

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL121620\
 Data File : VL036179.D
 Acq On : 16 Dec 2020 23:09
 Operator : SY/AP
 Sample : L5061-01DL2 40X
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Dec 17 03:42:06 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL120720AIR.M
 Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Mon Dec 07 16:56:49 2020
 QLast Update : Mon Dec 07 16:56:49 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.67	49	1533804	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.18	114	2929427	10.00	ppbv	-0.02
55) Chlorobenzene-d5	12.10	117	2647464	10.00	ppbv	-0.01

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.43	95	2264719	10.77	ppbv	-0.01
Spiked Amount	10.000	Range	65 - 135	Recovery	=	107.70%

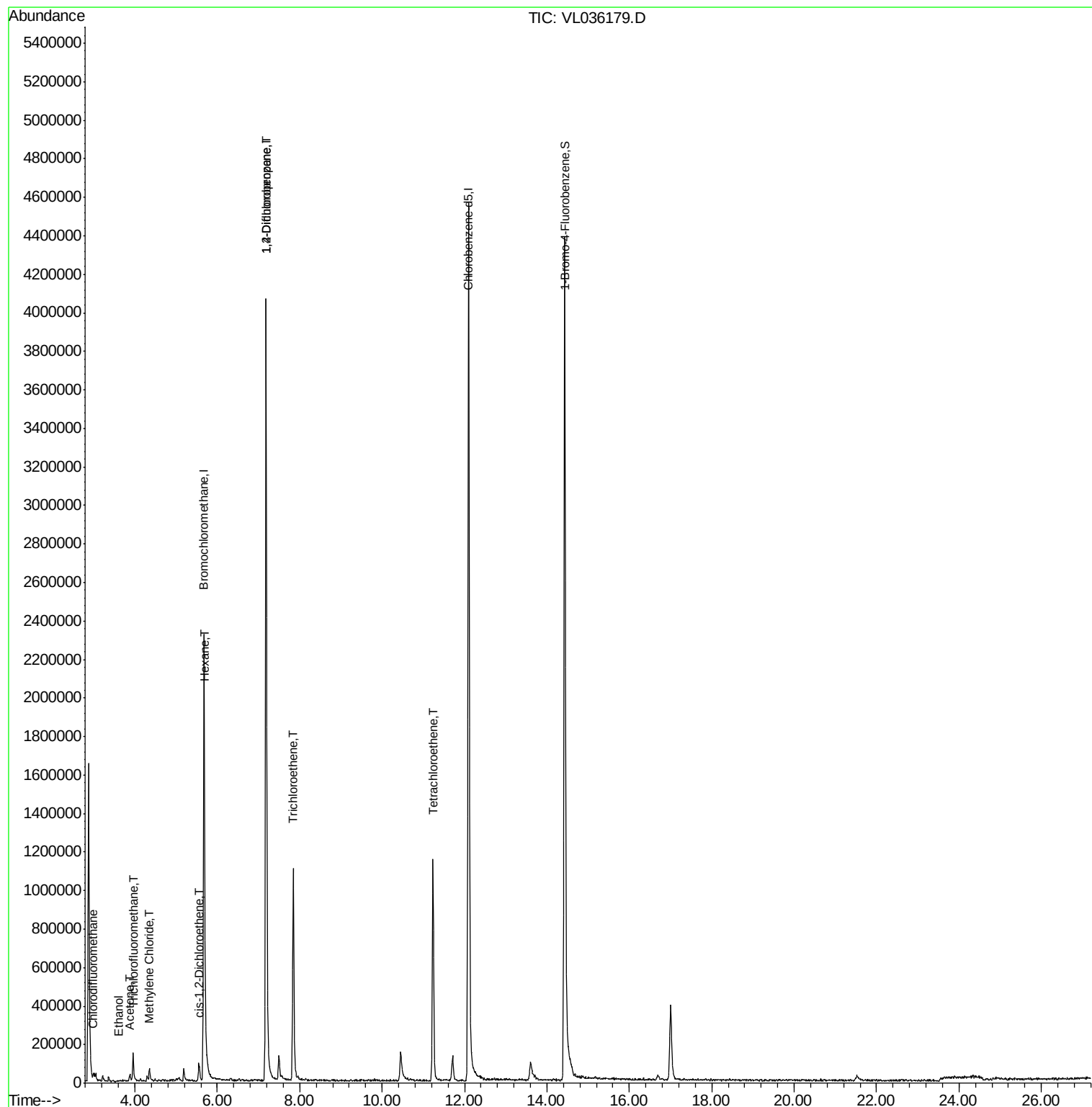
Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
3) Chlorodifluoromethane	2.98	51	36068	0.206	ppbv	100
11) Trichlorofluoromethane	3.95	101	92569	0.440	ppbv	99
13) Ethanol	3.61	45	786	0.065	ppbv #	29
15) Acetone	3.87	43	16598	0.090	ppbv #	49
20) Methylene Chloride	4.35	84	12142	0.161	ppbv #	93
26) Hexane	5.69	57	13900	0.084	ppbv #	1
31) cis-1,2-Dichloroethene	5.56	61	32293	0.214	ppbv #	73
38) Trichloroethene	7.85	130	313976	3.383	ppbv	87
39) 1,2-Dichloropropane	7.18	63	975121	9.946	ppbv #	23
52) Tetrachloroethene	11.24	164	105154	1.170	ppbv	93

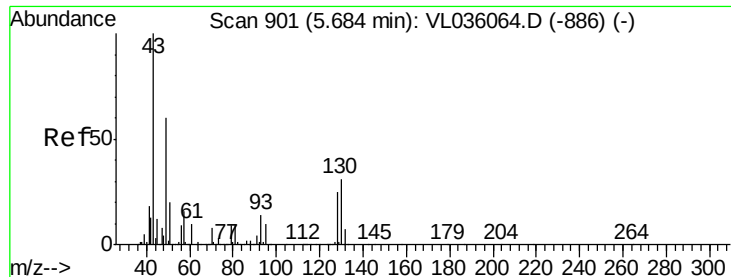
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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MSVOA_L
ClientSampleId :

Quant Time: Dec 17 03:42:06 2020
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL120720AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Dec 07 16:56:49 2020
QLast Update : Mon Dec 07 16:56:49 2020
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.67 min Scan# 898

Delta R.T. -0.01 min

Lab File: VL036179.D

Acq: 16 Dec 2020 23:09

Instrument :

MSVOA_L

ClientSampleId :

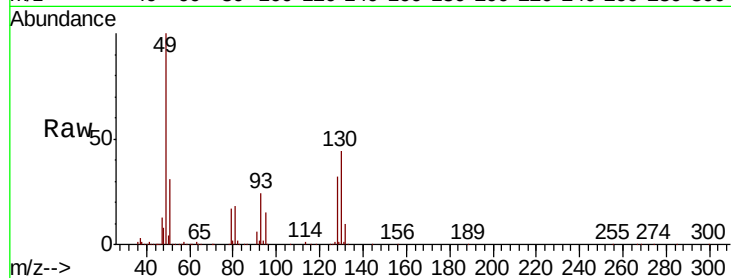
Tot Ion: 49 Resp: 1533804

Ion Ratio Lower Upper

49 100

128 35.7 21.1 63.1

130 45.1 27.1 81.3



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): VL0

Ion 130.00 (129.70 to 130.70): VL0

5.67

800000

600000

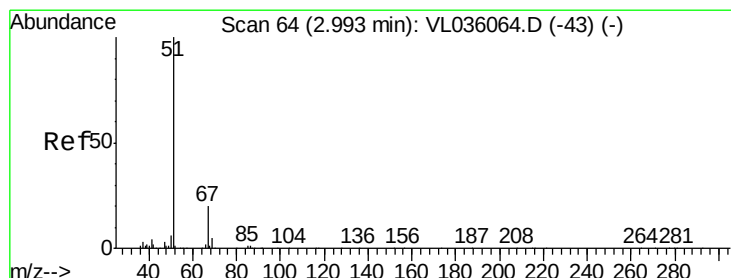
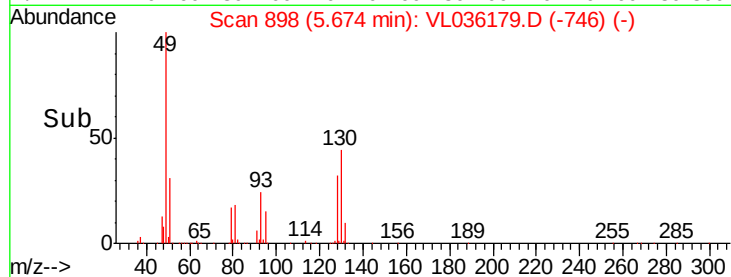
400000

200000

0

5.60 5.65 5.70 5.75

Time-->



#3

Chlorodifluoromethane

Concen: 0.206 ppbv

RT: 2.98 min Scan# 61

Delta R.T. -0.01 min

Lab File: VL036179.D

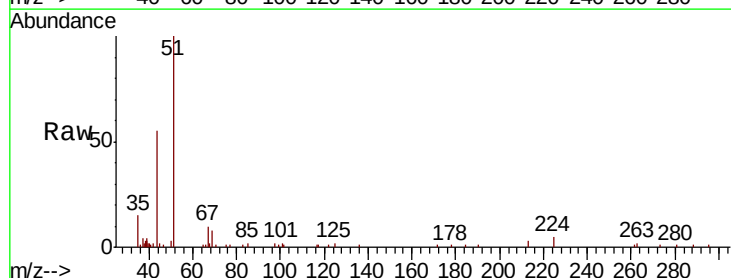
Acq: 16 Dec 2020 23:09

Tgt Ion: 51 Resp: 36068

Ion Ratio Lower Upper

51 100

67 18.1 14.3 21.5



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0

2.98

20000

15000

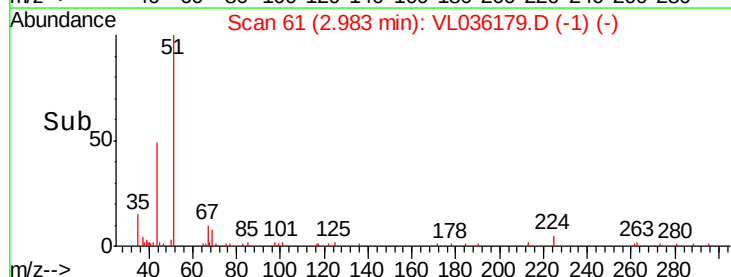
10000

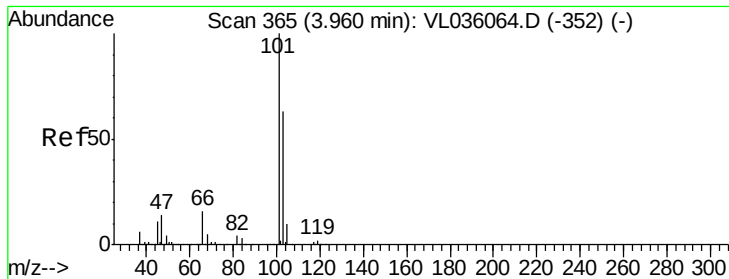
5000

0

2.90 3.00 3.10

Time-->





#11

Trichlorofluoromethane

Concen: 0.440 ppbv

RT: 3.95 min Scan# 363

Delta R.T. -0.01 min

Lab File: VL036179.D

Acq: 16 Dec 2020 23:09

Instrument :

MSVOA_L

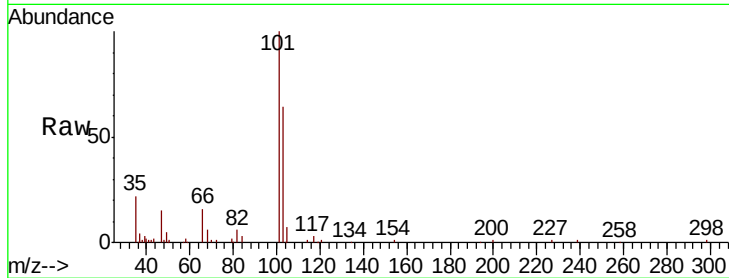
ClientSampleId :

Tot Ion:101 Resp: 92569

Ion Ratio Lower Upper

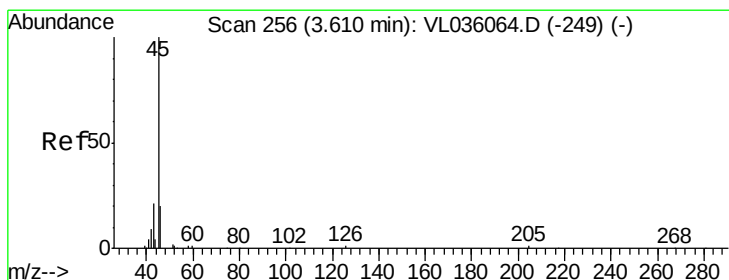
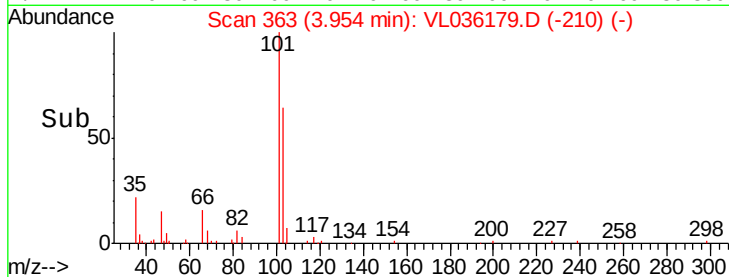
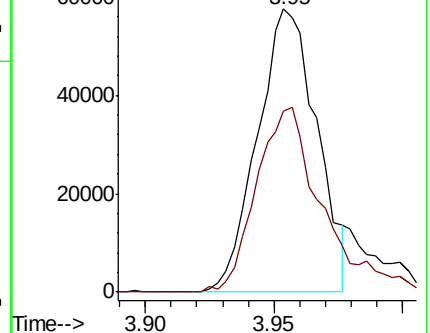
101 100

103 63.7 50.3 75.5



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V



#13

Ethanol

Concen: 0.065 ppbv

RT: 3.61 min Scan# 256

Delta R.T. -0.00 min

Lab File: VL036179.D

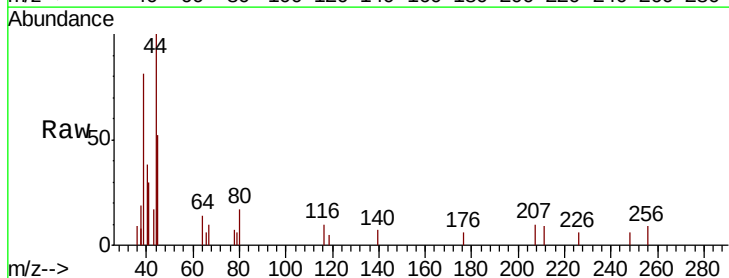
Acq: 16 Dec 2020 23:09

Tgt Ion: 45 Resp: 786

Ion Ratio Lower Upper

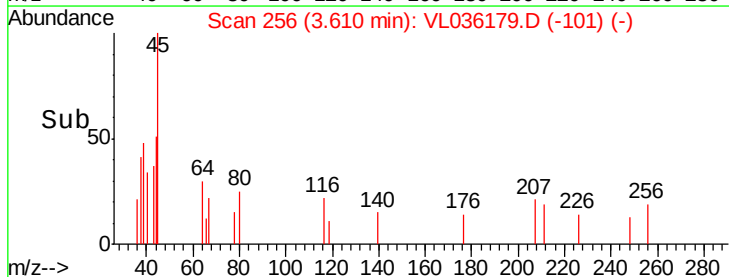
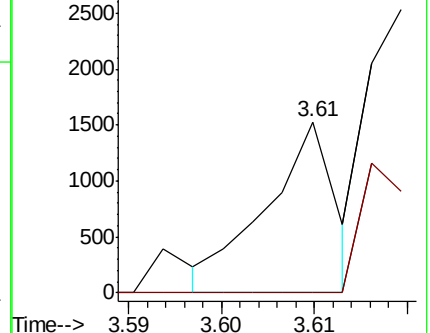
45 100

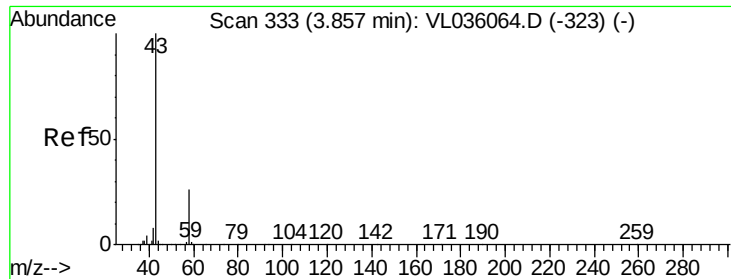
46 0.0 19.0 75.8#



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 46.10 (45.80 to 46.80): VL0





#15

Acetone

Concen: 0.090 ppbv

RT: 3.87 min Scan# 337

Delta R.T. 0.01 min

Lab File: VL036179.D

Acq: 16 Dec 2020 23:09

Instrument :

MSVOA_L

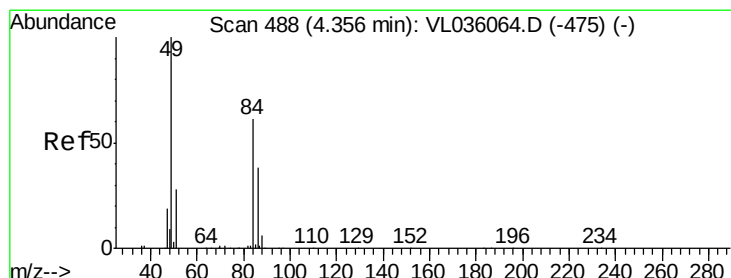
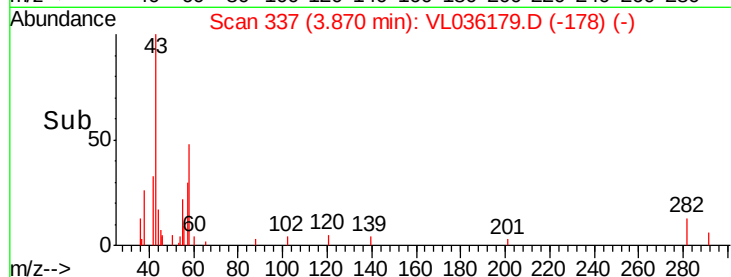
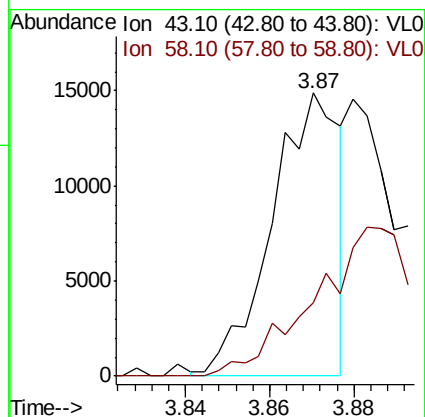
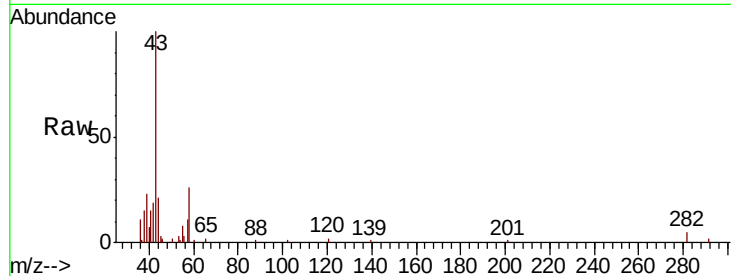
ClientSampleId :

Tot Ion: 43 Resp: 16598

Ion Ratio Lower Upper

43 100

58 0.0 20.9 31.3#



#20

Methylene Chloride

Concen: 0.161 ppbv

RT: 4.35 min Scan# 486

Delta R.T. -0.01 min

Lab File: VL036179.D

Acq: 16 Dec 2020 23:09

Tgt Ion: 84 Resp: 12142

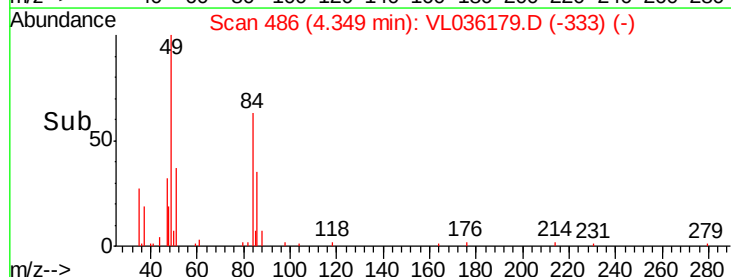
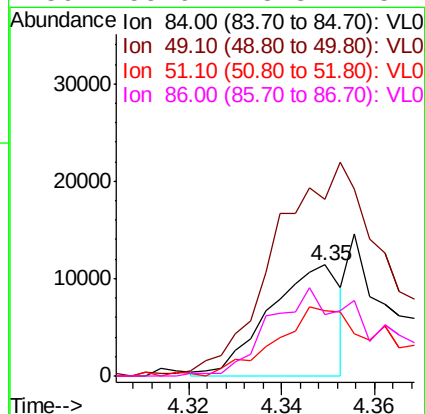
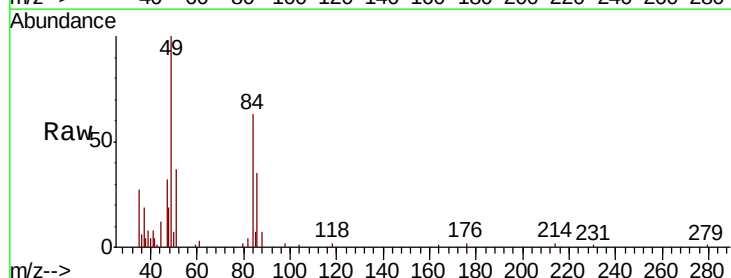
Ion Ratio Lower Upper

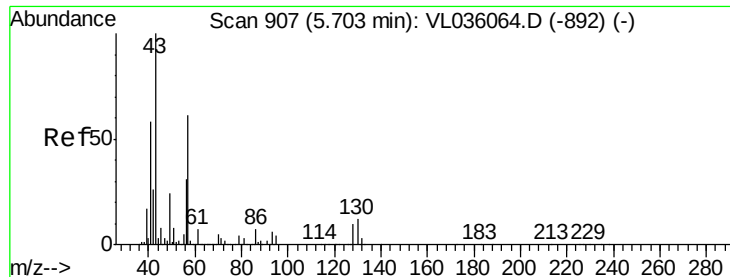
84 100

49 160.2 133.0 199.4

51 58.5 38.9 58.3#

86 55.6 48.8 73.2

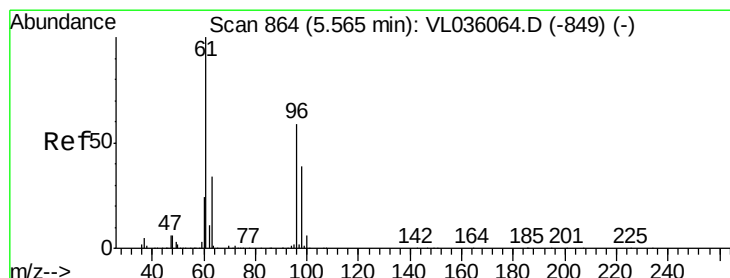
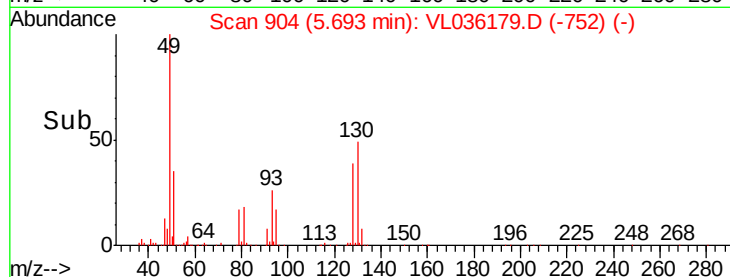
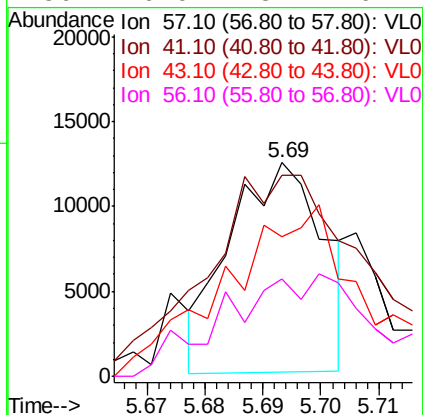
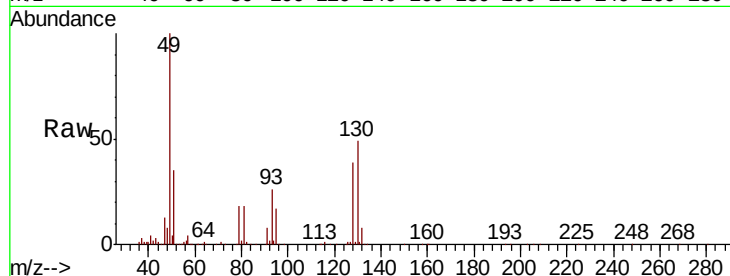




#26
Hexane
Concen: 0.084 ppbv
RT: 5.69 min Scan# 904
Delta R.T. -0.01 min
Lab File: VL036179.D
Acq: 16 Dec 2020 23:09

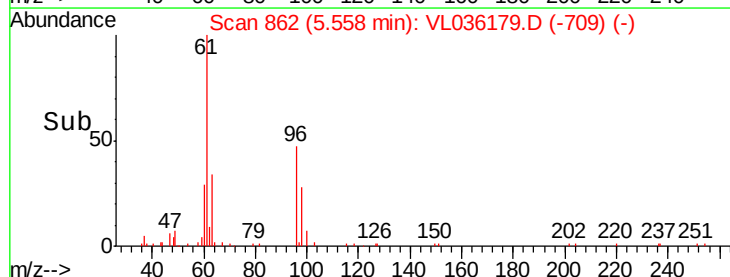
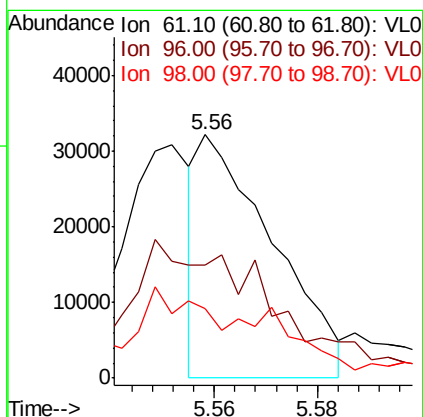
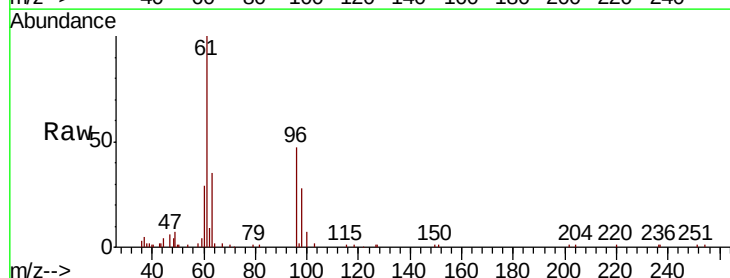
Instrument :
MSVOA_L
ClientSampleId :

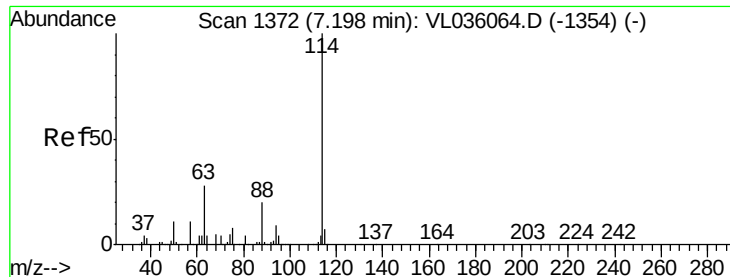
Tot Ion:	57	Resp:	13900
Ion	Ratio	Lower	Upper
57	100		
41	200.1	82.9	124.3#
43	0.0	199.9	299.9#
56	0.0	43.1	64.7#



#31
cis-1,2-Dichloroethene
Concen: 0.214 ppbv
RT: 5.56 min Scan# 862
Delta R.T. -0.01 min
Lab File: VL036179.D
Acq: 16 Dec 2020 23:09

Tgt Ion:	61	Resp:	32293
Ion	Ratio	Lower	Upper
61	100		
96	37.5	47.3	70.9#
98	24.3	31.4	47.0#

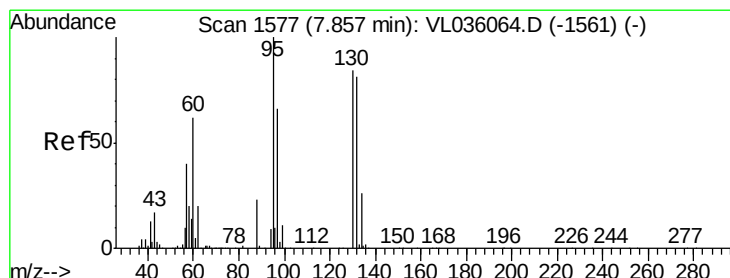
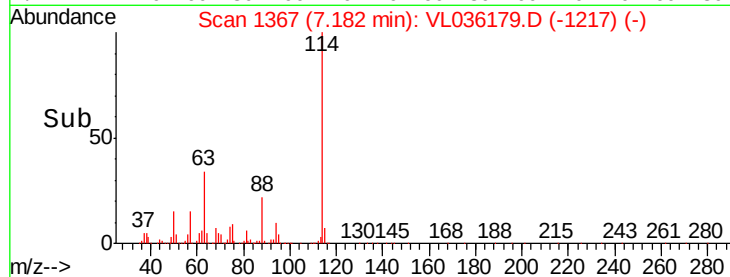
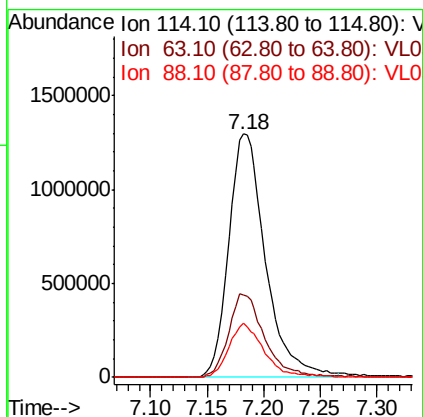
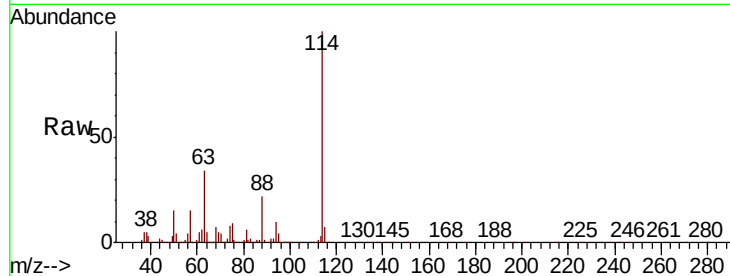




#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.18 min Scan# 1367
 Delta R.T. -0.02 min
 Lab File: VL036179.D
 Acq: 16 Dec 2020 23:09

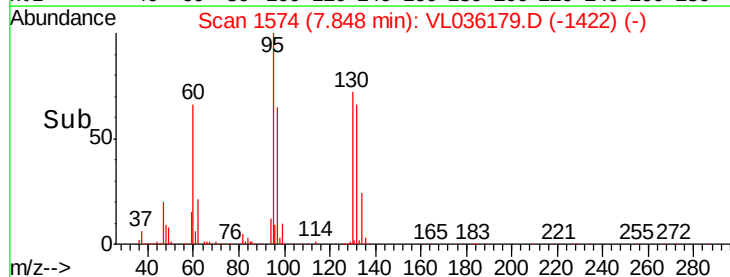
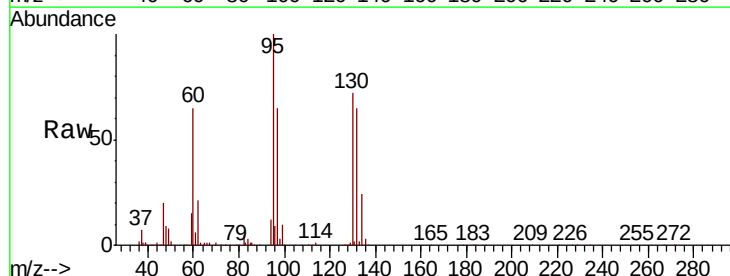
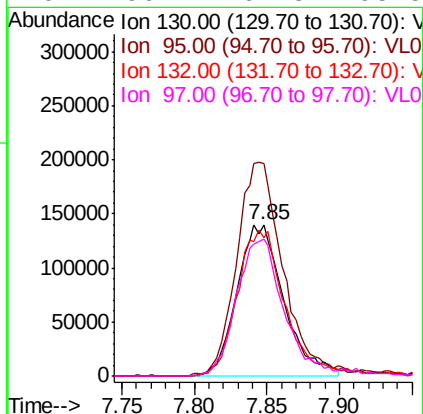
Instrument :
 MSVOA_L
 ClientSampleId :

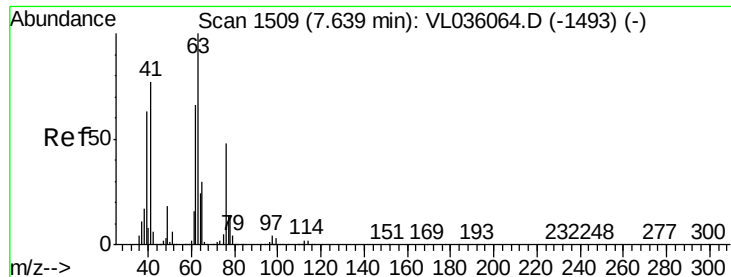
Tot Ion:114 Resp: 2929427
 Ion Ratio Lower Upper
 114 100
 63 34.2 23.6 35.4
 88 21.7 15.8 23.6



#38
 Trichloroethene
 Concen: 3.383 ppbv
 RT: 7.85 min Scan# 1574
 Delta R.T. -0.01 min
 Lab File: VL036179.D
 Acq: 16 Dec 2020 23:09

Tgt Ion:130 Resp: 313976
 Ion Ratio Lower Upper
 130 100
 95 139.5 95.2 142.8
 132 91.5 76.9 115.3
 97 90.2 62.3 93.5





#39

1,2-Dichloropropane

Concen: 9.946 ppbv

RT: 7.18 min Scan# 1366

Delta R.T. -0.46 min

Lab File: VL036179.D

Acq: 16 Dec 2020 23:09

Instrument :

MSVOA_L

ClientSampleId :

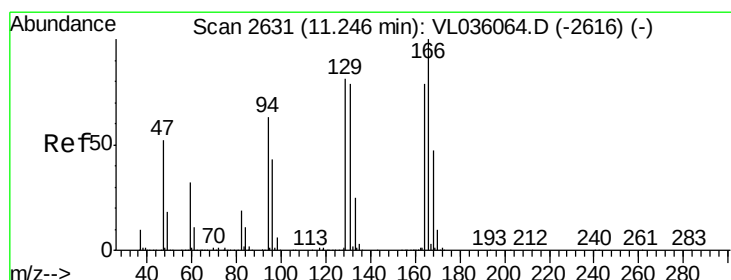
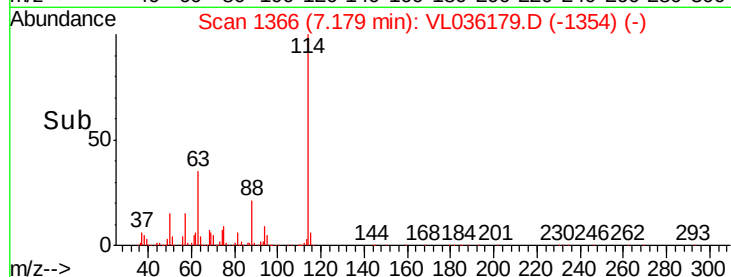
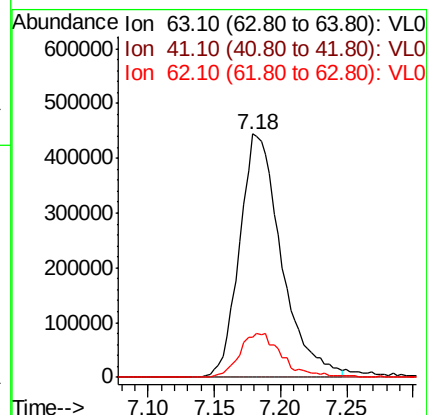
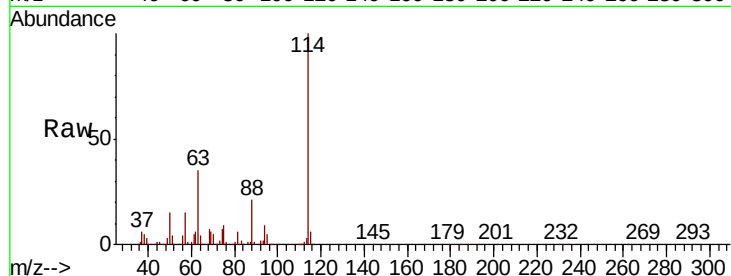
Tot Ion: 63 Resp: 975121

Ion Ratio Lower Upper

63 100

41 0.2 61.9 92.9#

62 16.2 52.5 78.7#



#52

Tetrachloroethene

Concen: 1.170 ppbv

RT: 11.24 min Scan# 2630

Delta R.T. -0.00 min

Lab File: VL036179.D

Acq: 16 Dec 2020 23:09

Tgt Ion: 164 Resp: 105154

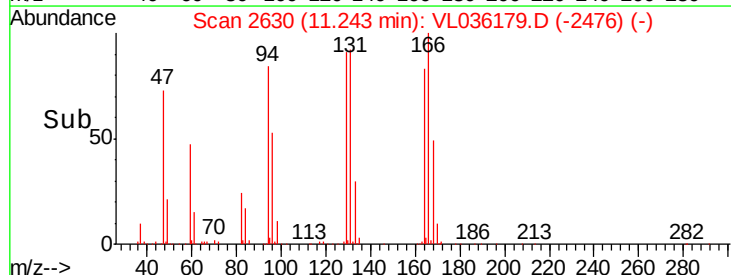
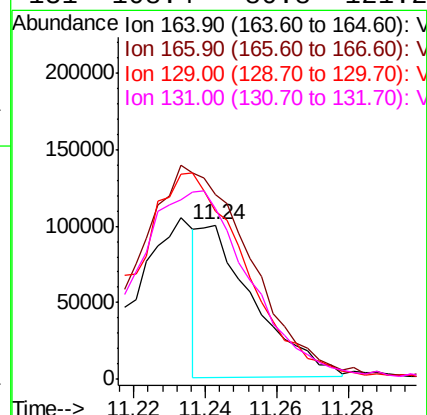
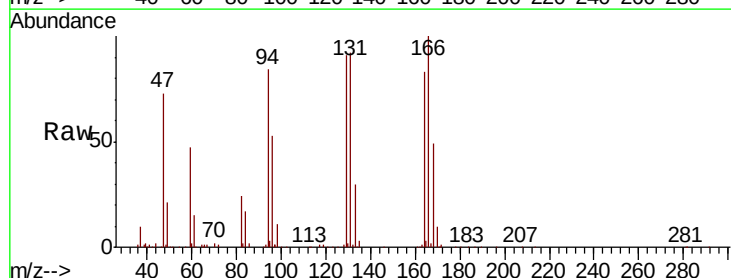
Ion Ratio Lower Upper

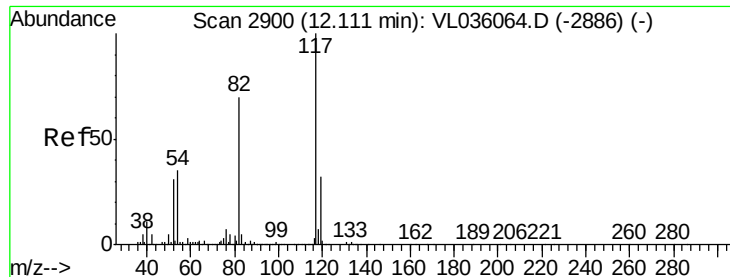
164 100

166 119.3 101.9 152.9

129 108.6 82.1 123.1

131 108.4 80.8 121.2

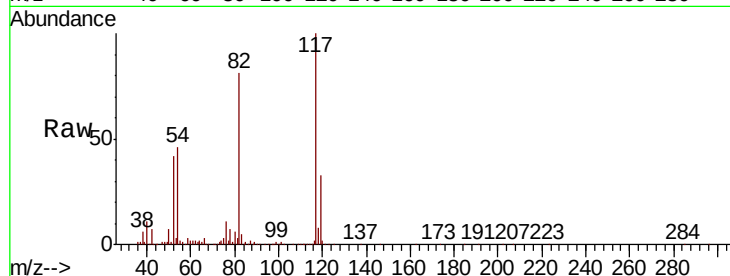




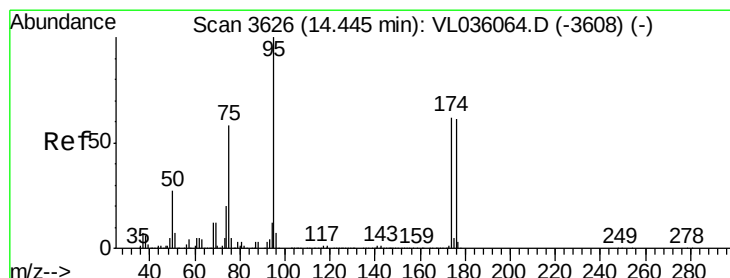
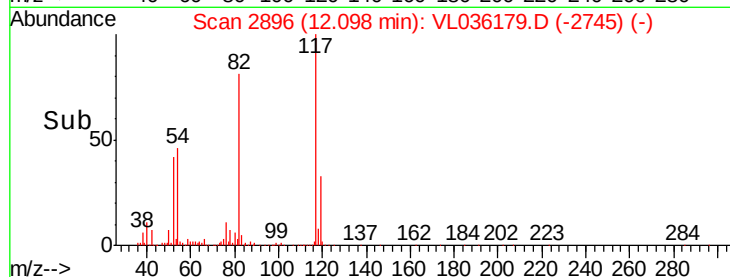
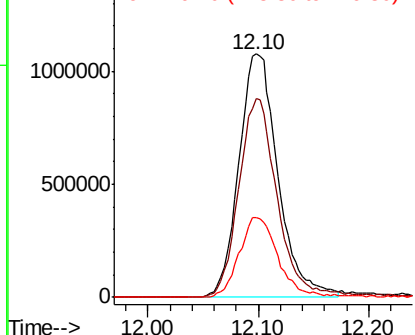
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.10 min Scan# 2896
Delta R.T. -0.01 min
Lab File: VL036179.D
Acq: 16 Dec 2020 23:09

Instrument :
MSVOA_L
ClientSampled :

Tot Ion:117 Resp: 2647464
Ion Ratio Lower Upper
117 100
82 82.4 0.0 0.0#
119 33.0 0.0 0.0#

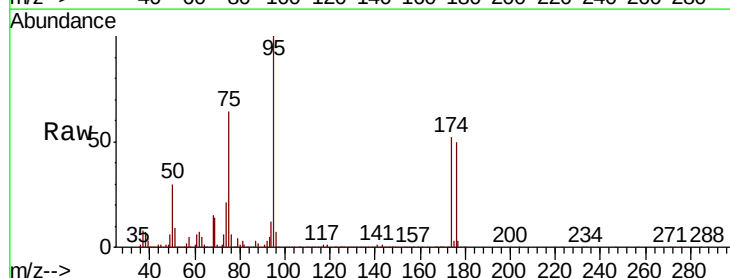


Abundance Ion 117.10 (116.80 to 117.80): V
Ion 82.10 (81.80 to 82.80): VL0
Ion 119.10 (118.80 to 119.80): V



#68
1-Bromo-4-Fluorobenzene
Concen: 10.773 ppbv
RT: 14.43 min Scan# 3622
Delta R.T. -0.01 min
Lab File: VL036179.D
Acq: 16 Dec 2020 23:09

Tgt Ion: 95 Resp: 2264719
Ion Ratio Lower Upper
95 100
174 57.0 50.7 76.1
175 3.9 4.0 6.0#



Abundance Ion 95.10 (94.80 to 95.80): VL0
Ion 174.00 (173.70 to 174.70): V
Ion 175.00 (174.70 to 175.70): V

