

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL120720\
 Data File : VL036079.D
 Acq On : 8 Dec 2020 00:28
 Operator : SY/AP
 Sample : L4948-01
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-1B

Quant Time: Dec 08 08:40:36 2020
 Quant Method : Z:\VOASRV\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

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.68	49	1170873	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.19	114	2577195	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.11	117	2317182	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.45	95	1867962	10.15	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	101.50%

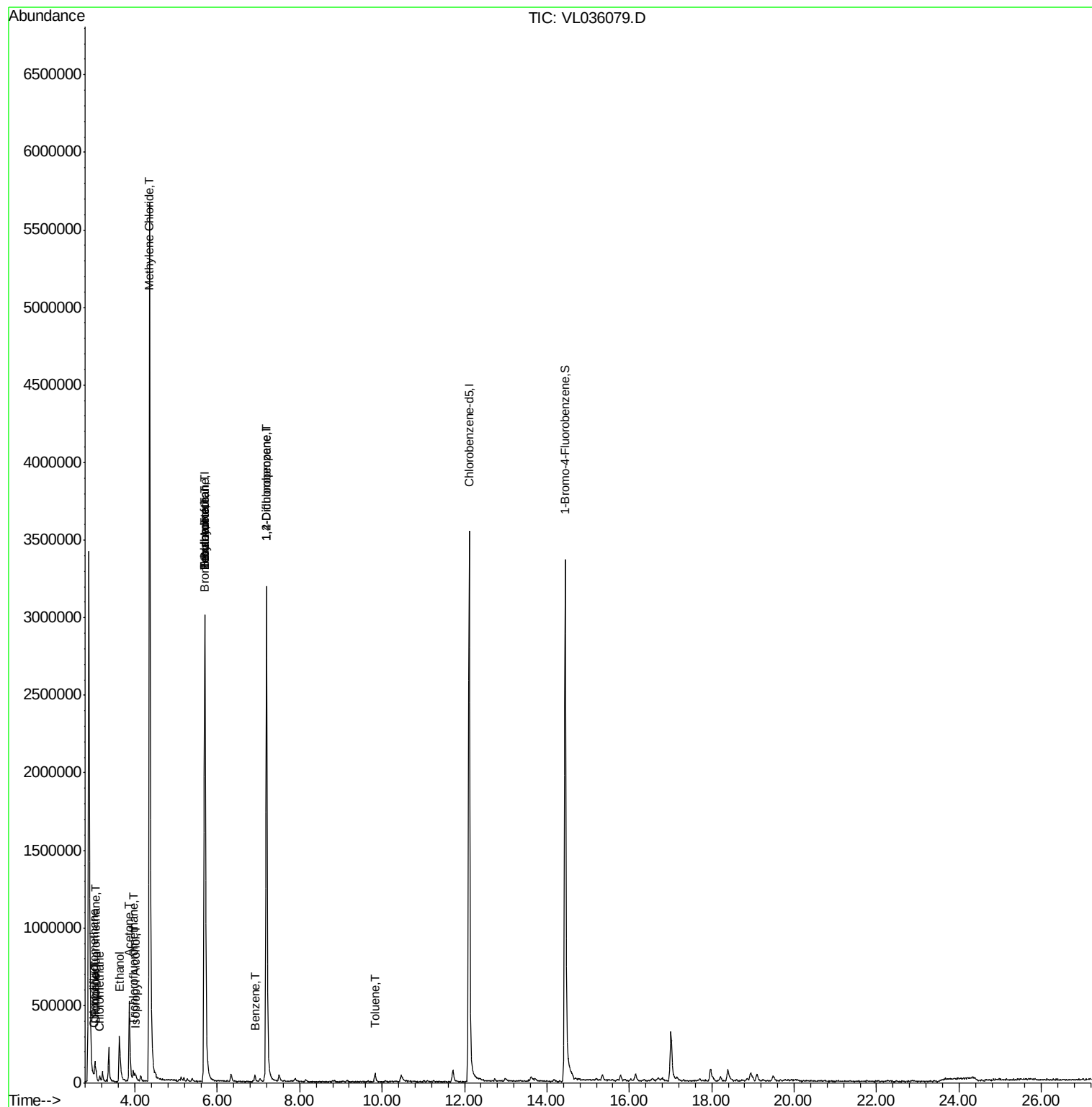
Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.05	85	43835	0.321	ppbv	94
3) Chlorodifluoromethane	2.99	51	61119	0.458	ppbv #	90
4) Chloromethane	3.14	50	27833	0.424	ppbv #	70
9) Propene	3.02	41	29466	0.440	ppbv #	77
11) Trichlorofluoromethane	3.96	101	37403	0.233	ppbv	99
13) Ethanol	3.63	45	393682	42.673	ppbv	89
15) Acetone	3.86	43	649335	4.614	ppbv	99
19) Isopropyl Alcohol	4.01	45	10291	0.120	ppbv #	100
20) Methylene Chloride	4.36	84	2357124	40.876	ppbv	98
25) Ethyl Acetate	5.70	43	766774	2.727	ppbv #	77
26) Hexane	5.70	57	1019508	8.058	ppbv #	37
34) 2-Butanone	5.70	43	731404	4.278	ppbv #	56
36) Benzene	6.91	78	22335	0.102	ppbv #	86
39) 1,2-Dichloropropane	7.19	63	746546	8.655	ppbv #	23
41) Tetrahydrofuran	5.70	42	383846	3.780	ppbv #	53
53) Toluene	9.83	91	35460	0.145	ppbv	95

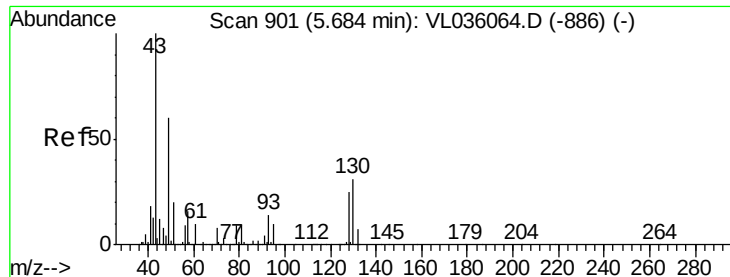
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Mon Dec 07 16:56:49 2020
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.68 min Scan# 900

Delta R.T. -0.00 min

Lab File: VL036079.D

Acq: 8 Dec 2020 00:28

Instrument :

MSVOA_L

ClientSampleId :

IA-1B

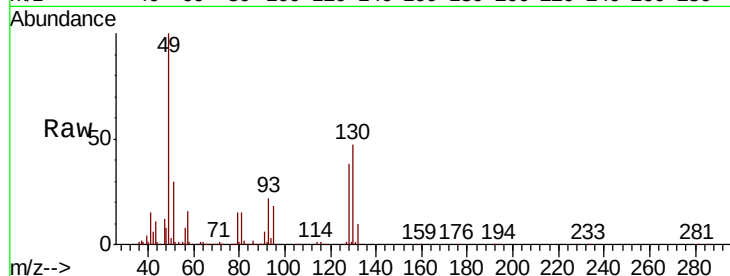
Tot Ion: 49 Resp: 1170873

Ion Ratio Lower Upper

49 100

128 38.3 21.1 63.1

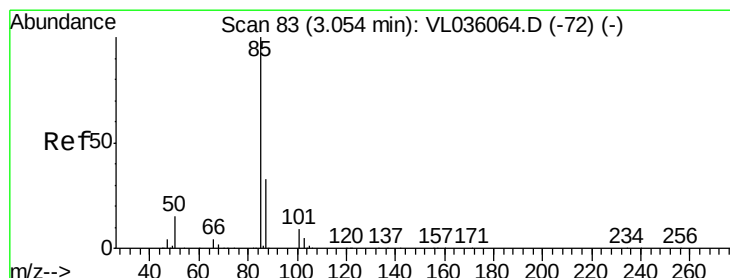
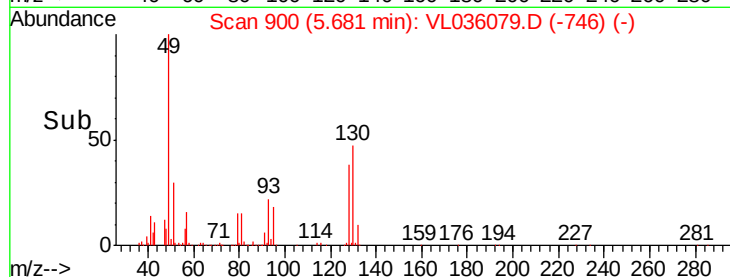
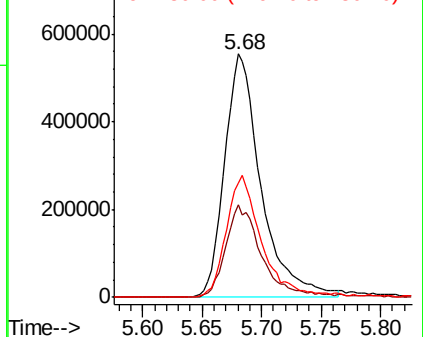
130 49.5 27.1 81.3



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: 0.321 ppbv

RT: 3.05 min Scan# 83

Delta R.T. -0.00 min

Lab File: VL036079.D

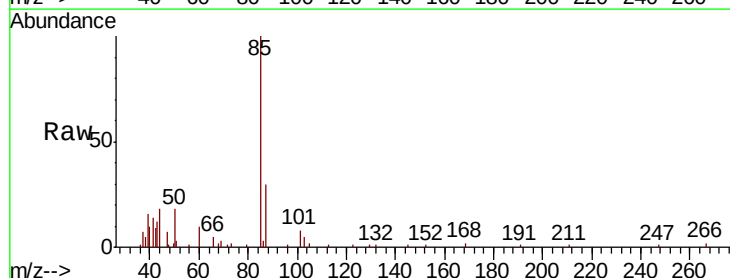
Acq: 8 Dec 2020 00:28

Tgt Ion: 85 Resp: 43835

Ion Ratio Lower Upper

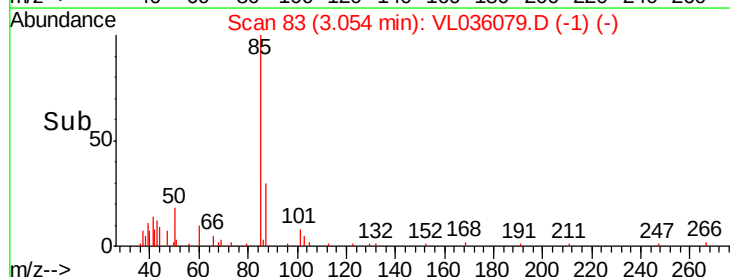
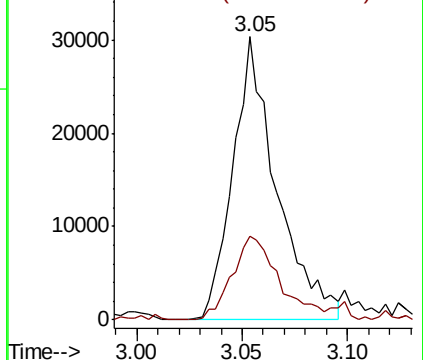
85 100

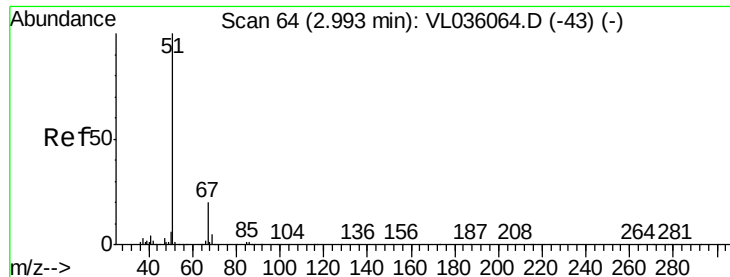
87 29.6 26.5 39.7



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.458 ppbv

RT: 2.99 min Scan# 64

Delta R.T. -0.00 min

Lab File: VL036079.D

Acq: 8 Dec 2020 00:28

Instrument :

MSVOA_L

ClientSampleId :

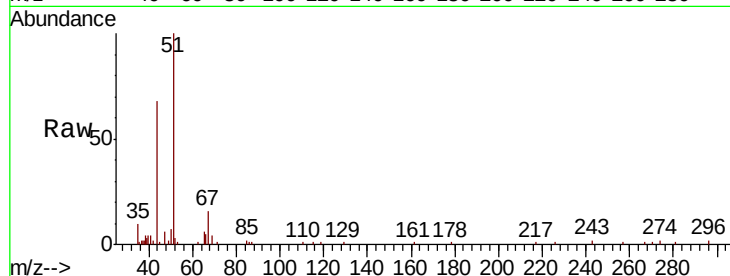
IA-1B

Tot Ion: 51 Resp: 61119

Ion Ratio Lower Upper

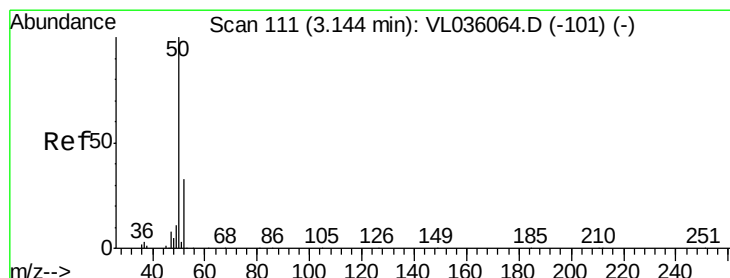
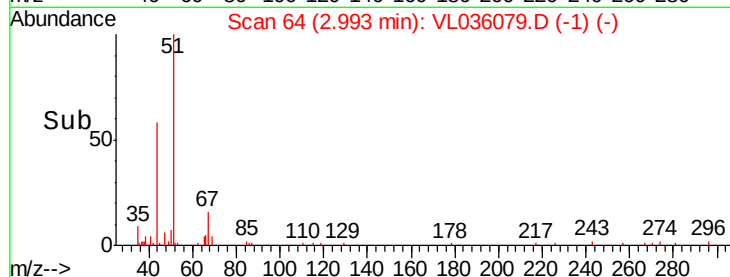
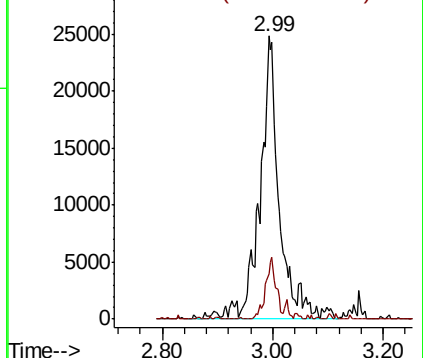
51 100

67 13.6 14.3 21.5#



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 0.424 ppbv

RT: 3.14 min Scan# 111

Delta R.T. -0.00 min

Lab File: VL036079.D

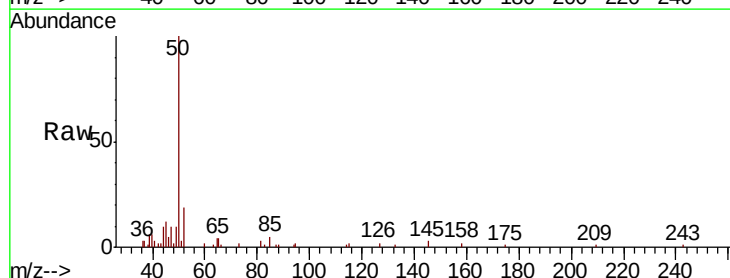
Acq: 8 Dec 2020 00:28

Tgt Ion: 50 Resp: 27833

Ion Ratio Lower Upper

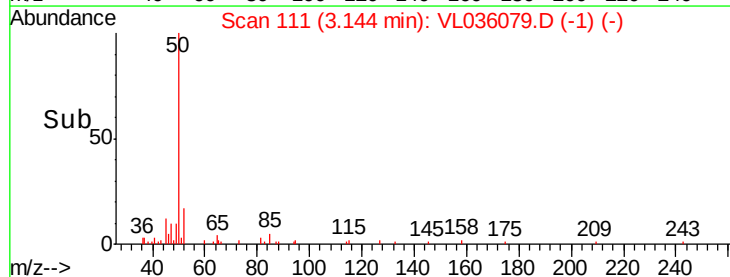
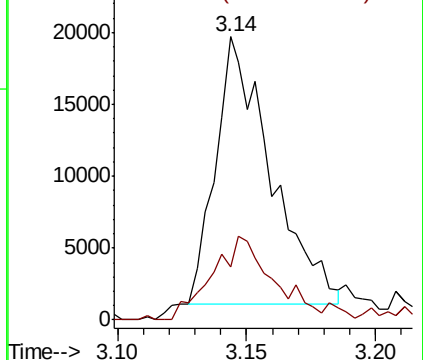
50 100

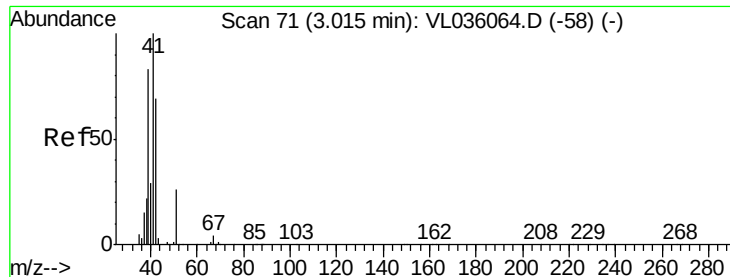
52 15.8 26.1 39.1#



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#9

Propene

Concen: 0.440 ppbv

RT: 3.02 min Scan# 74

Delta R.T. 0.01 min

Lab File: VL036079.D

Acq: 8 Dec 2020 00:28

Instrument :

MSVOA_L

ClientSampleId :

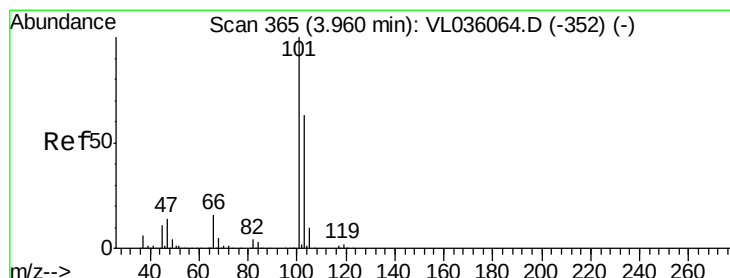
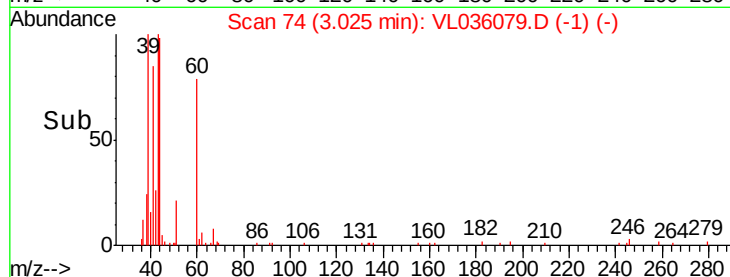
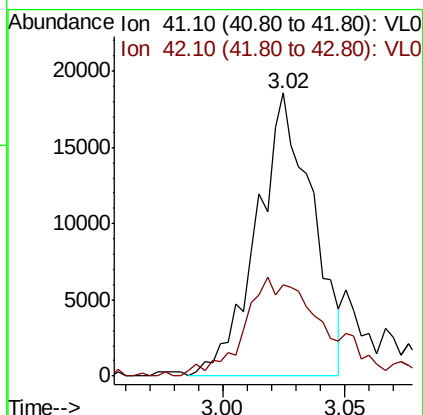
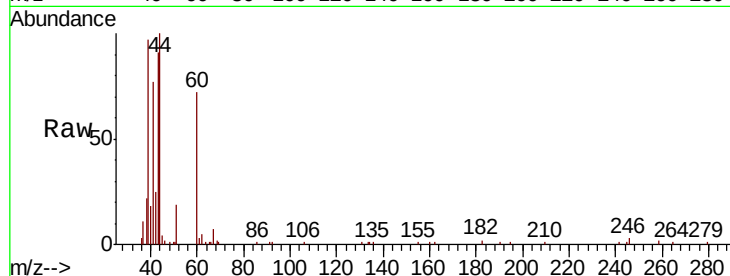
IA-1B

Tot Ion: 41 Resp: 29466

Ion Ratio Lower Upper

41 100

42 52.3 57.0 85.6#



#11

Trichlorofluoromethane

Concen: 0.233 ppbv

RT: 3.96 min Scan# 366

Delta R.T. 0.00 min

Lab File: VL036079.D

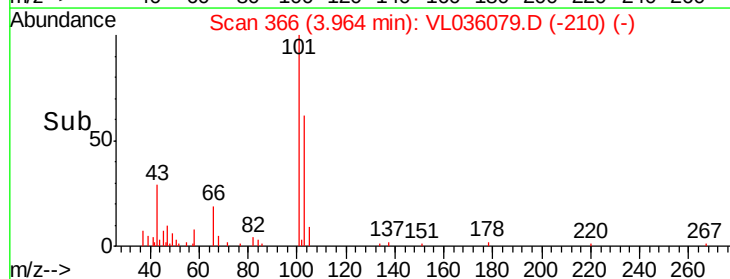
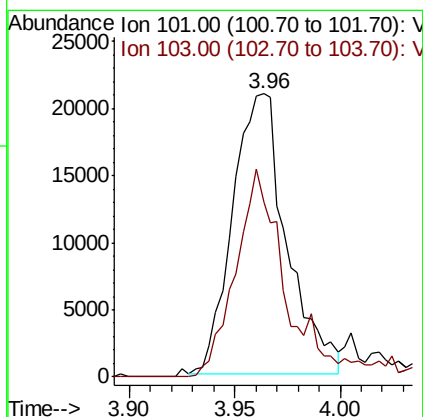
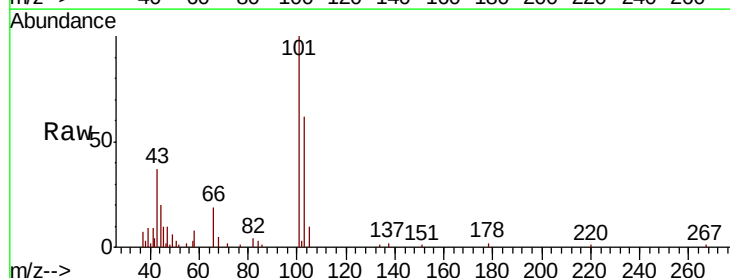
Acq: 8 Dec 2020 00:28

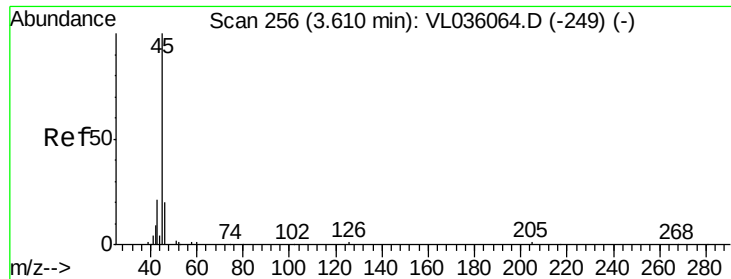
Tgt Ion: 101 Resp: 37403

Ion Ratio Lower Upper

101 100

103 62.5 50.3 75.5





#13

Ethanol

Concen: 42.673 ppbv

RT: 3.63 min Scan# 261

Delta R.T. 0.02 min

Lab File: VL036079.D

Acq: 8 Dec 2020 00:28

Instrument :

MSVOA_L

ClientSampleId :

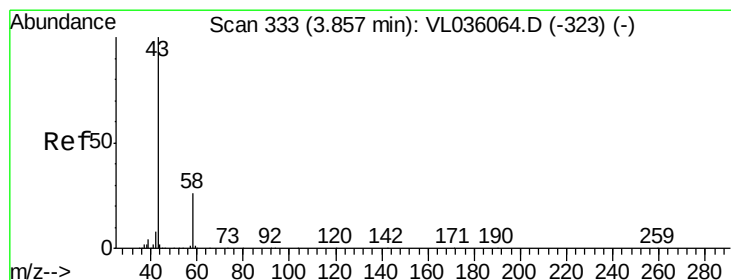
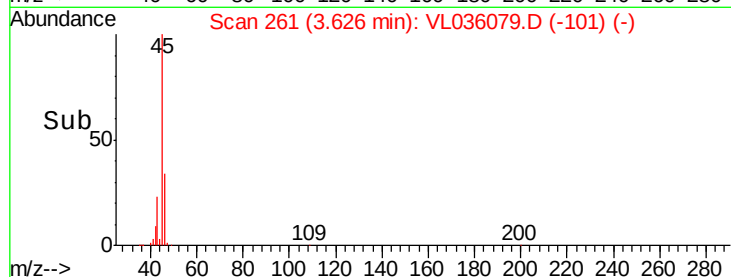
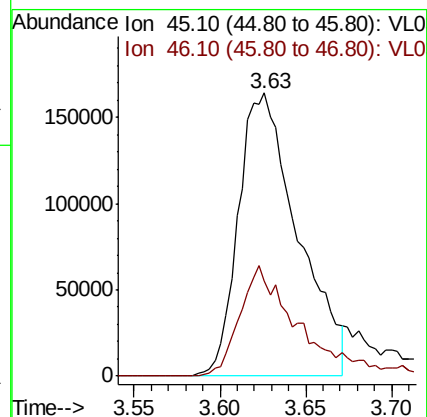
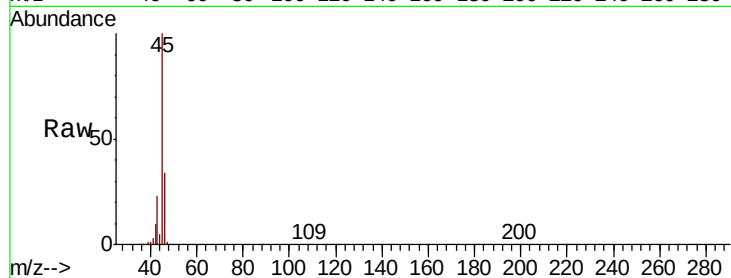
IA-1B

Tot Ion: 45 Resp: 393682

Ion Ratio Lower Upper

45 100

46 39.8 19.0 75.8



#15

Acetone

Concen: 4.614 ppbv

RT: 3.86 min Scan# 334

Delta R.T. 0.00 min

Lab File: VL036079.D

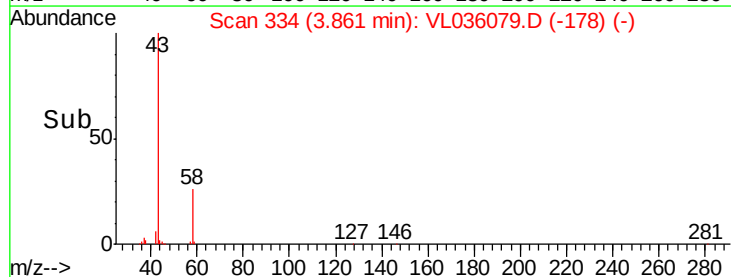
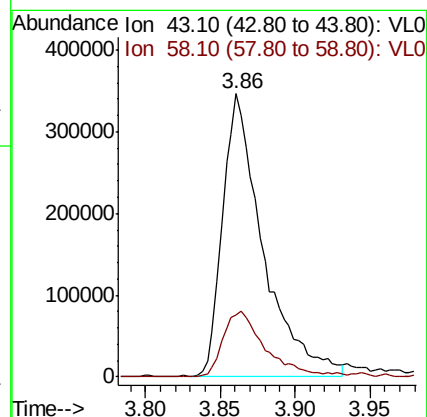
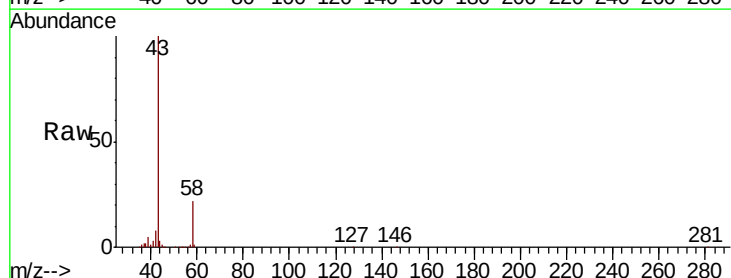
Acq: 8 Dec 2020 00:28

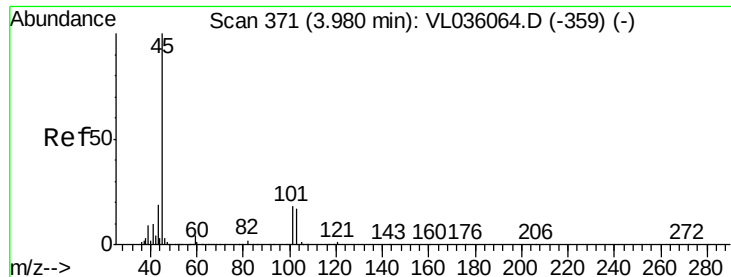
Tgt Ion: 43 Resp: 649335

Ion Ratio Lower Upper

43 100

58 25.6 20.9 31.3





#19

Isopropyl Alcohol

Concen: 0.120 ppbv

RT: 4.01 min Scan# 379

Delta R.T. 0.03 min

Lab File: VL036079.D

Acq: 8 Dec 2020 00:28

Instrument :

MSVOA_L

ClientSampleId :

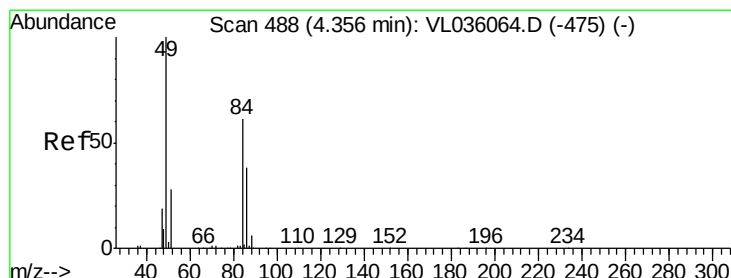
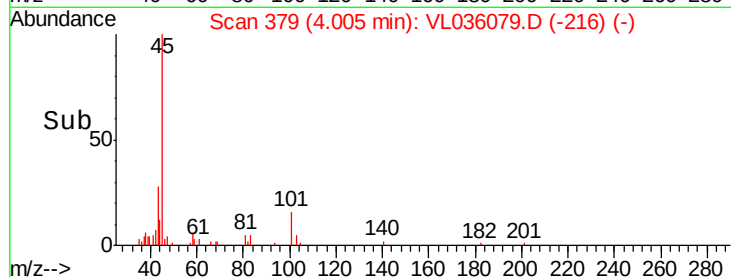
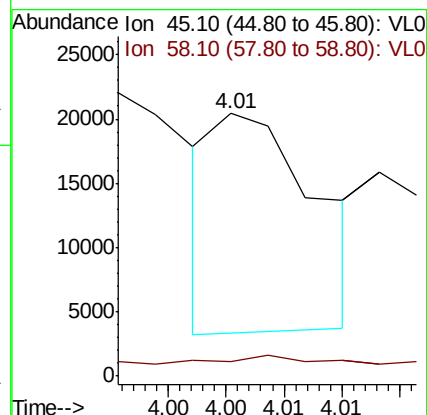
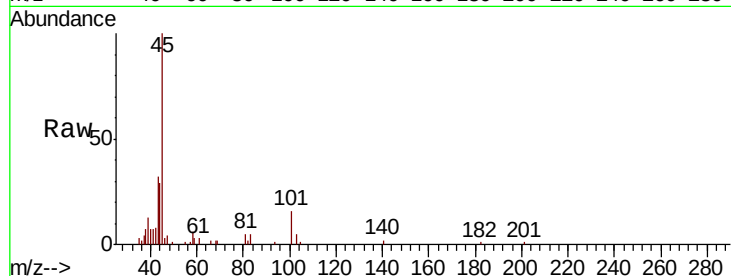
IA-1B

Tot Ion: 45 Resp: 10291

Ion Ratio Lower Upper

45 100

58 0.0 0.0 0.0



#20

Methylene Chloride

Concen: 40.876 ppbv

RT: 4.36 min Scan# 488

Delta R.T. -0.00 min

Lab File: VL036079.D

Acq: 8 Dec 2020 00:28

Tgt Ion: 84 Resp: 2357124

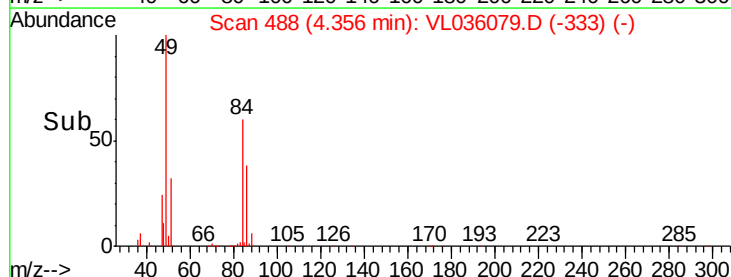
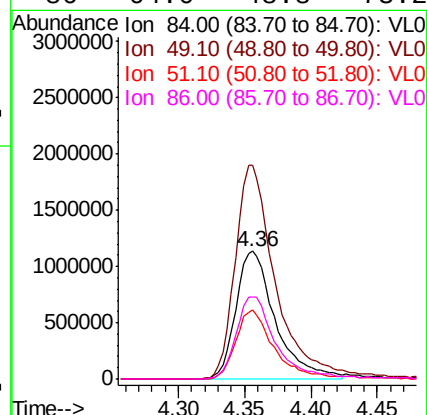
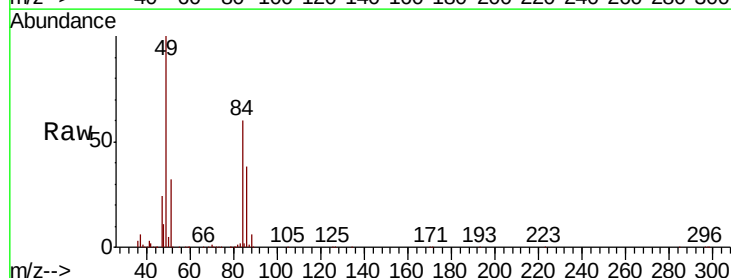
Ion Ratio Lower Upper

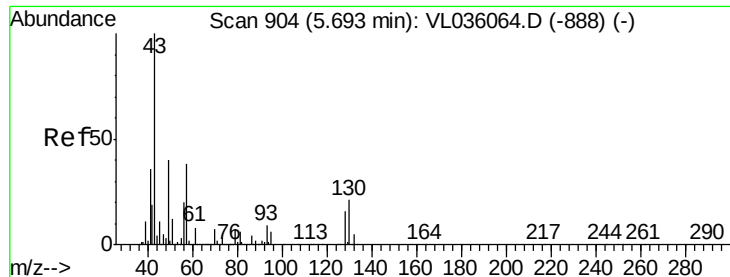
84 100

49 166.7 133.0 199.4

51 53.6 38.9 58.3

86 64.0 48.8 73.2

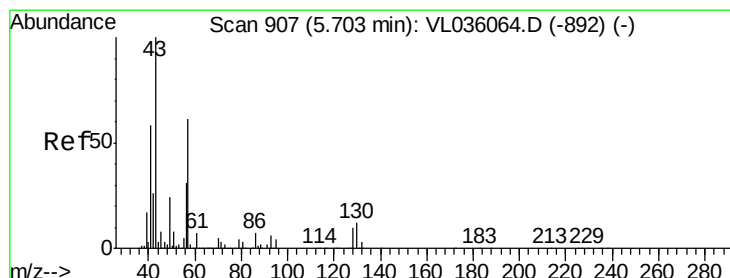
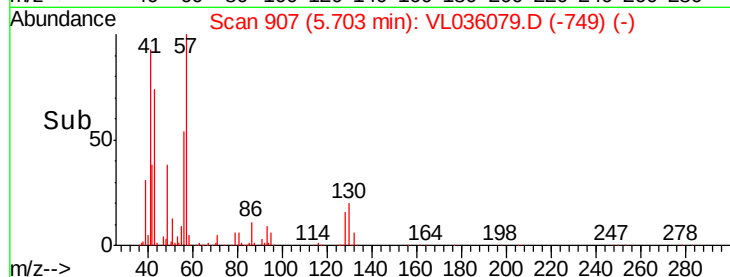
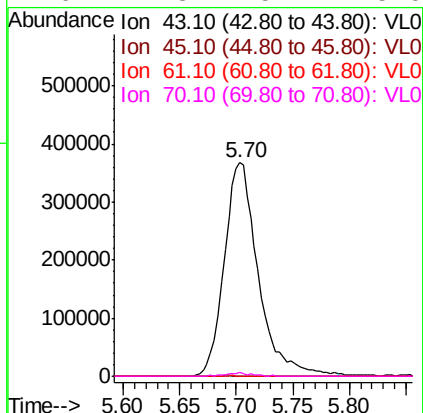
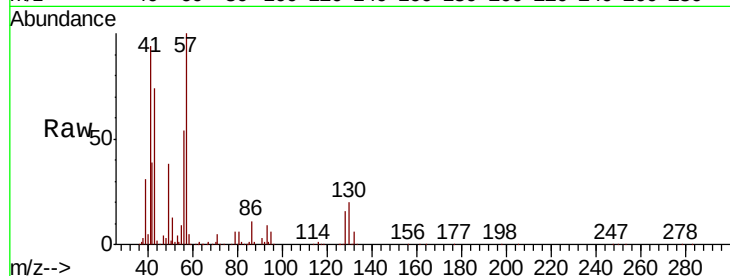




#25
Ethyl Acetate
Concen: 2.727 ppbv
RT: 5.70 min Scan# 907
Delta R.T. 0.01 min
Lab File: VL036079.D
Acq: 8 Dec 2020 00:28

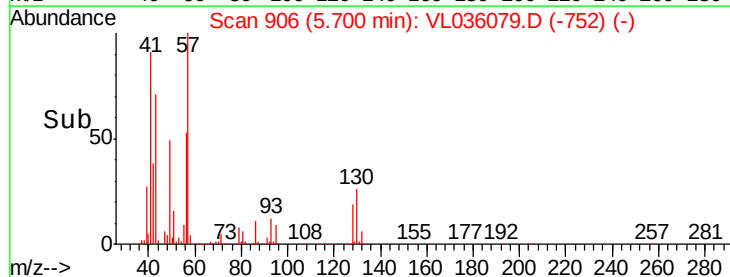
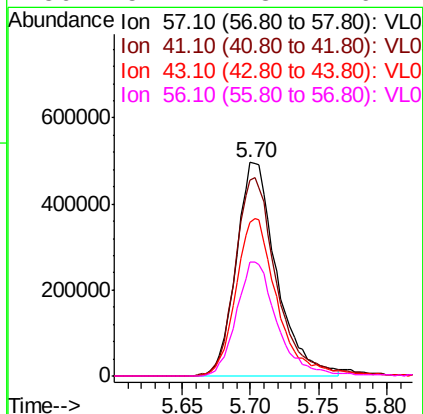
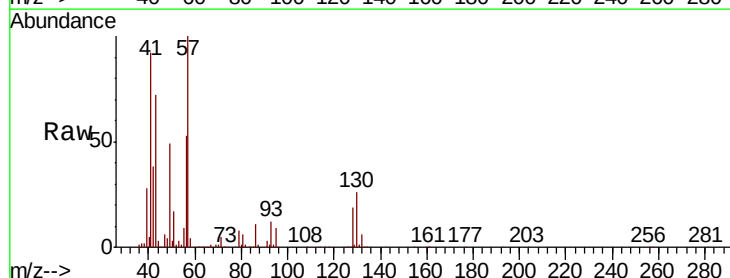
Instrument :
MSVOA_L
ClientSampled :
IA-1B

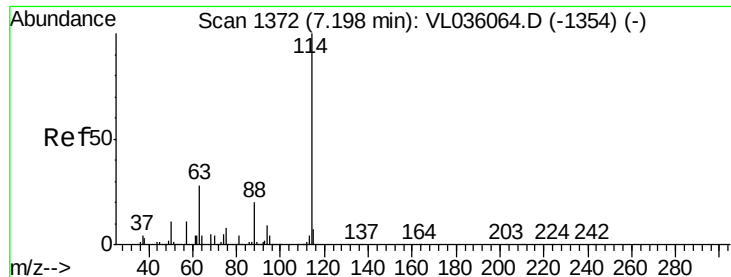
Tot Ion:	43	Resp:	766774
Ion	Ratio	Lower	Upper
43	100		
45	0.3	8.2	12.4#
61	0.2	7.4	11.2#
70	1.3	5.4	8.0#



#26
Hexane
Concen: 8.058 ppbv
RT: 5.70 min Scan# 906
Delta R.T. -0.00 min
Lab File: VL036079.D
Acq: 8 Dec 2020 00:28

Tgt Ion:	57	Resp:	1019508
Ion	Ratio	Lower	Upper
57	100		
41	96.0	82.9	124.3
43	76.0	199.9	299.9#
56	54.4	43.1	64.7

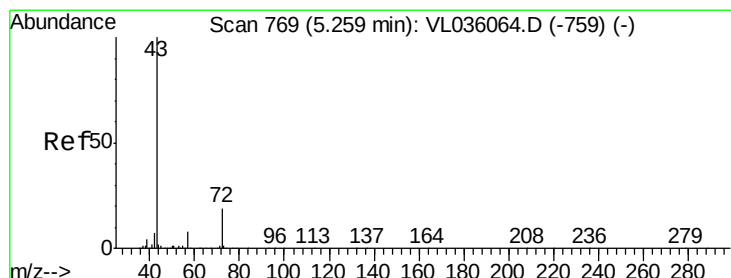
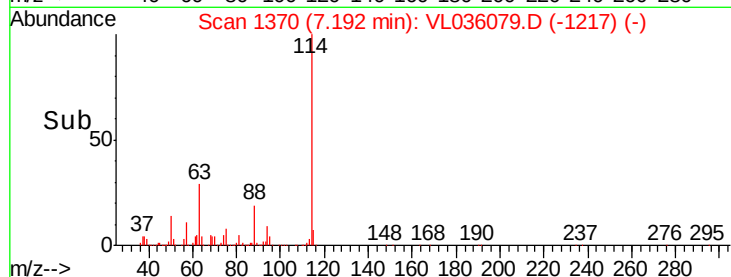
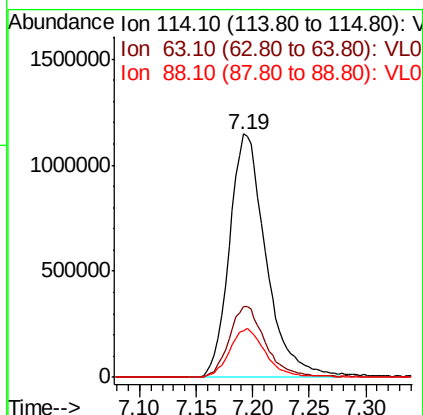
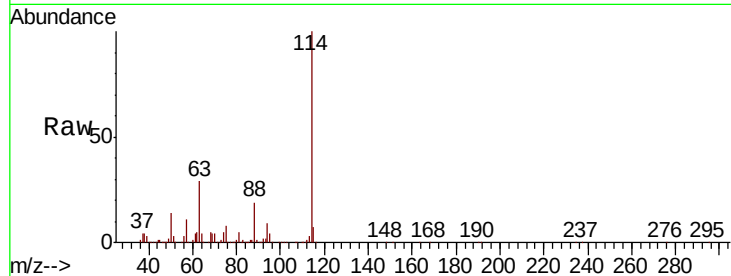




#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.19 min Scan# 1370
 Delta R.T. -0.01 min
 Lab File: VL036079.D
 Acq: 8 Dec 2020 00:28

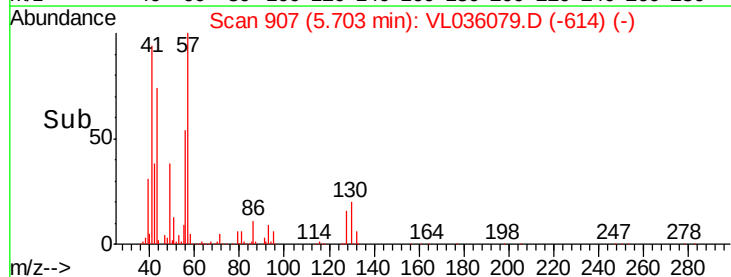
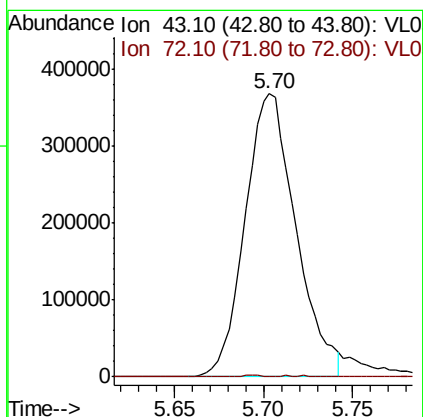
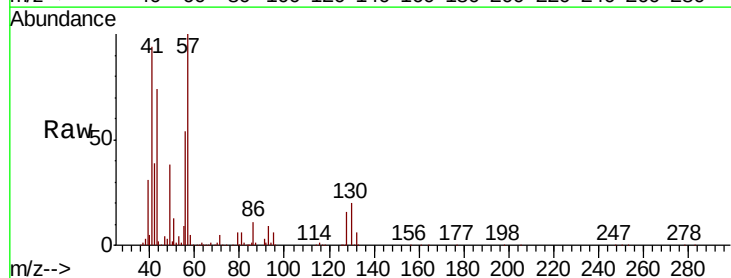
Instrument :
 MSVOA_L
 ClientSampleId :
 IA-1B

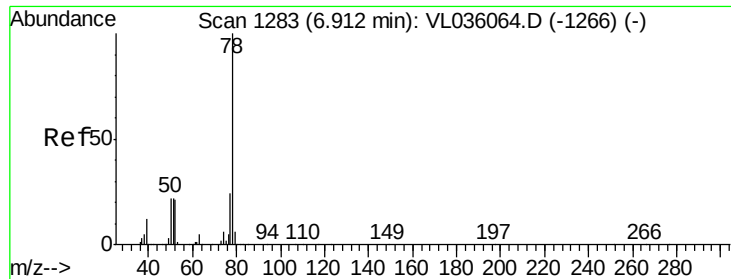
Tot Ion:114 Resp: 2577195
 Ion Ratio Lower Upper
 114 100
 63 29.3 23.6 35.4
 88 20.3 15.8 23.6



#34
 2-Butanone
 Concen: 4.278 ppbv
 RT: 5.70 min Scan# 907
 Delta R.T. 0.44 min
 Lab File: VL036079.D
 Acq: 8 Dec 2020 00:28

Tgt Ion: 43 Resp: 731404
 Ion Ratio Lower Upper
 43 100
 72 0.0 16.5 24.7#





#36

Benzene

Concen: 0.102 ppbv

RT: 6.91 min Scan# 1282

Delta R.T. -0.00 min

Lab File: VL036079.D

Acq: 8 Dec 2020 00:28

Instrument :

MSVOA_L

ClientSampleId :

IA-1B

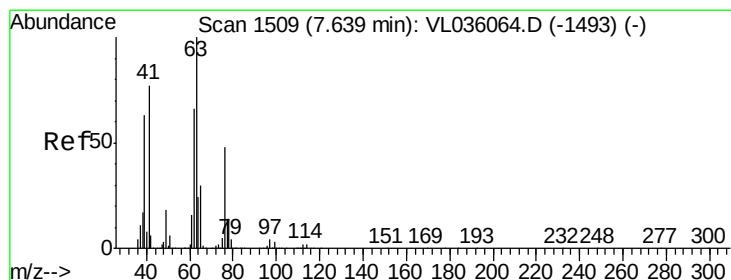
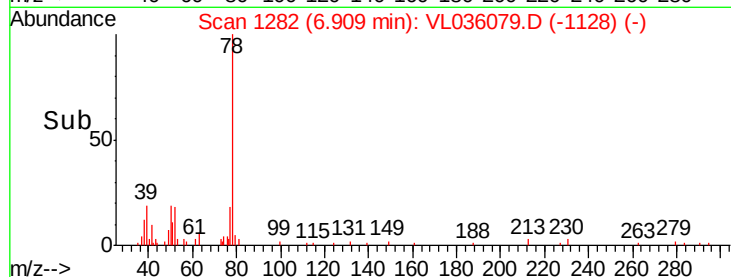
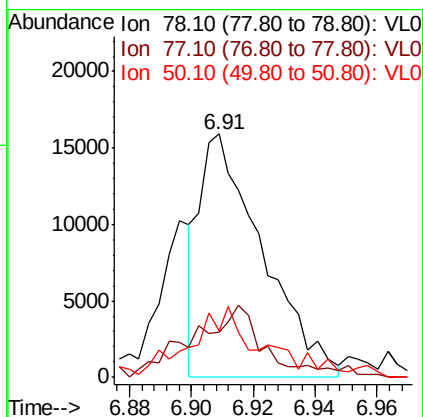
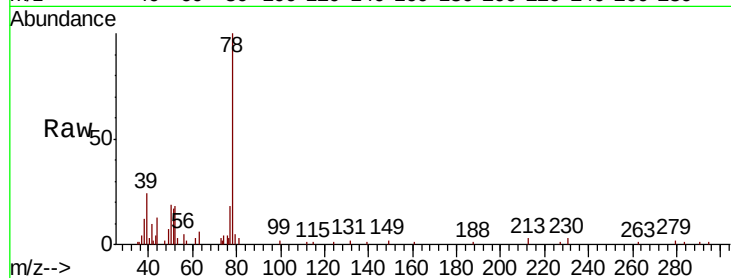
Tot Ion: 78 Resp: 22335

Ion Ratio Lower Upper

78 100

77 16.3 19.4 29.2#

50 17.1 17.8 26.8#



#39

1,2-Dichloropropane

Concen: 8.655 ppbv

RT: 7.19 min Scan# 1371

Delta R.T. -0.44 min

Lab File: VL036079.D

Acq: 8 Dec 2020 00:28

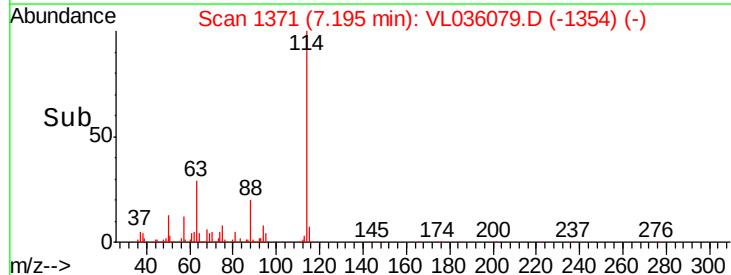
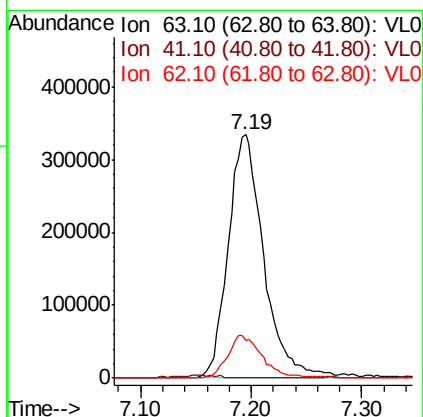
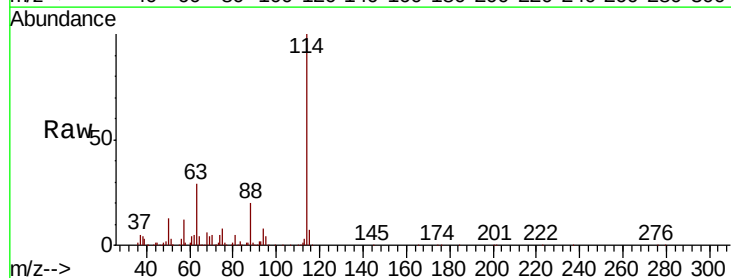
Tgt Ion: 63 Resp: 746546

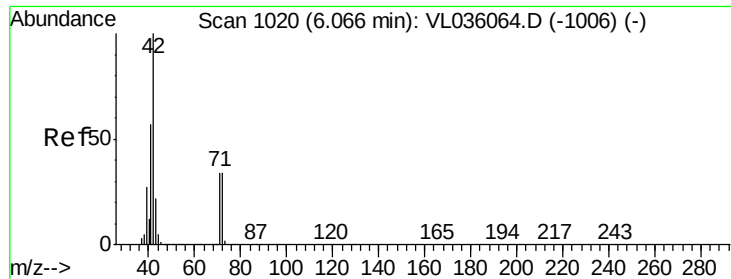
Ion Ratio Lower Upper

63 100

41 0.0 61.9 92.9#

62 15.5 52.5 78.7#

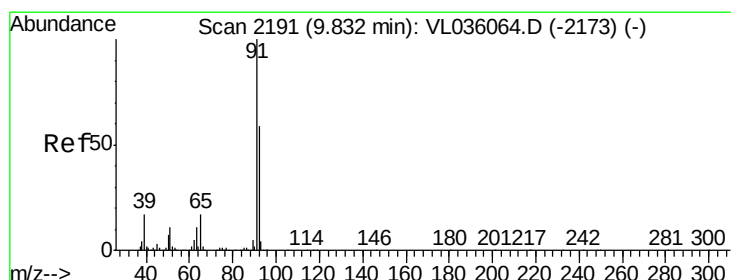
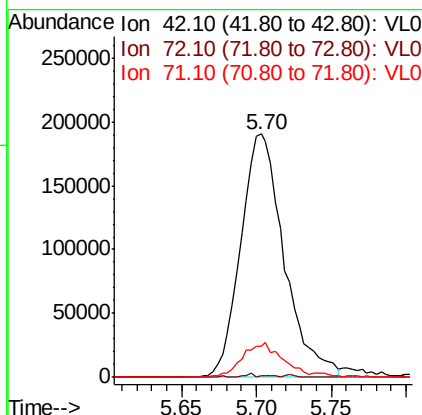
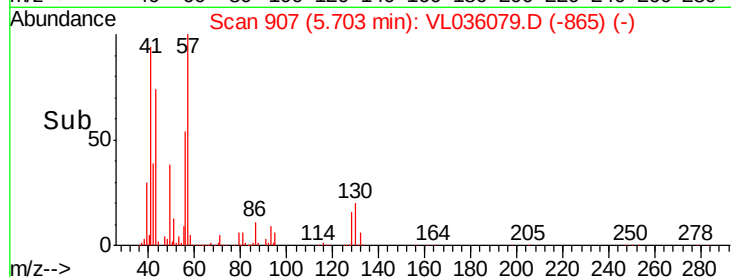
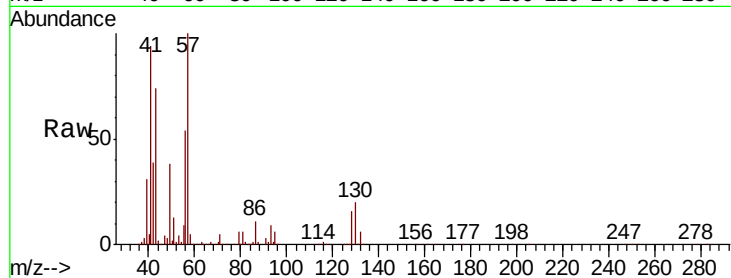




#41
Tetrahydrofuran
Concen: 3.780 ppbv
RT: 5.70 min Scan# 907
Delta R.T. -0.36 min
Lab File: VL036079.D
Acq: 8 Dec 2020 00:28

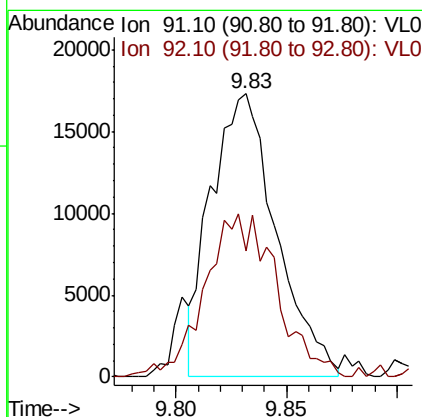
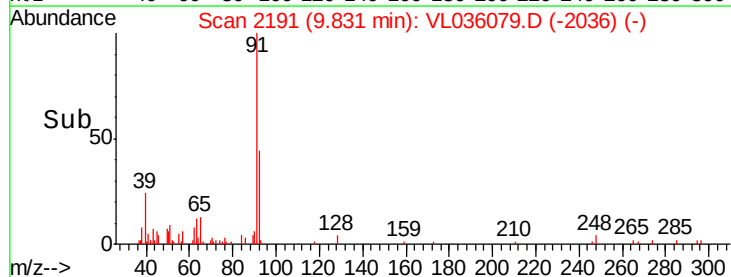
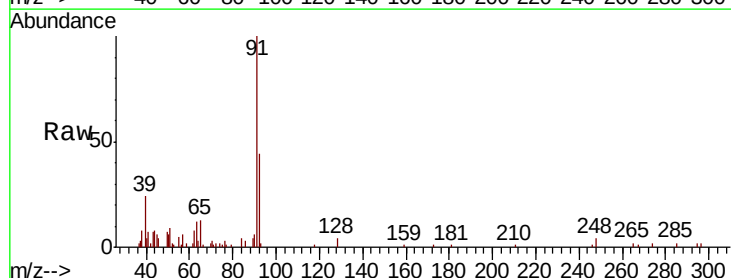
Instrument :
MSVOA_L
ClientSampleId :
IA-1B

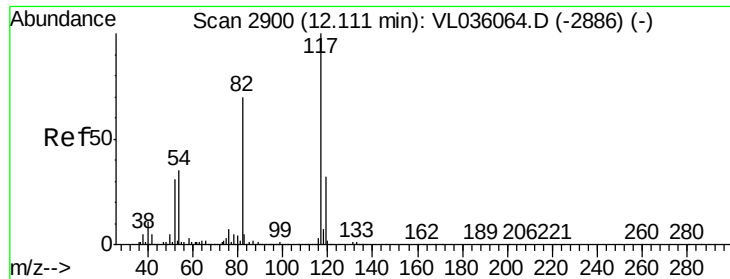
Tot Ion: 42 Resp: 383846
Ion Ratio Lower Upper
42 100
72 1.2 28.3 42.5#
71 14.3 27.3 40.9#



#53
Toluene
Concen: 0.145 ppbv
RT: 9.83 min Scan# 2191
Delta R.T. -0.00 min
Lab File: VL036079.D
Acq: 8 Dec 2020 00:28

Tgt Ion: 91 Resp: 35460
Ion Ratio Lower Upper
91 100
92 64.1 48.2 72.2

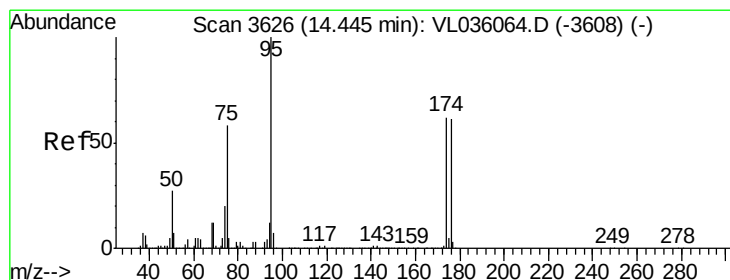
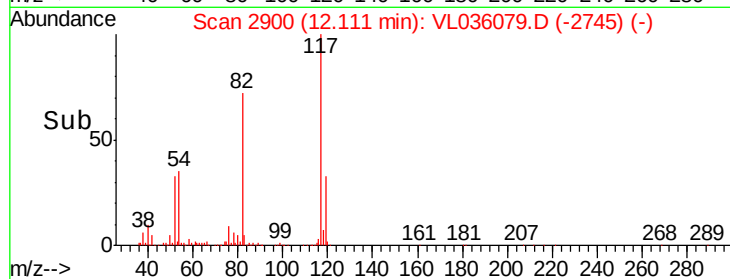
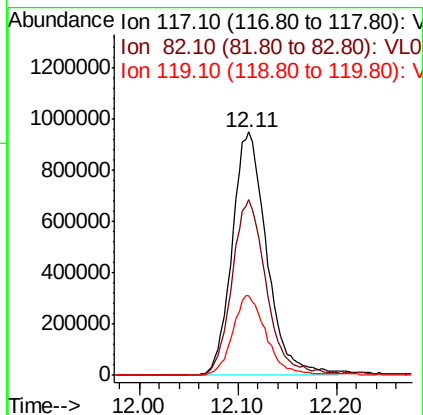
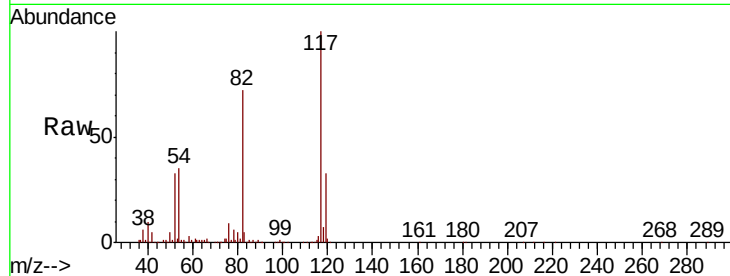




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.11 min Scan# 2900
Delta R.T. -0.00 min
Lab File: VL036079.D
Acq: 8 Dec 2020 00:28

Instrument :
MSVOA_L
ClientSampleId :
IA-1B

Tot Ion:117 Resp: 2317182
Ion Ratio Lower Upper
117 100
82 73.9 0.0 0.0#
119 32.5 0.0 0.0#



#68
1-Bromo-4-Fluorobenzene
Concen: 10.152 ppbv
RT: 14.45 min Scan# 3626
Delta R.T. -0.00 min
Lab File: VL036079.D
Acq: 8 Dec 2020 00:28

Tgt Ion: 95 Resp: 1867962
Ion Ratio Lower Upper
95 100
174 62.2 50.7 76.1
175 4.7 4.0 6.0

