

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL072920\
 Data File : VL035245.D
 Acq On : 29 Jul 2020 14:14
 Operator : SY/AP
 Sample : L3474-01DUPDL 10X
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Jul 30 02:48:41 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL072920AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Jul 29 07:14:29 2020
 QLast Update : Wed Jul 29 07:14:29 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.66	49	1353509	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.18	114	3161548	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.11	117	2976138	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.45	95	2377649	10.00	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	100.00%

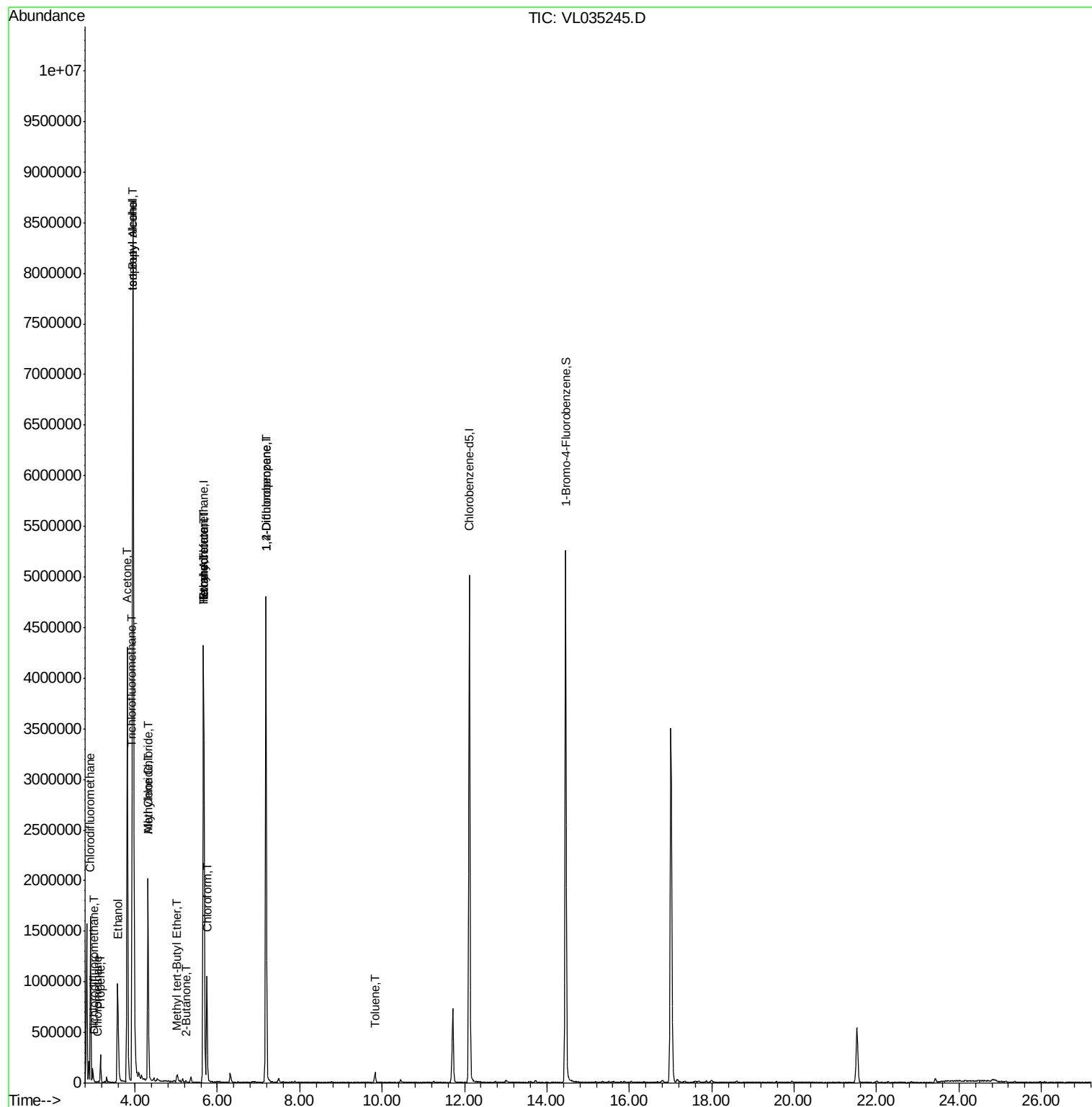
Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.01	85	10107	0.063	ppbv #	73
3) Chlorodifluoromethane	2.92	51	883408	5.896	ppbv #	56
4) Chloromethane	3.10	50	6594	0.078	ppbv #	61
9) Propene	3.16	41	58693	1.124	ppbv	94
11) Trichlorofluoromethane	3.92	101	8006	0.037	ppbv	84
13) Ethanol	3.58	45	1181667	55.592	ppbv	94
15) Acetone	3.81	43	4218933	23.368	ppbv	97
17) tert-Butyl alcohol	3.95	59	570538	3.274	ppbv	94
19) Isopropyl Alcohol	3.95	45	11536643	96.889	ppbv #	97
20) Methylene Chloride	4.32	84	666187	8.106	ppbv	95
21) Allyl Chloride	4.32	41	24137	0.235	ppbv #	20
25) Ethyl Acetate	5.67	43	664908	2.358	ppbv #	77
26) Hexane	5.68	57	970005	7.626	ppbv #	42
28) Methyl tert-Butyl Ether	5.01	73	18264	0.100	ppbv #	53
29) Chloroform	5.74	83	701457	3.288	ppbv	98
34) 2-Butanone	5.23	43	8264	0.051	ppbv #	45
39) 1,2-Dichloropropane	7.18	63	857029	9.776	ppbv #	23
41) Tetrahydrofuran	5.68	42	365130	4.631	ppbv #	47
53) Toluene	9.83	91	18623	0.080	ppbv #	1

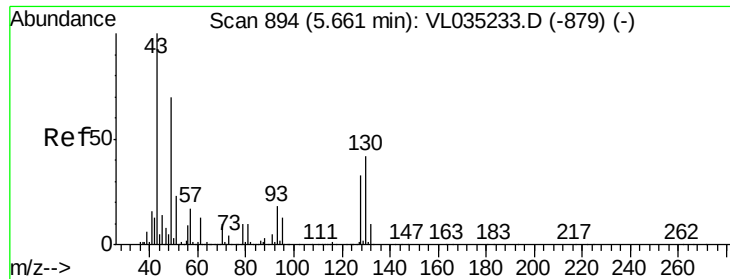
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed Jul 29 07:14:29 2020
QLast Update : Wed Jul 29 07:14:29 2020
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.66 min Scan# 893

Delta R.T. -0.00 min

Lab File: VL035245.D

Acq: 29 Jul 2020 14:14

Instrument :

MSVOA_L

ClientSampleId :

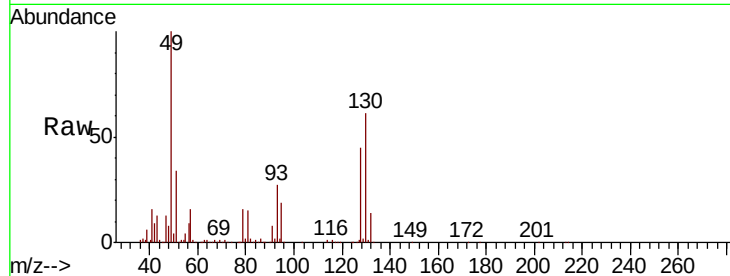
Tot Ion: 49 Resp: 1353509

Ion Ratio Lower Upper

49 100

128 48.6 24.0 72.0

130 63.3 30.7 92.1

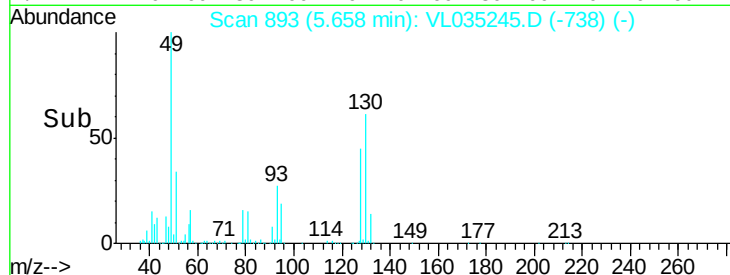


Abundance Ion 49.10 (48.80 to 49.80): VL0

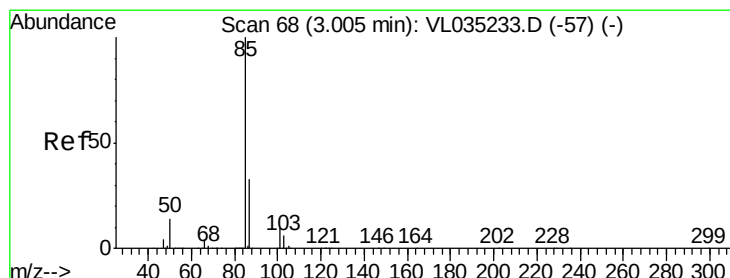
Ion 128.00 (127.70 to 128.70): V

Ion 130.00 (129.70 to 130.70): V

Time-->



Time-->



#2

Dichlorodifluoromethane

Concen: 0.063 ppbv

RT: 3.01 min Scan# 68

Delta R.T. 0.00 min

Lab File: VL035245.D

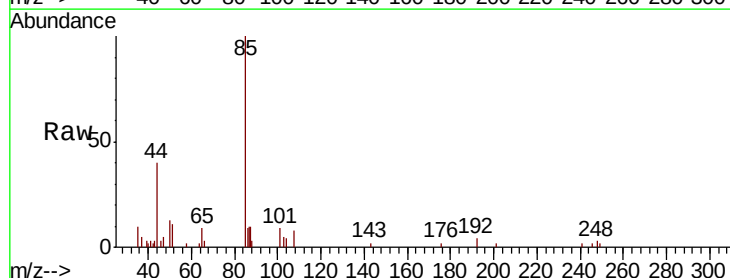
Acq: 29 Jul 2020 14:14

Tgt Ion: 85 Resp: 10107

Ion Ratio Lower Upper

85 100

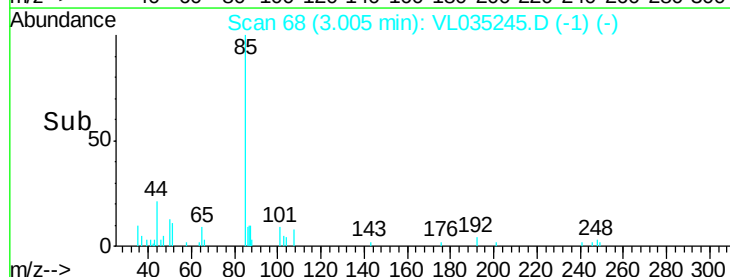
87 18.0 26.7 40.1#



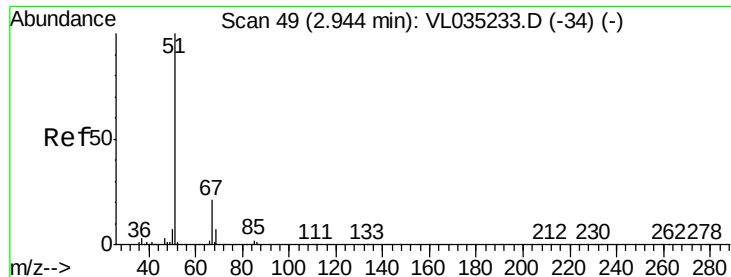
Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0

Time-->



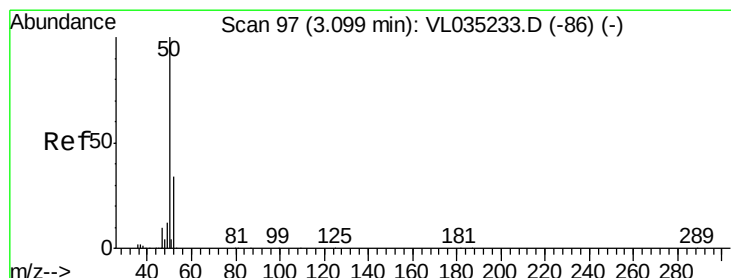
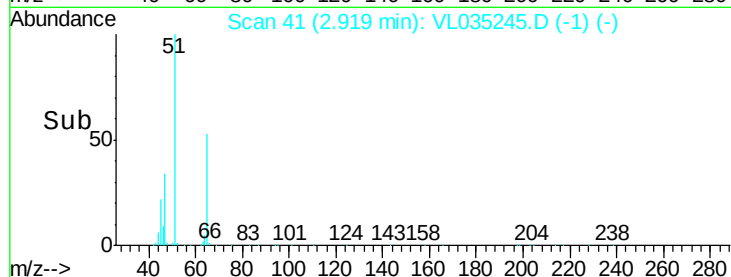
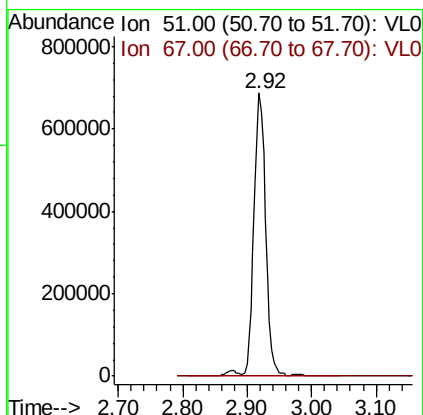
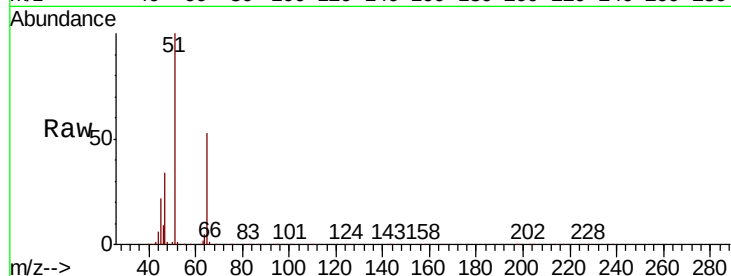
Time-->



#3
 Chlorodifluoromethane
 Concen: 5.896 ppbv
 RT: 2.92 min Scan# 41
 Delta R.T. -0.03 min
 Lab File: VL035245.D
 Acq: 29 Jul 2020 14:14

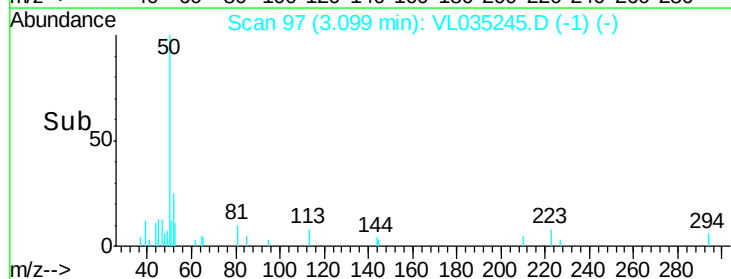
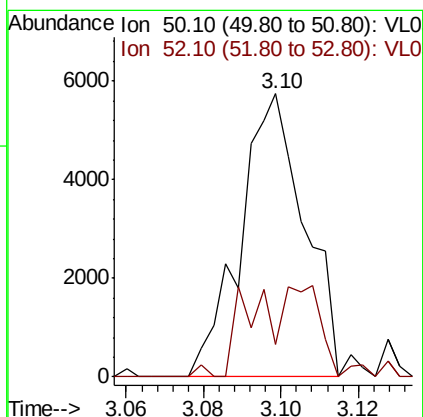
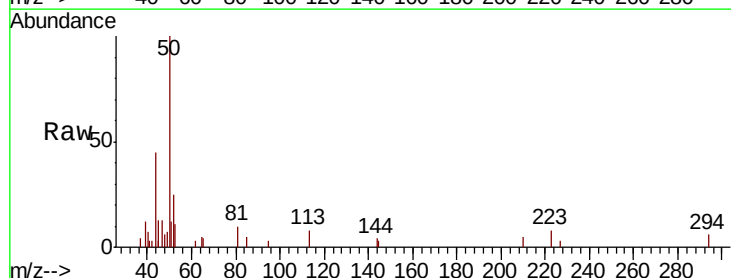
Instrument :
 MSVOA_L
 ClientSampleId :

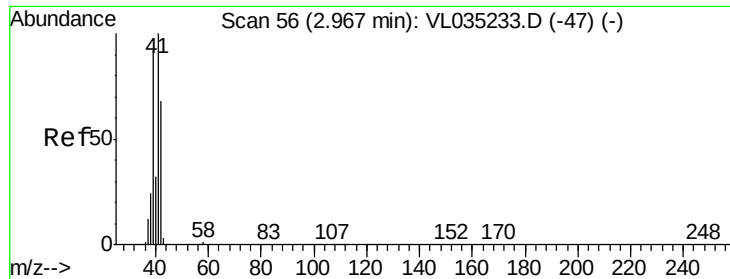
Tot Ion: 51 Resp: 883408
 Ion Ratio Lower Upper
 51 100
 67 0.2 16.6 25.0#



#4
 Chloromethane
 Concen: 0.078 ppbv
 RT: 3.10 min Scan# 97
 Delta R.T. 0.00 min
 Lab File: VL035245.D
 Acq: 29 Jul 2020 14:14

Tgt Ion: 50 Resp: 6594
 Ion Ratio Lower Upper
 50 100
 52 11.3 27.1 40.7#





#9

Propene

Concen: 1.124 ppbv

RT: 3.16 min Scan# 117

Delta R.T. 0.20 min

Lab File: VL035245.D

Acq: 29 Jul 2020 14:14

Instrument :

MSVOA_L

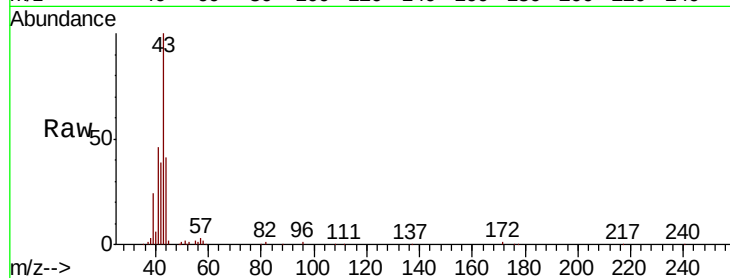
ClientSampleId :

Tot Ion: 41 Resp: 58693

Ion Ratio Lower Upper

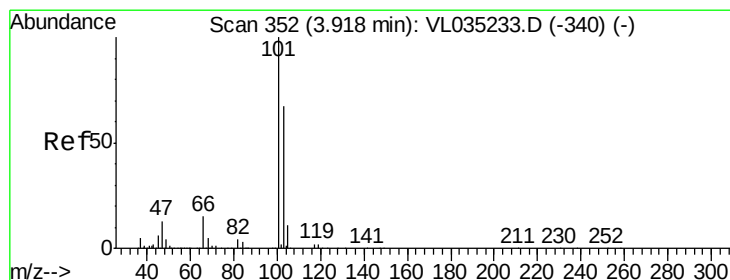
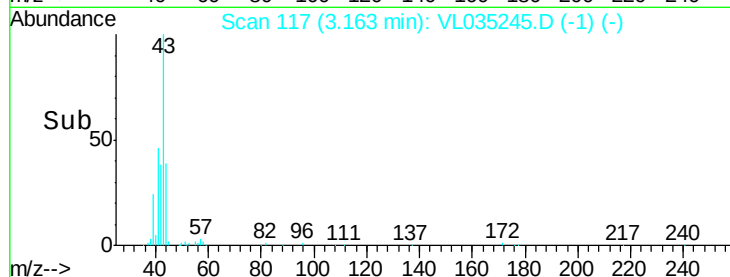
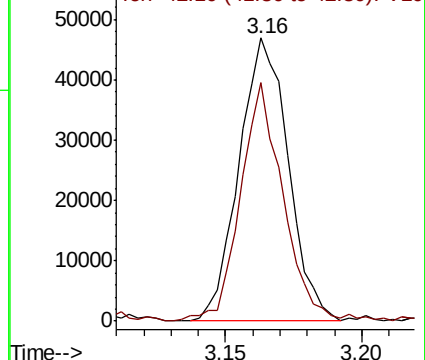
41 100

42 74.0 55.0 82.6



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0



#11

Trichlorofluoromethane

Concen: 0.037 ppbv

RT: 3.92 min Scan# 352

Delta R.T. 0.00 min

Lab File: VL035245.D

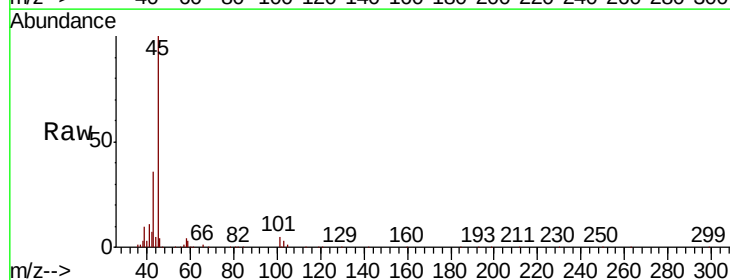
Acq: 29 Jul 2020 14:14

Tgt Ion: 101 Resp: 8006

Ion Ratio Lower Upper

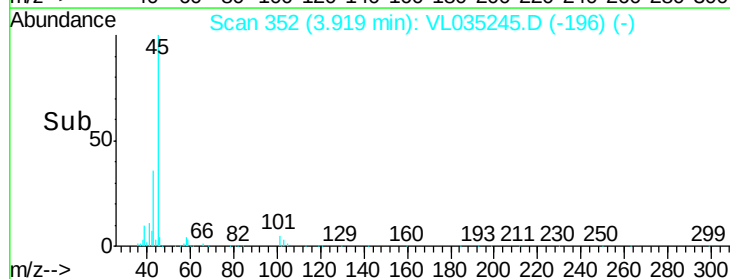
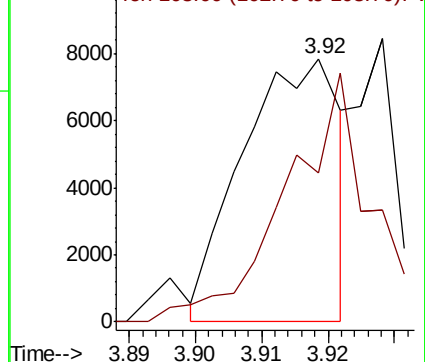
101 100

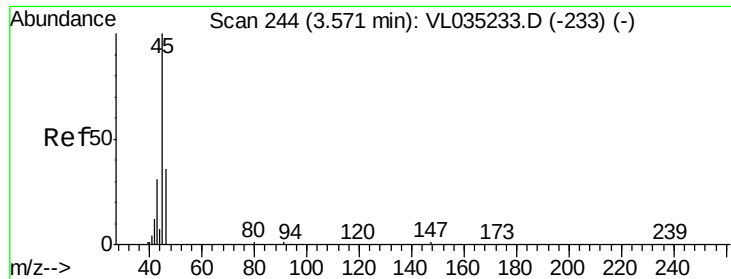
103 53.7 53.4 80.0



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V

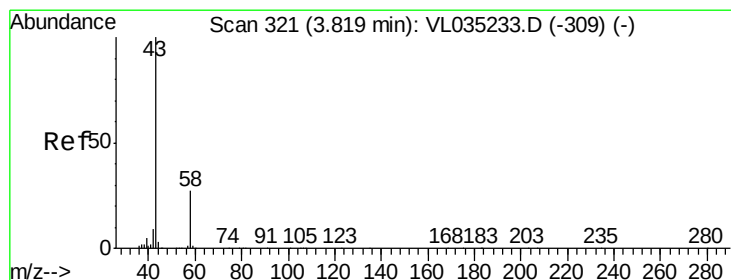
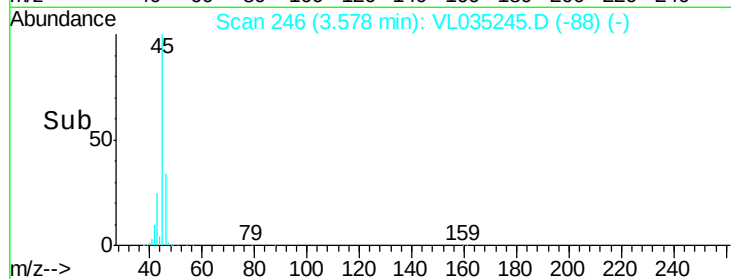
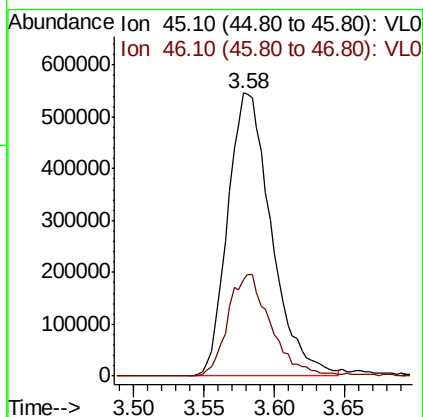
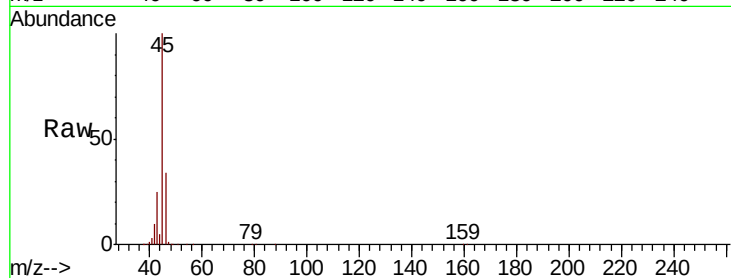




#13
Ethanol
Concen: 55.592 ppbv
RT: 3.58 min Scan# 246
Delta R.T. 0.01 min
Lab File: VL035245.D
Acq: 29 Jul 2020 14:14

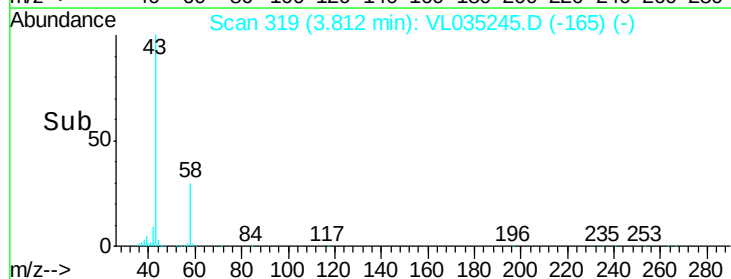
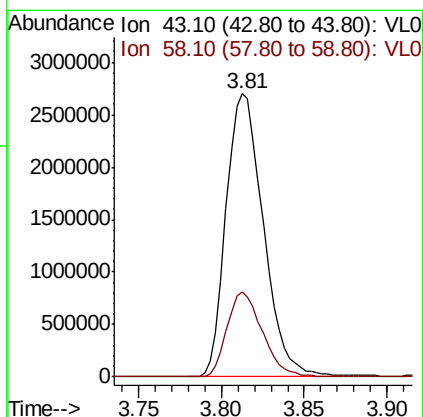
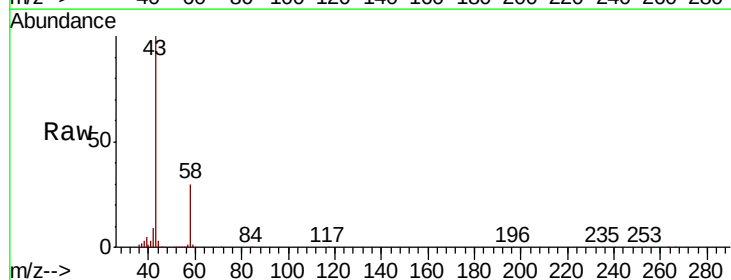
Instrument :
MSVOA_L
ClientSampleId :

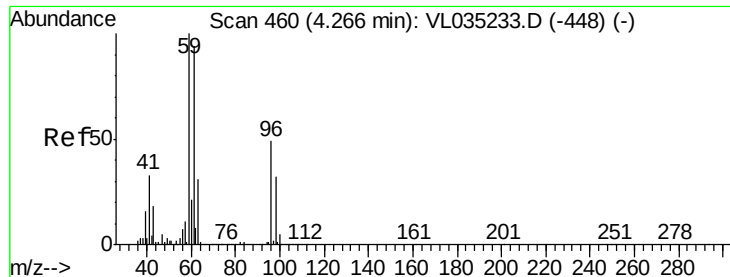
Tot Ion: 45 Resp: 1181667
Ion Ratio Lower Upper
45 100
46 36.2 15.8 63.4



#15
Acetone
Concen: 23.368 ppbv
RT: 3.81 min Scan# 319
Delta R.T. -0.01 min
Lab File: VL035245.D
Acq: 29 Jul 2020 14:14

Tgt Ion: 43 Resp: 4218933
Ion Ratio Lower Upper
43 100
58 28.6 21.8 32.6





#17

tert-Butyl alcohol

Concen: 3.274 ppbv

RT: 3.95 min Scan# 362

Delta R.T. -0.31 min

Lab File: VL035245.D

Acq: 29 Jul 2020 14:14

Instrument :

MSVOA_L

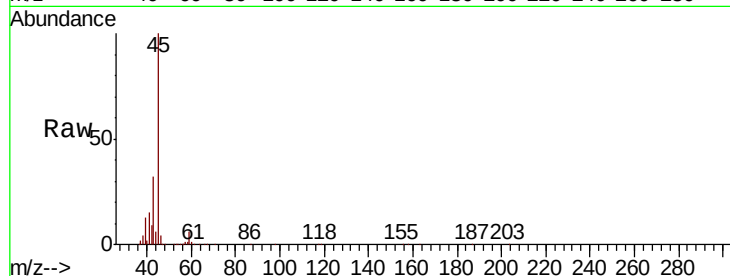
ClientSampleId :

Tot Ion: 59 Resp: 570538

Ion Ratio Lower Upper

59 100

57 8.6 8.6 12.8



Abundance Ion 59.10 (58.80 to 59.80): VL0

Ion 57.10 (56.80 to 57.80): VL0

3.95

250000

200000

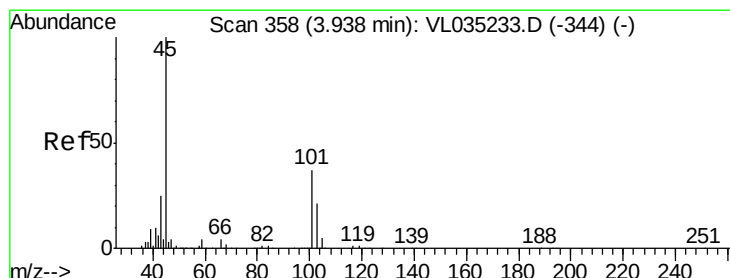
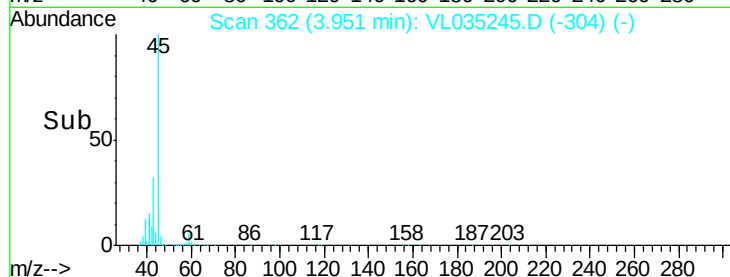
150000

100000

50000

0

Time-->



#19

Isopropyl Alcohol

Concen: 96.889 ppbv

RT: 3.95 min Scan# 362

Delta R.T. 0.01 min

Lab File: VL035245.D

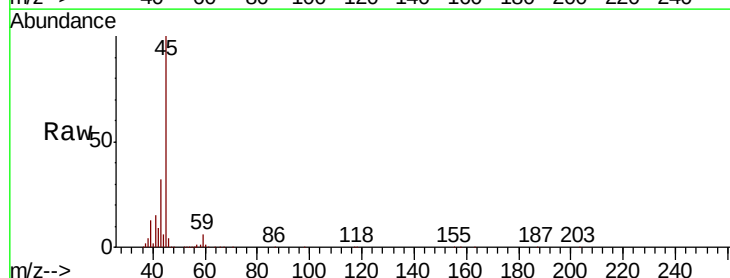
Acq: 29 Jul 2020 14:14

Tgt Ion: 45 Resp: 11536643

Ion Ratio Lower Upper

45 100

58 1.3 1.9 2.9#



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

3.95

5000000

4000000

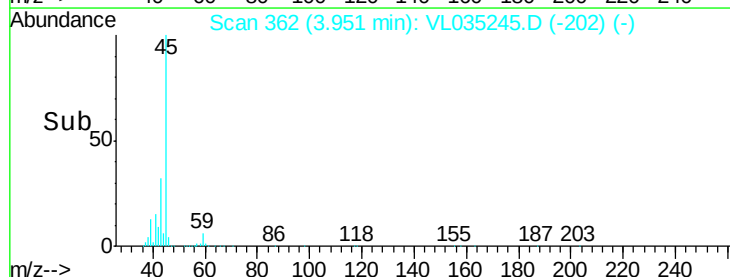
3000000

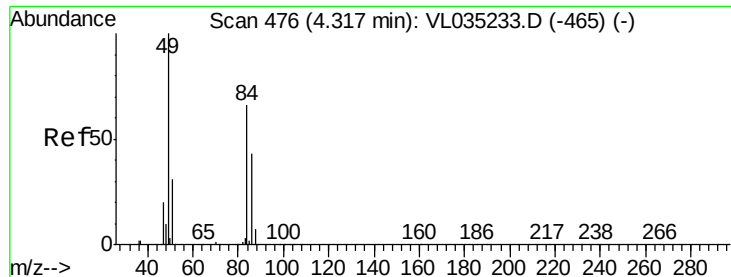
2000000

1000000

0

Time-->

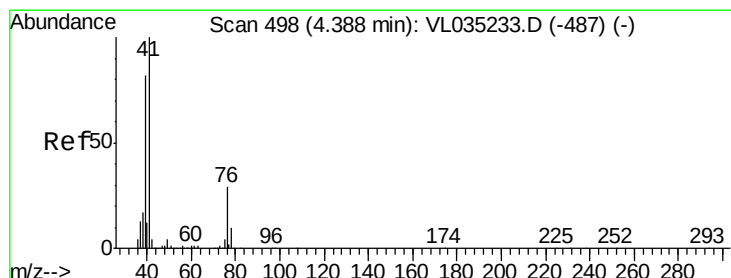
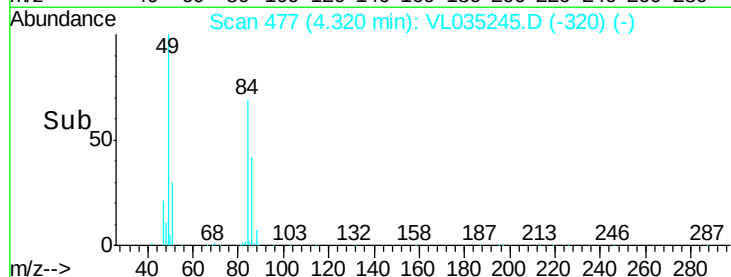
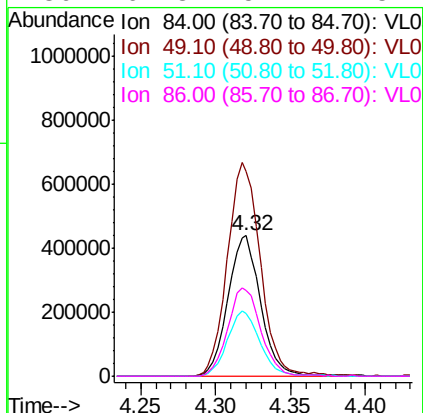
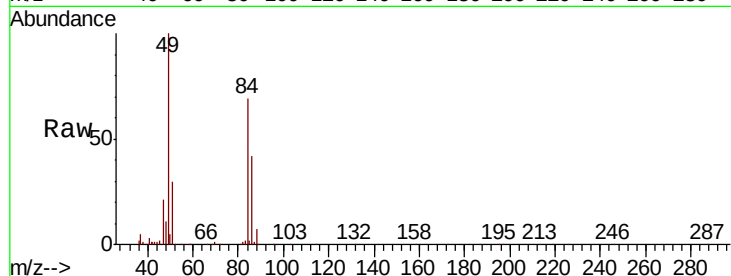




#20
Methylene Chloride
Concen: 8.106 ppbv
RT: 4.32 min Scan# 477
Delta R.T. 0.00 min
Lab File: VL035245.D
Acq: 29 Jul 2020 14:14

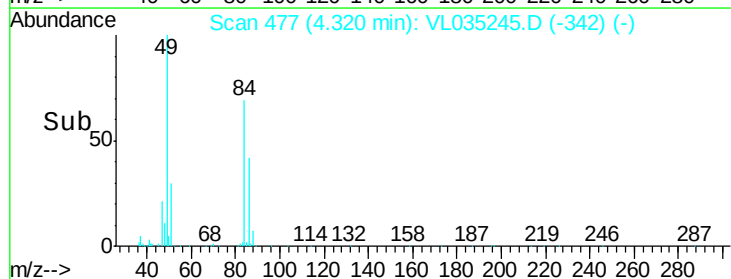
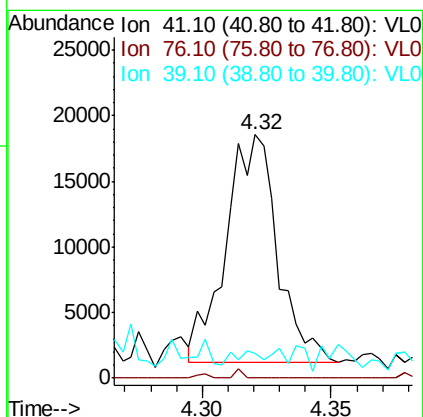
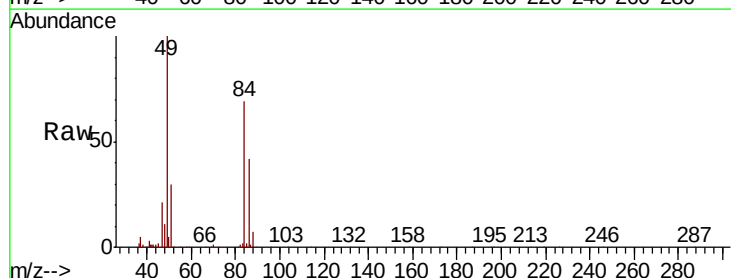
Instrument :
MSVOA_L
ClientSampleId :

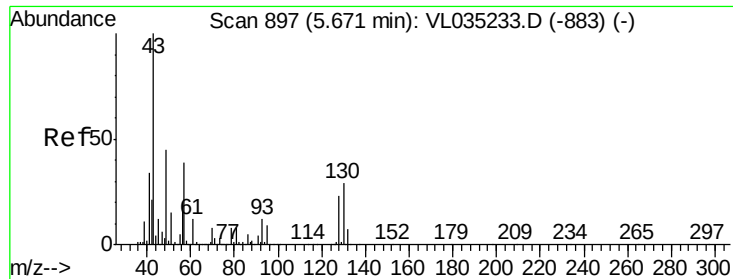
Tot Ion:	84	Resp:	666187
Ion	Ratio	Lower	Upper
84	100		
49	145.6	121.0	181.4
51	44.2	37.7	56.5
86	61.3	52.2	78.4



#21
Allyl Chloride
Concen: 0.235 ppbv
RT: 4.32 min Scan# 477
Delta R.T. -0.07 min
Lab File: VL035245.D
Acq: 29 Jul 2020 14:14

Tgt Ion:	41	Resp:	24137
Ion	Ratio	Lower	Upper
41	100		
76	1.0	24.4	36.6#
39	0.0	63.8	95.8#

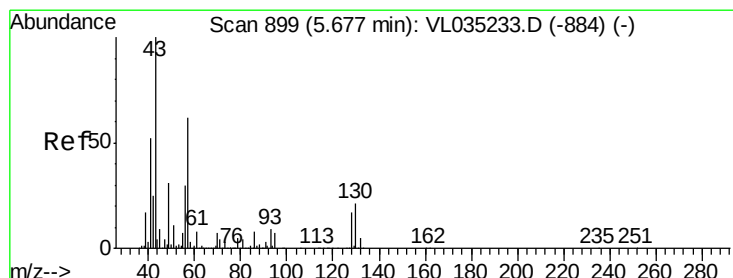
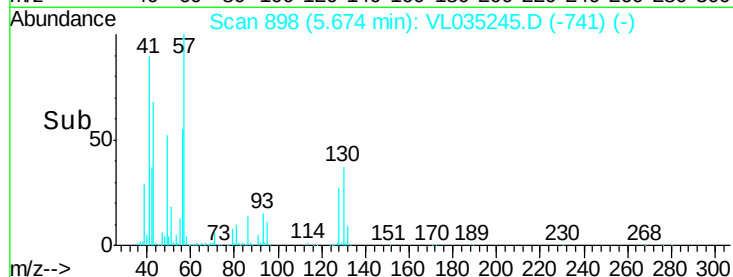
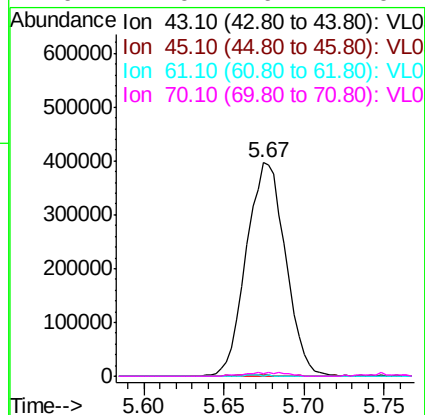
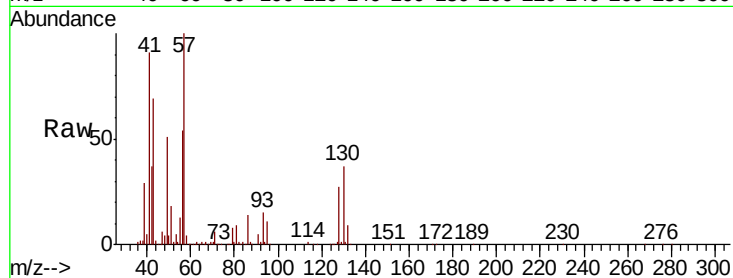




#25
Ethyl Acetate
Concen: 2.358 ppbv
RT: 5.67 min Scan# 898
Delta R.T. 0.00 min
Lab File: VL035245.D
Acq: 29 Jul 2020 14:14

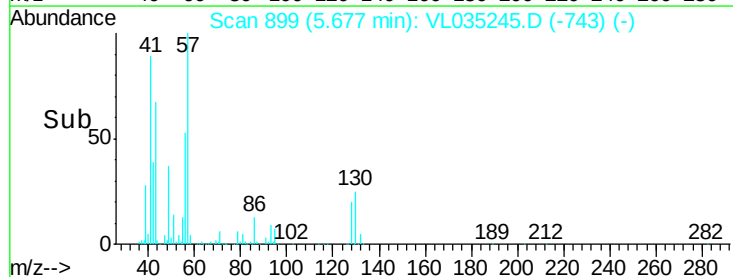
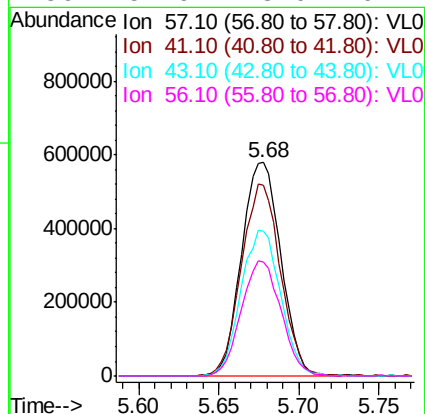
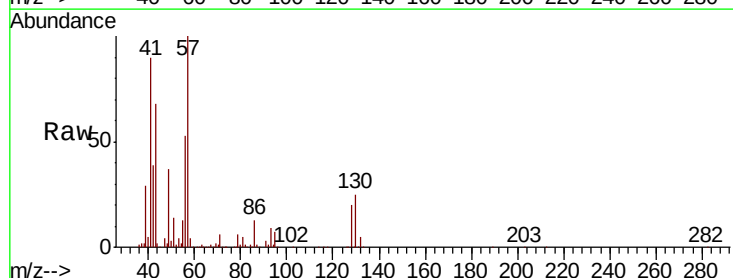
Instrument :
MSVOA_L
ClientSampleId :

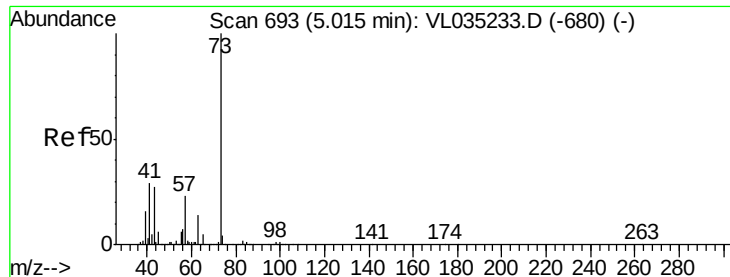
Tot Ion:	43	Resp:	664908
Ion	Ratio	Lower	Upper
43	100		
45	1.0	8.5	12.7#
61	0.6	8.1	12.1#
70	2.0	6.2	9.4#



#26
Hexane
Concen: 7.626 ppbv
RT: 5.68 min Scan# 899
Delta R.T. 0.00 min
Lab File: VL035245.D
Acq: 29 Jul 2020 14:14

Tgt Ion:	57	Resp:	970005
Ion	Ratio	Lower	Upper
57	100		
41	90.5	73.9	110.9
43	68.9	177.6	266.4#
56	54.9	43.0	64.4





#28

Methyl tert-Butyl Ether

Concen: 0.100 ppbv

RT: 5.01 min Scan# 692

Delta R.T. -0.00 min

Lab File: VL035245.D

Acq: 29 Jul 2020 14:14

Instrument :

MSVOA_L

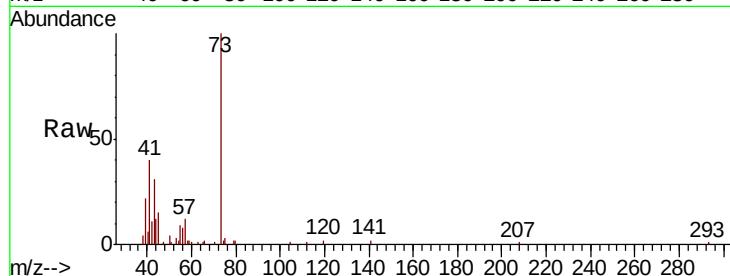
ClientSampleId :

Tot Ion: 73 Resp: 18264

Ion Ratio Lower Upper

73 100

57 0.0 18.2 27.4#



Abundance Ion 73.10 (72.80 to 73.80): VL0

Ion 57.10 (56.80 to 57.80): VL0

25000

20000

15000

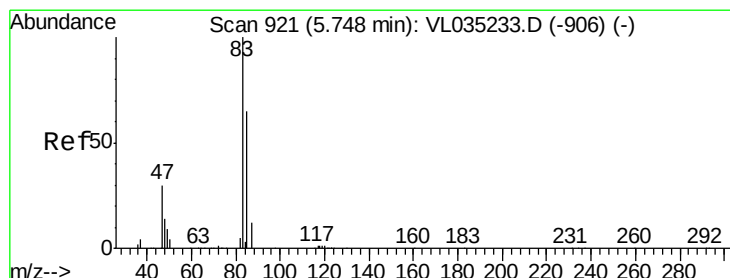
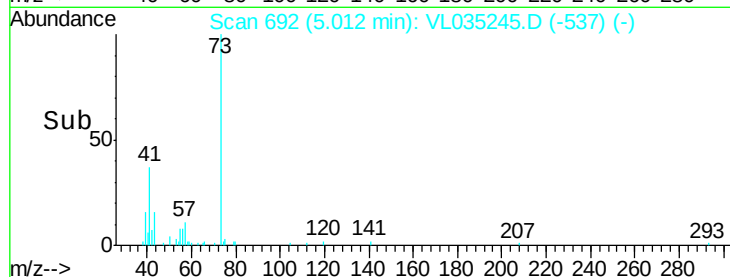
10000

5000

0

4.98 5.00 5.02

Time-->



#29

Chloroform

Concen: 3.288 ppbv

RT: 5.74 min Scan# 920

Delta R.T. -0.00 min

Lab File: VL035245.D

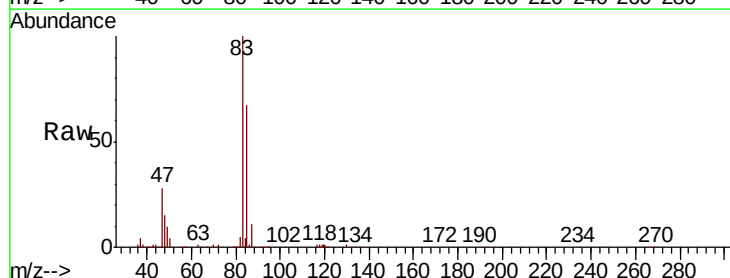
Acq: 29 Jul 2020 14:14

Tgt Ion: 83 Resp: 701457

Ion Ratio Lower Upper

83 100

85 66.5 51.7 77.5



Abundance Ion 83.00 (82.70 to 83.70): VL0

Ion 85.00 (84.70 to 85.70): VL0

400000

300000

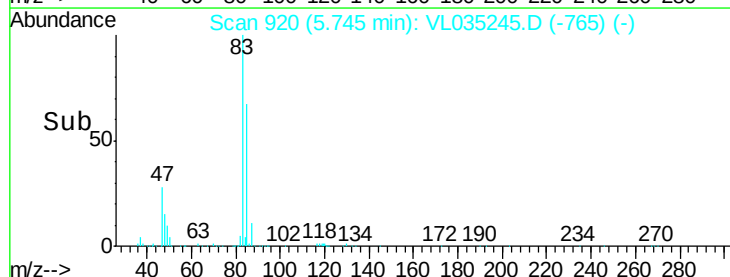
200000

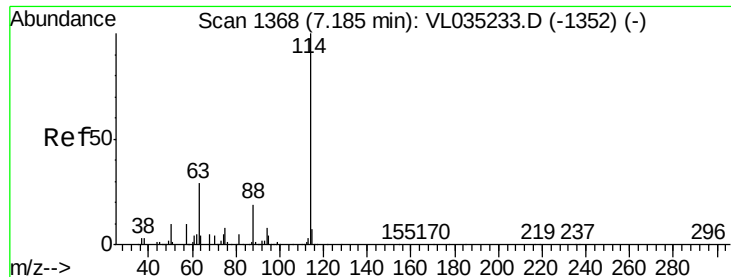
100000

0

5.70 5.75 5.80

Time-->

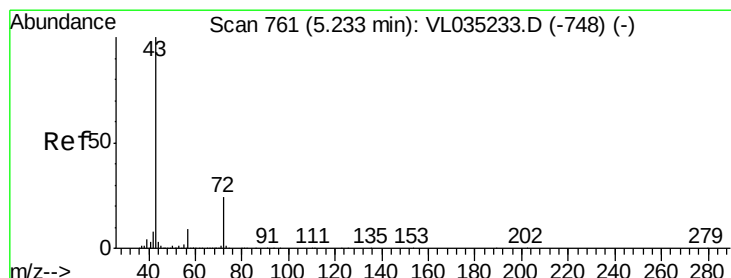
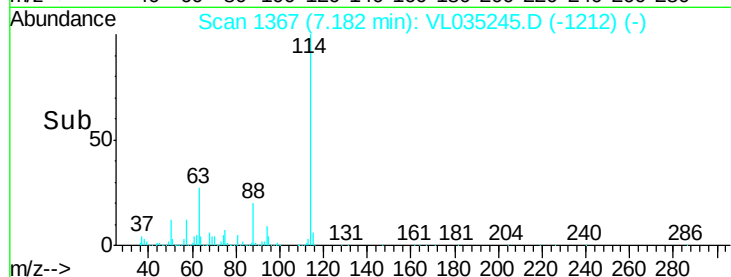
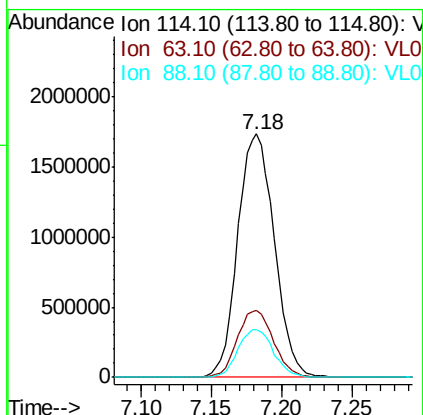
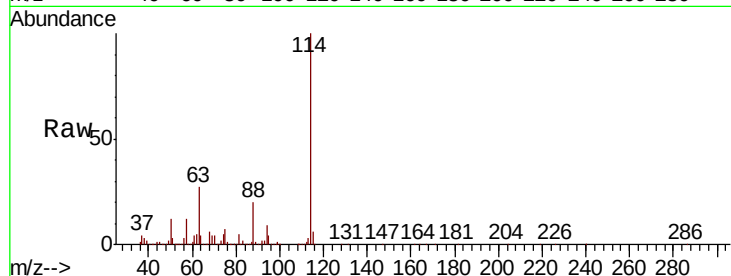




#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.18 min Scan# 1367
 Delta R.T. -0.00 min
 Lab File: VL035245.D
 Acq: 29 Jul 2020 14:14

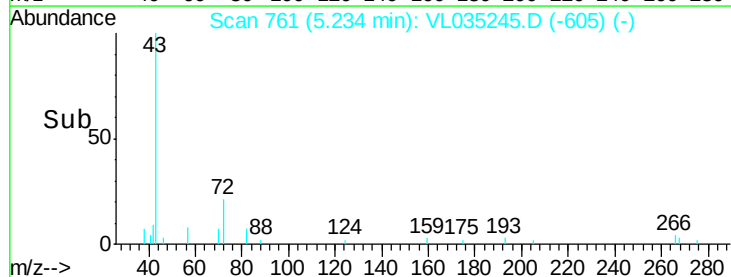
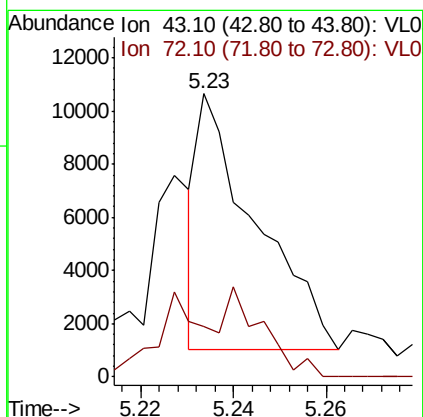
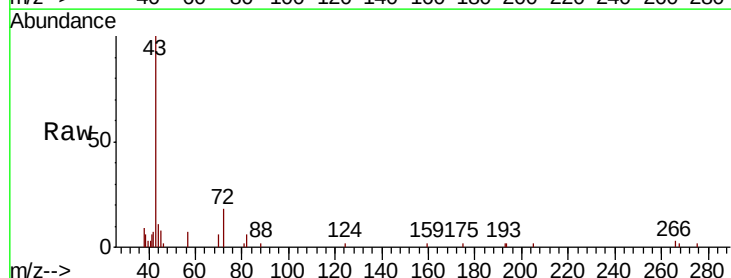
Instrument :
 MSVOA_L
 ClientSampleId :

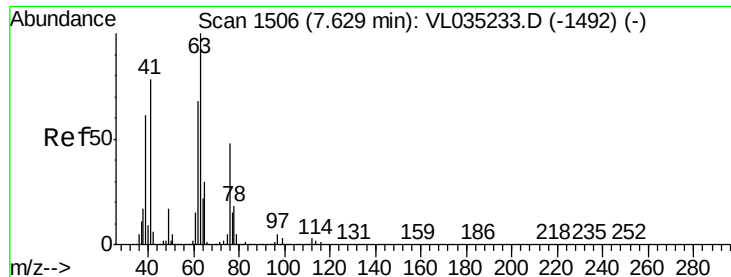
Tot Ion:114 Resp: 3161548
 Ion Ratio Lower Upper
 114 100
 63 27.2 22.2 33.2
 88 19.3 15.4 23.0



#34
 2-Butanone
 Concen: 0.051 ppbv
 RT: 5.23 min Scan# 761
 Delta R.T. 0.00 min
 Lab File: VL035245.D
 Acq: 29 Jul 2020 14:14

Tgt Ion: 43 Resp: 8264
 Ion Ratio Lower Upper
 43 100
 72 51.2 19.2 28.8#





#39

1,2-Dichloropropane

Concen: 9.776 ppbv

RT: 7.18 min Scan# 1367

Delta R.T. -0.45 min

Lab File: VL035245.D

Acq: 29 Jul 2020 14:14

Instrument :

MSVOA_L

ClientSampled :

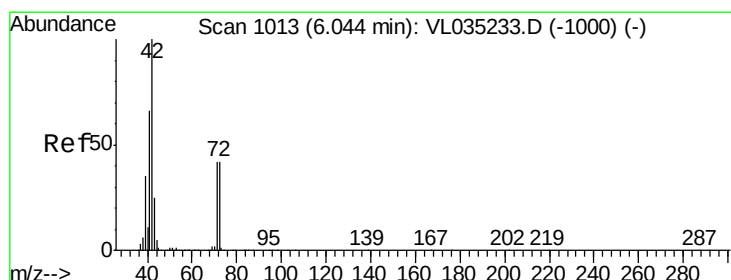
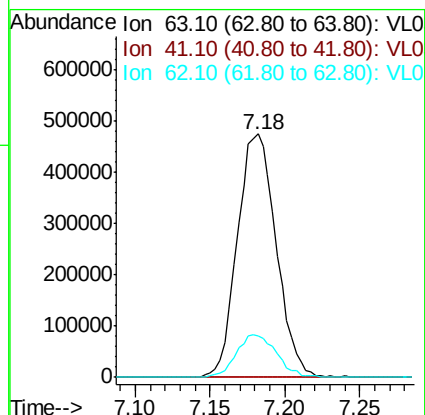
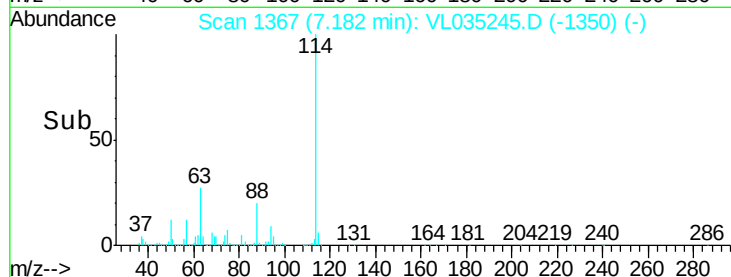
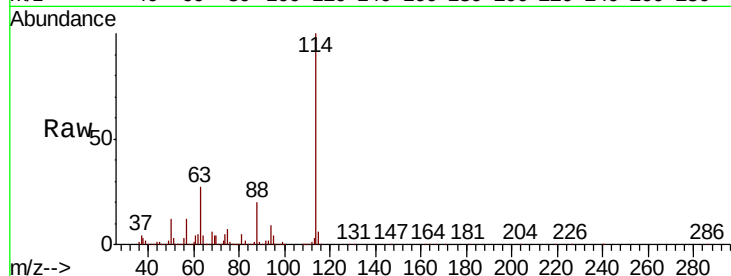
Tot Ion: 63 Resp: 857029

Ion Ratio Lower Upper

63 100

41 0.0 62.2 93.4#

62 17.1 54.2 81.2#



#41

Tetrahydrofuran

Concen: 4.631 ppbv

RT: 5.68 min Scan# 899

Delta R.T. -0.37 min

Lab File: VL035245.D

Acq: 29 Jul 2020 14:14

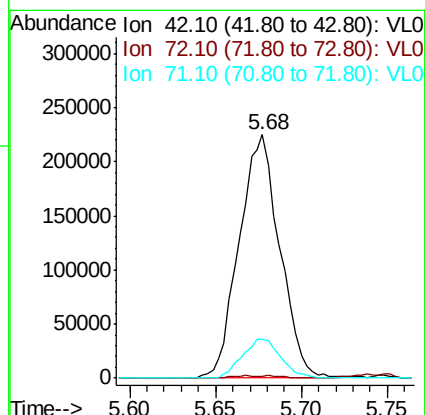
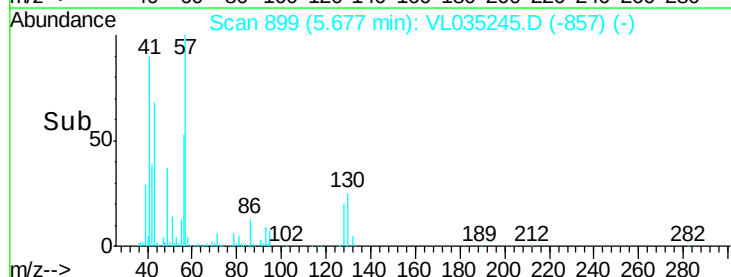
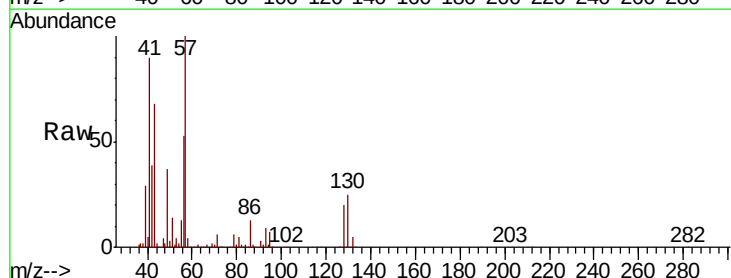
Tgt Ion: 42 Resp: 365130

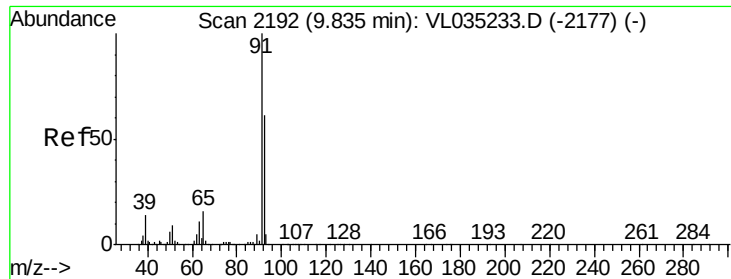
Ion Ratio Lower Upper

42 100

72 1.0 34.2 51.2#

71 15.6 33.2 49.8#





#53

Toluene

Concen: 0.080 ppbv

RT: 9.83 min Scan# 2190

Delta R.T. -0.01 min

Lab File: VL035245.D

Acq: 29 Jul 2020 14:14

Instrument :

MSVOA_L

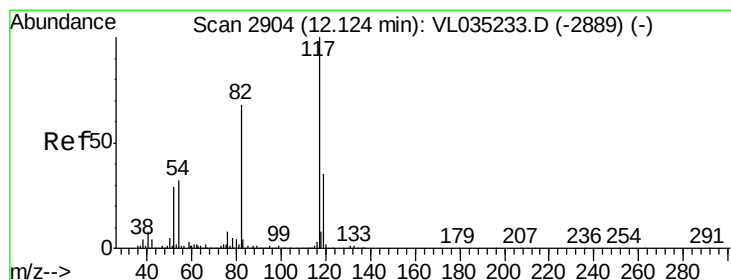
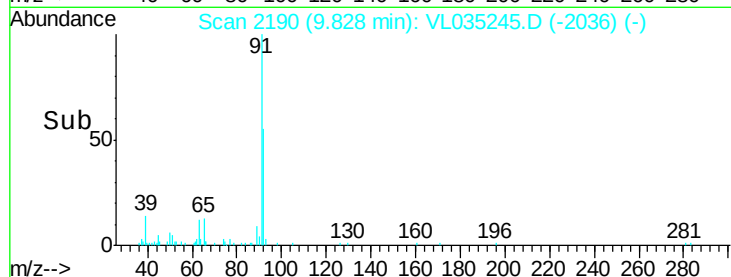
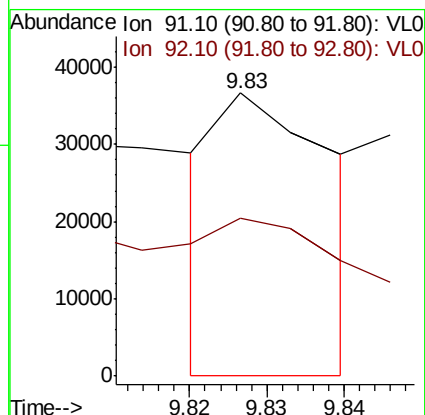
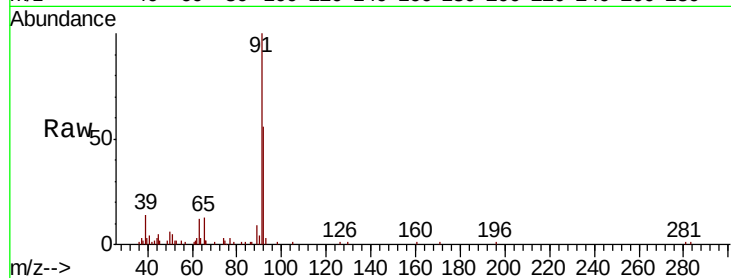
ClientSampleId :

Tot Ion: 91 Resp: 18623

Ion Ratio Lower Upper

91 100

92 216.5 48.5 72.7#



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.11 min Scan# 2901

Delta R.T. -0.01 min

Lab File: VL035245.D

Acq: 29 Jul 2020 14:14

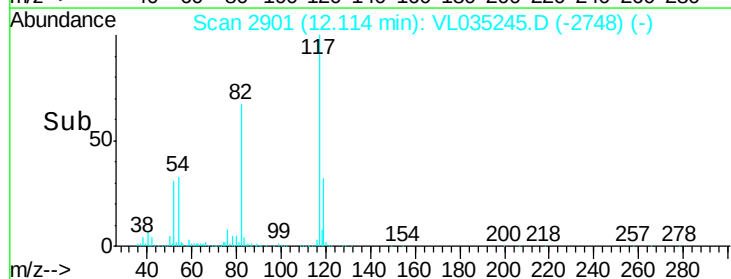
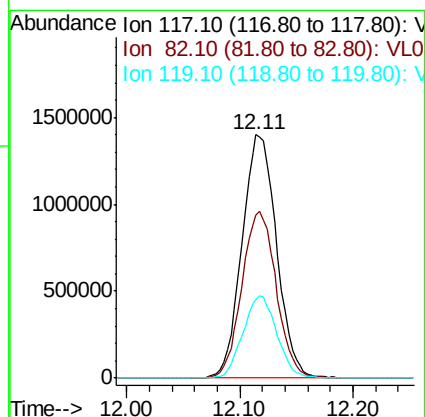
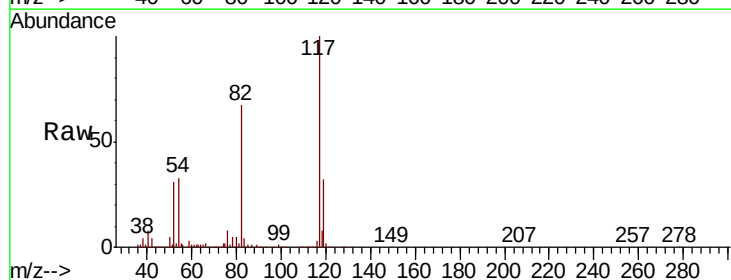
Tgt Ion: 117 Resp: 2976138

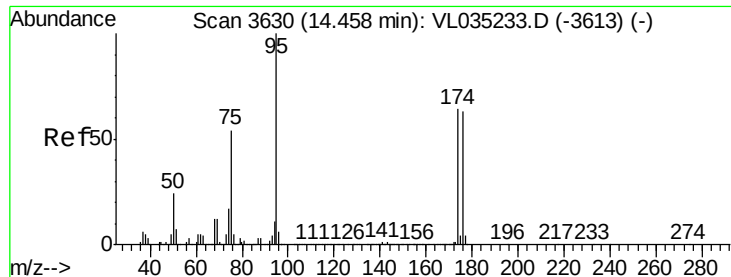
Ion Ratio Lower Upper

117 100

82 68.4 52.4 78.6

119 33.1 24.6 36.8





#68

1-Bromo-4-Fluorobenzene

Concen: 9.998 ppbv

RT: 14.45 min Scan# 3628

Delta R.T. -0.01 min

Lab File: VL035245.D

Acq: 29 Jul 2020 14:14

Instrument :

MSVOA_L

ClientSampleId :

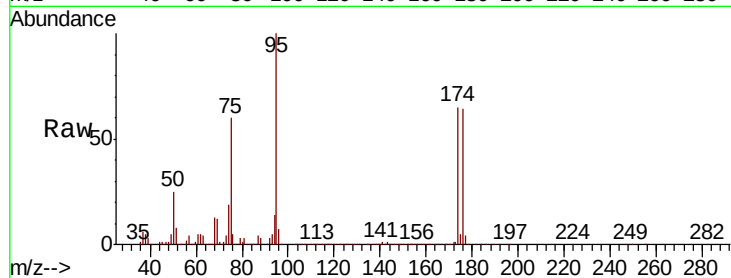
Tot Ion: 95 Resp: 2377649

Ion Ratio Lower Upper

95 100

174 65.5 52.7 79.1

175 4.7 3.9 5.9



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

