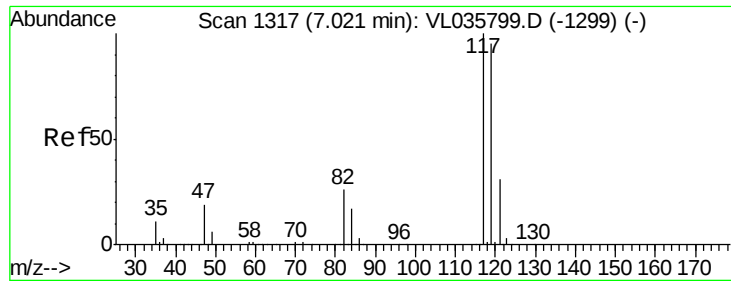
#34
 2-Butanone
 Concen: 0.214 ppbv
 RT: 5.21 min Scan# 753
 Delta R.T. -0.04 min
 Lab File: VL035985.D
 Acq: 18 Nov 2020 22:45

Tgt Ion: 43 Resp: 26739
 Ion Ratio Lower Upper
 43 100
 72 36.1 26.5 39.7



Abundance Ion 43.10 (42.80 to 43.80): VL0
 Ion 72.10 (71.80 to 72.80): VL0





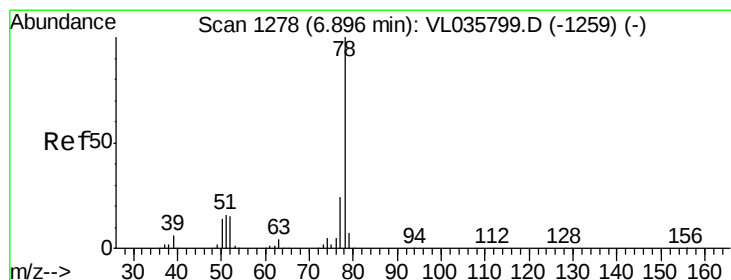
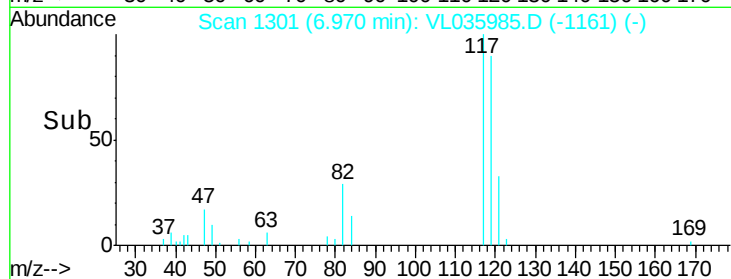
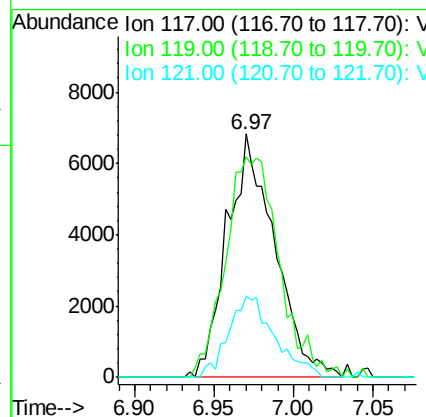
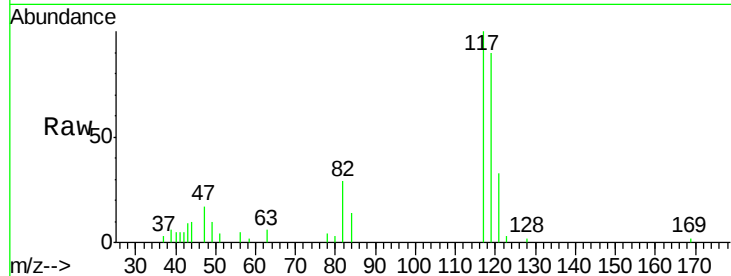
#35
Carbon Tetrachloride
Concen: 0.069 ppbv m
RT: 6.97 min Scan# 1301
Delta R.T. -0.05 min
Lab File: VL035985.D
Acq: 18 Nov 2020 22:45

Instrument :
MSVOA_L
ClientSampled :
OA1

Tot Ion	Ratio	Lower	Upper
117	100		
119	90.3	75.6	113.4
121	33.4	25.1	37.7

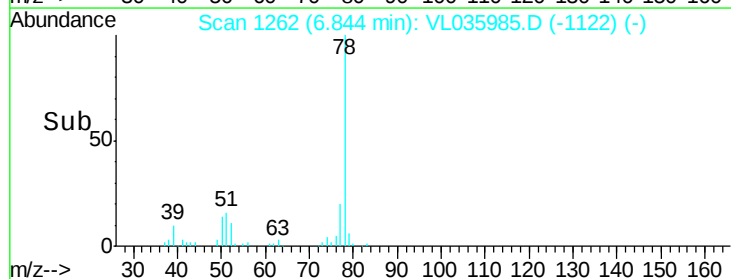
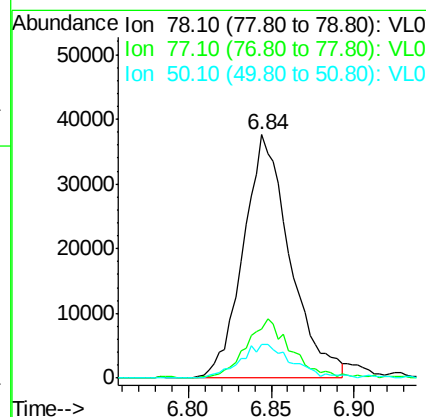
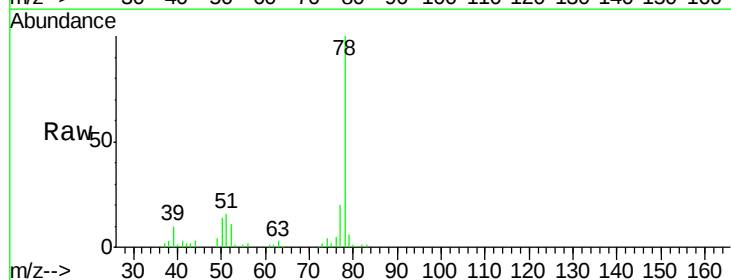
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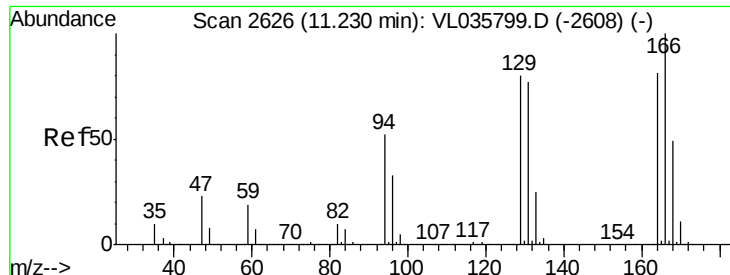
MMDadoda
11/20/2020 12:28:05 PM



#36
Benzene
Concen: 0.256 ppbv
RT: 6.84 min Scan# 1262
Delta R.T. -0.05 min
Lab File: VL035985.D
Acq: 18 Nov 2020 22:45

Tgt Ion	Ratio	Lower	Upper
78	100		
77	20.1	19.3	28.9
50	13.9	11.4	17.2





#52

Tetrachloroethene

Concen: 0.085 ppbv m

RT: 11.18 min Scan# 2611

Delta R.T. -0.05 min

Lab File: VL035985.D

Acq: 18 Nov 2020 22:45

Instrument :

MSVOA_L

ClientSampled :

QA1

Tot Ion:164 Resp: 11500

Ion Ratio Lower Upper

164 100

166 132.6 99.3 148.9

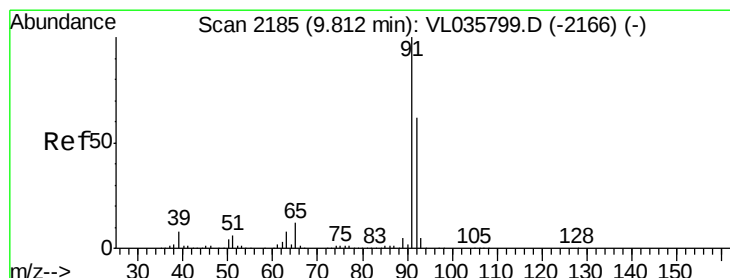
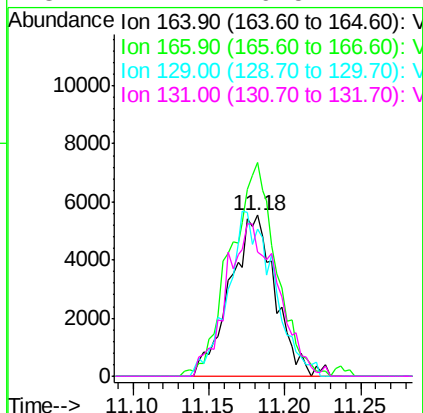
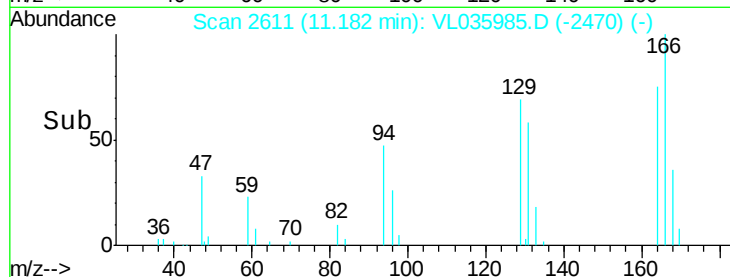
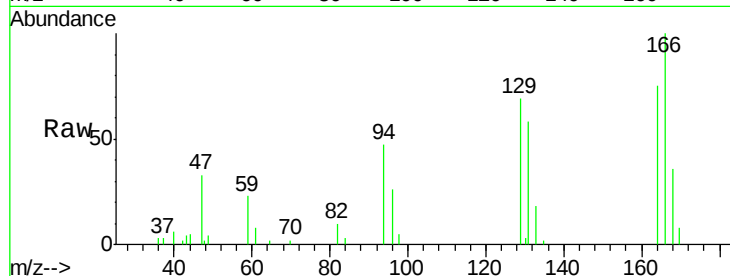
129 91.1 79.3 118.9

131 77.1 76.5 114.7

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#53

Toluene

Concen: 3.506 ppbv

RT: 9.76 min Scan# 2169

Delta R.T. -0.05 min

Lab File: VL035985.D

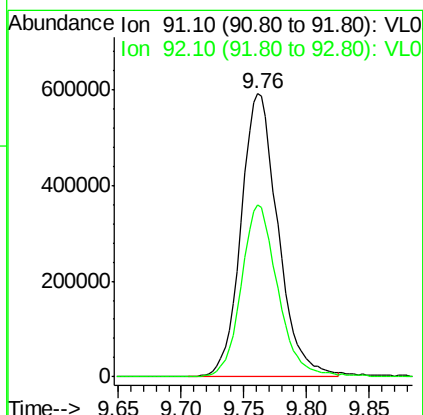
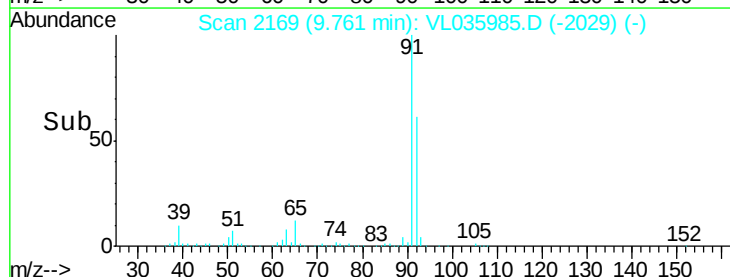
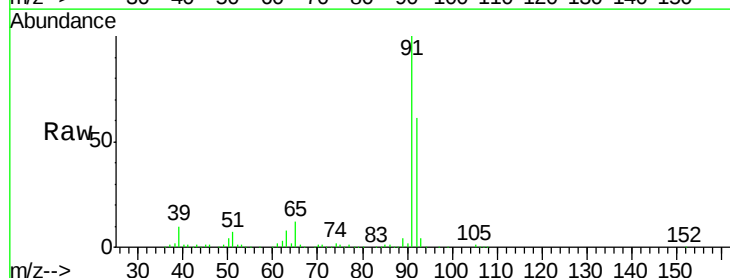
Acq: 18 Nov 2020 22:45

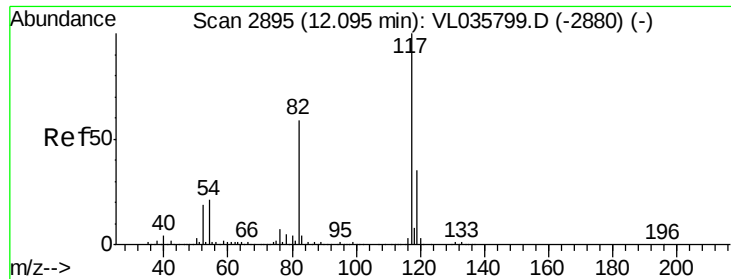
Tgt Ion: 91 Resp: 1212399

Ion Ratio Lower Upper

91 100

92 60.5 49.8 74.6





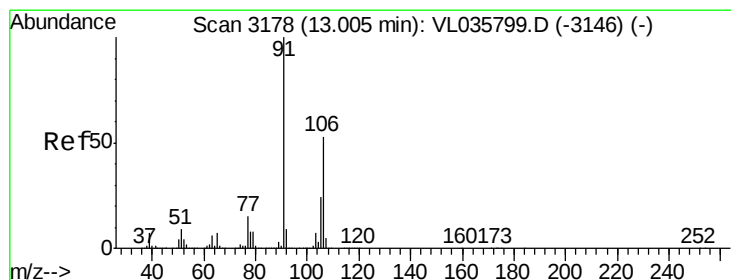
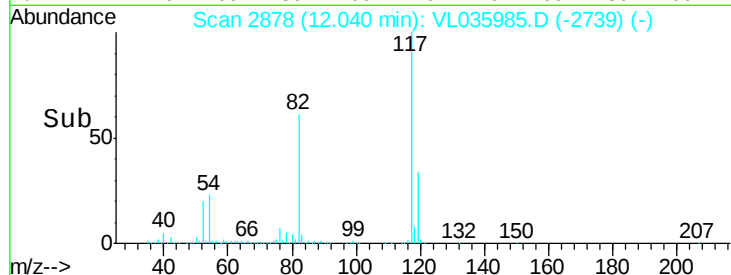
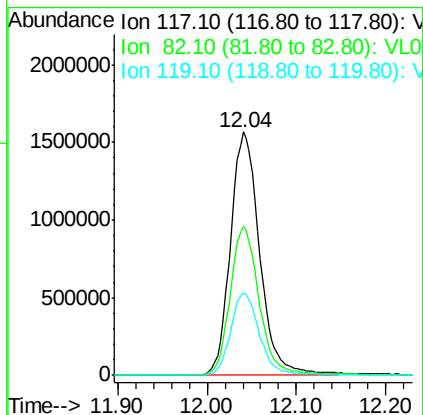
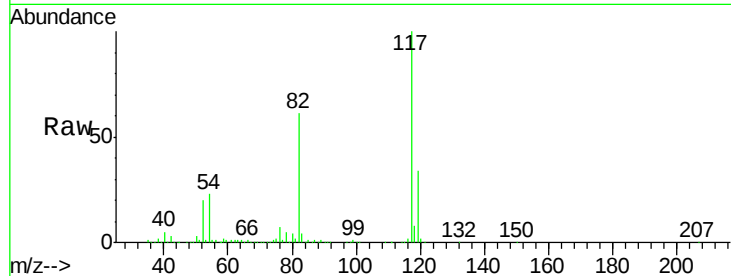
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.04 min Scan# 2878
Delta R.T. -0.05 min
Lab File: VL035985.D
Acq: 18 Nov 2020 22:45

Instrument :
MSVOA_L
ClientSampled :
QA1

Tot Ion:117 Resp: 3558030
Ion Ratio Lower Upper
117 100
82 61.6 50.6 76.0
119 34.0 52.6 78.8#

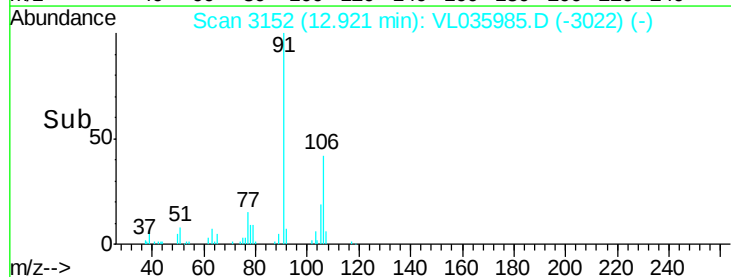
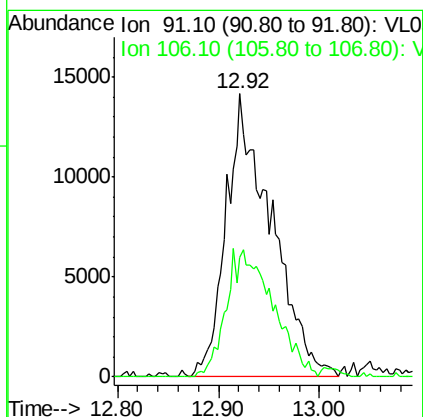
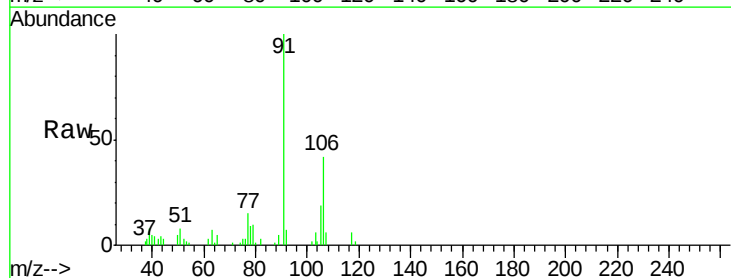
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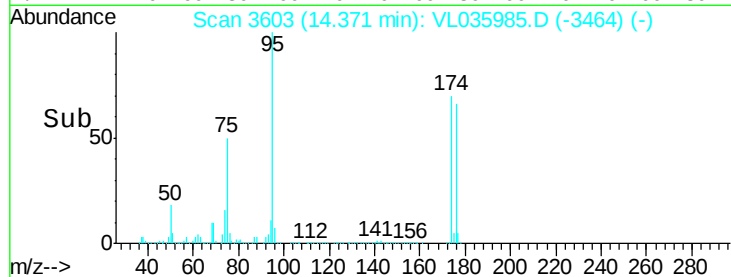
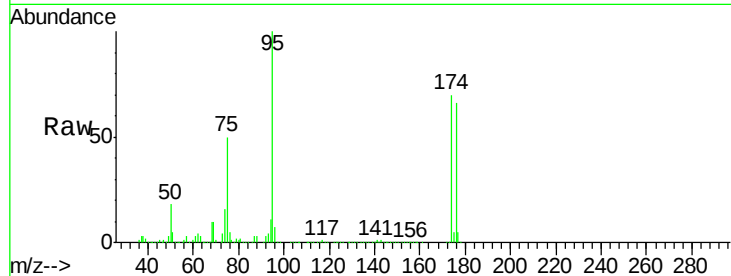
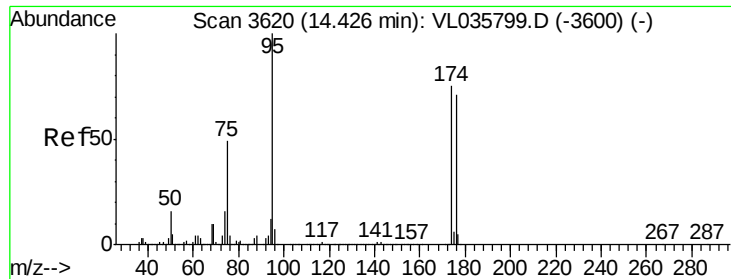
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#59
m/p-Xylene
Concen: 0.120 ppbv m
RT: 12.92 min Scan# 3152
Delta R.T. -0.08 min
Lab File: VL035985.D
Acq: 18 Nov 2020 22:45

Tgt Ion: 91 Resp: 43825
Ion Ratio Lower Upper
91 100
106 0.0 39.5 59.3#





#68

1-Bromo-4-Fluorobenzene

Concen: 10.497 ppbv

RT: 14.37 min Scan# 3603

Delta R.T. -0.05 min

Lab File: VL035985.D

Acq: 18 Nov 2020 22:45

Tot Ion: 95 Resp: 2653569

Ion Ratio Lower Upper

95 100

174 71.2 59.8 89.6

175 5.0 4.3 6.5

Instrument :

MSVOA_L

ClientSampleId :

QA1

Manual Integrations
APPROVED

MMDadoda

11/20/2020 12:28:05 PM

