

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL120820\
 Data File : VL036126.D
 Acq On : 9 Dec 2020 11:40
 Operator : SY/AP
 Sample : L4949-05DL2 40X
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-4DL2

Quant Time: Dec 10 00:29:45 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	5.67	49	1210742	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.19	114	2583841	10.00	ppbv	-0.01
55) Chlorobenzene-d5	12.10	117	2346502	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.43	95	2040729	10.95	ppbv	-0.01
Spiked Amount	10.000	Range	65 - 135	Recovery	=	109.50%

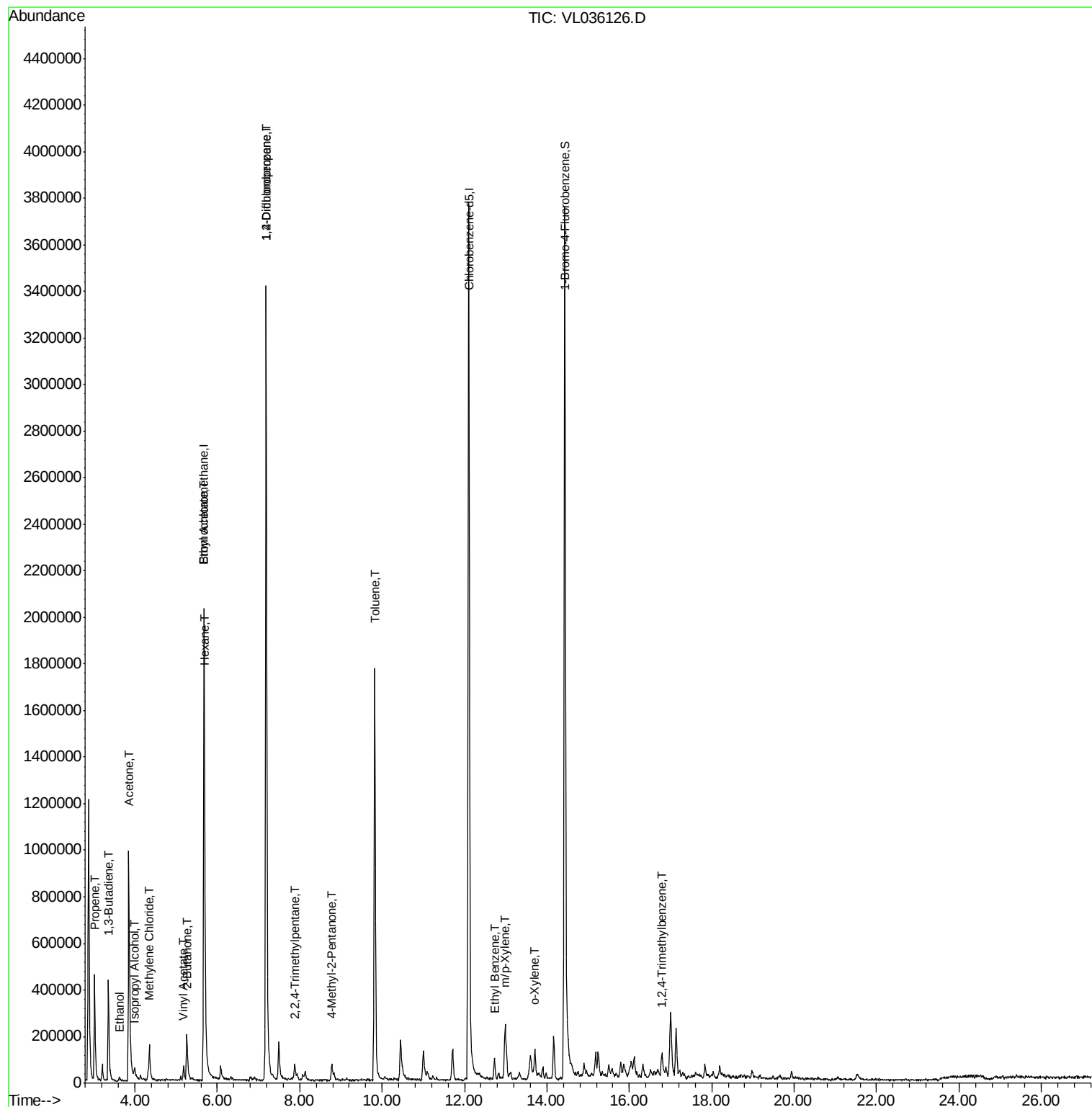
Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
9) Propene	3.02	41	106229	1.535	ppbv #	63
13) Ethanol	3.62	45	9655	1.012	ppbv	66
15) Acetone	3.85	43	1340652	9.213	ppbv	99
16) 1,3-Butadiene	3.36	39	69461	0.948	ppbv #	14
19) Isopropyl Alcohol	3.99	45	31198	0.351	ppbv #	100
20) Methylene Chloride	4.35	84	47391	0.795	ppbv	93
23) Vinyl Acetate	5.17	43	8887	0.046	ppbv #	32
25) Ethyl Acetate	5.69	43	173474	0.597	ppbv #	68
26) Hexane	5.70	57	19020	0.145	ppbv #	1
34) 2-Butanone	5.26	43	266841	1.557	ppbv	92
39) 1,2-Dichloropropane	7.19	63	805285	9.312	ppbv #	24
44) 2,2,4-Trimethylpentane	7.88	57	64934	0.164	ppbv	91
50) 4-Methyl-2-Pentanone	8.77	43	31466	0.123	ppbv #	40
53) Toluene	9.82	91	1443143	5.869	ppbv	100
58) Ethyl Benzene	12.73	91	72082	0.224	ppbv	93
59) m/p-Xylene	13.00	91	82726	0.305	ppbv #	34
60) o-Xylene	13.71	91	59783	0.234	ppbv	72
74) 1,2,4-Trimethylbenzene	16.78	105	20045	0.076	ppbv #	61

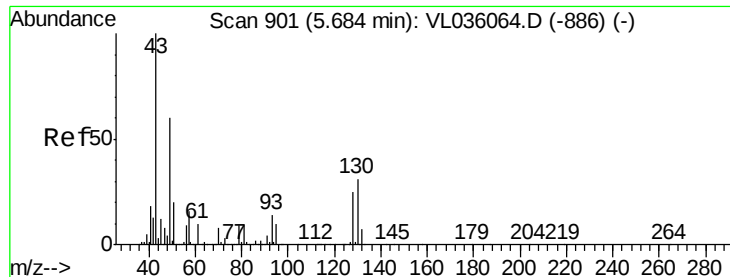
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.67 min Scan# 898

Delta R.T. -0.01 min

Lab File: VL036126.D

Acq: 9 Dec 2020 11:40

Instrument :

MSVOA_L

ClientSampleId :

IA-4DL2

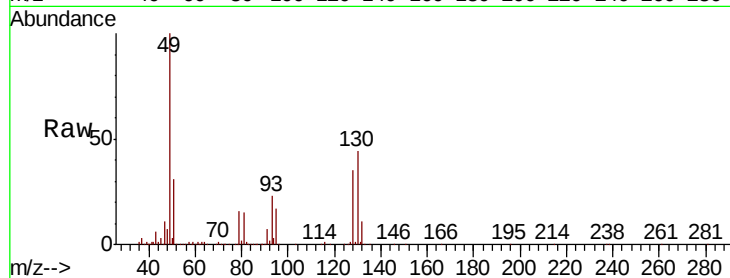
Tot Ion: 49 Resp: 1210742

Ion Ratio Lower Upper

49 100

128 37.9 21.1 63.1

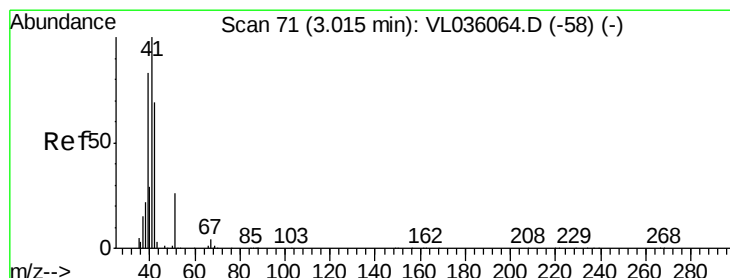
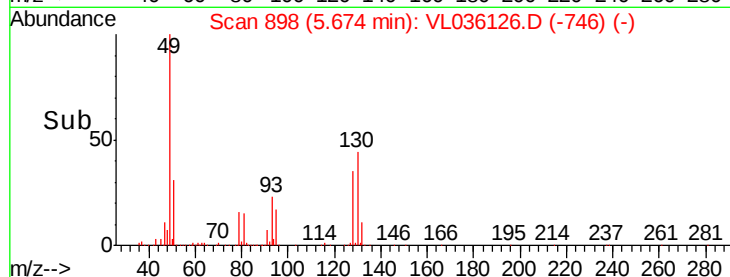
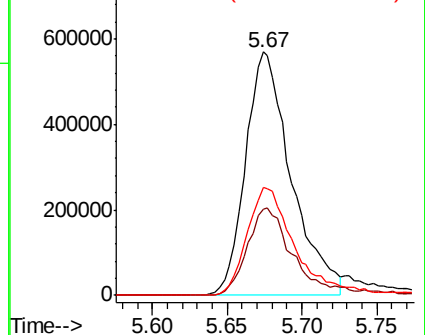
130 48.1 27.1 81.3



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



#9

Propene

Concen: 1.535 ppbv

RT: 3.02 min Scan# 73

Delta R.T. 0.01 min

Lab File: VL036126.D

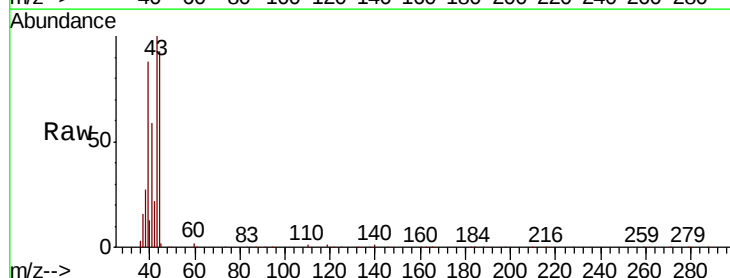
Acq: 9 Dec 2020 11:40

Tgt Ion: 41 Resp: 106229

Ion Ratio Lower Upper

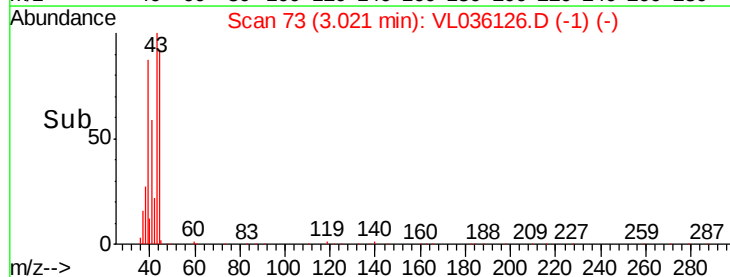
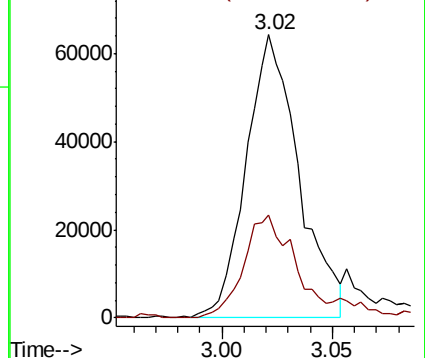
41 100

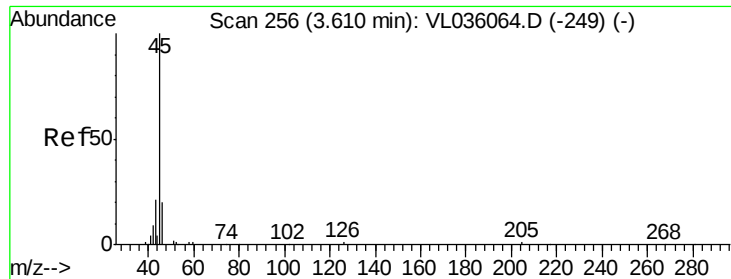
42 40.9 57.0 85.6#



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0





#13

Ethanol

Concen: 1.012 ppbv

RT: 3.62 min Scan# 258

Delta R.T. 0.01 min

Lab File: VL036126.D

Acq: 9 Dec 2020 11:40

Instrument :

MSVOA_L

ClientSampleId :

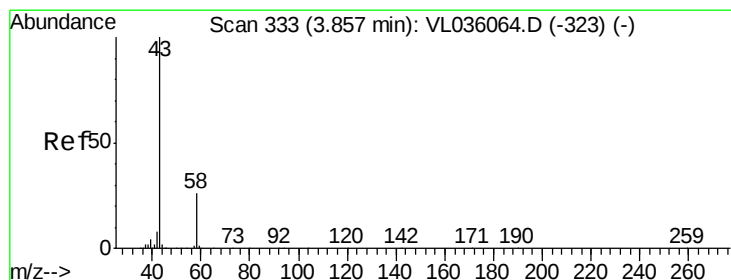
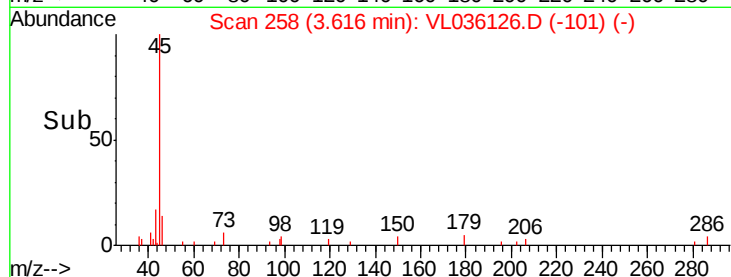
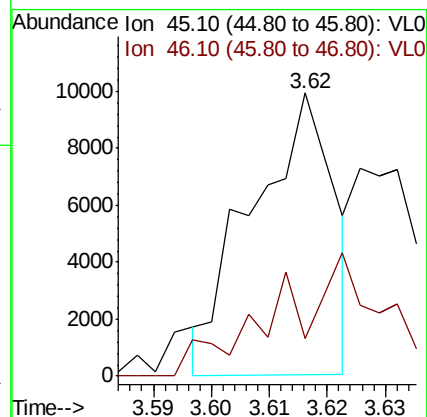
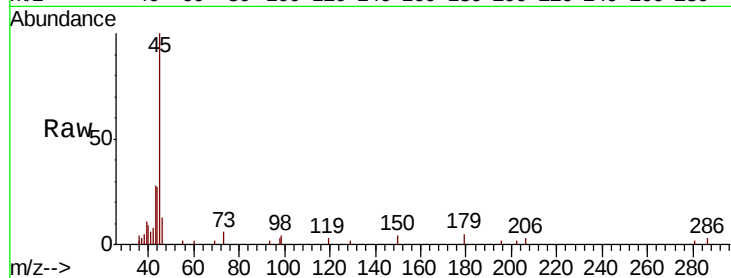
IA-4DL2

Tot Ion: 45 Resp: 9655

Ion Ratio Lower Upper

45 100

46 24.8 19.0 75.8



#15

Acetone

Concen: 9.213 ppbv

RT: 3.85 min Scan# 331

Delta R.T. -0.01 min

Lab File: VL036126.D

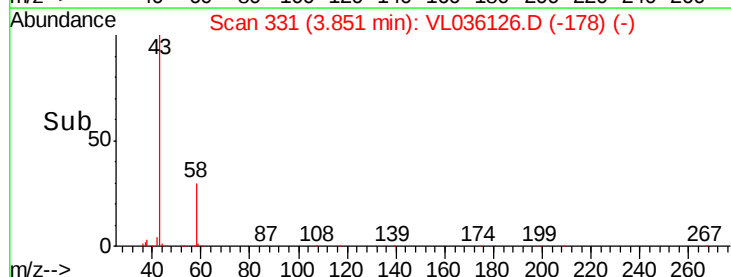
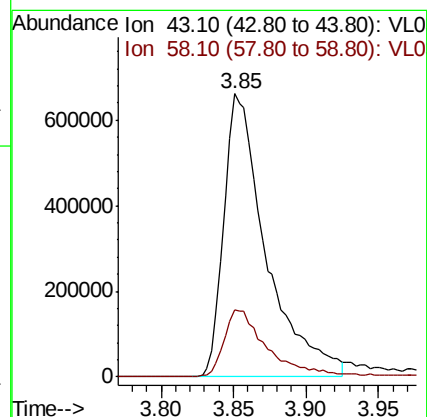
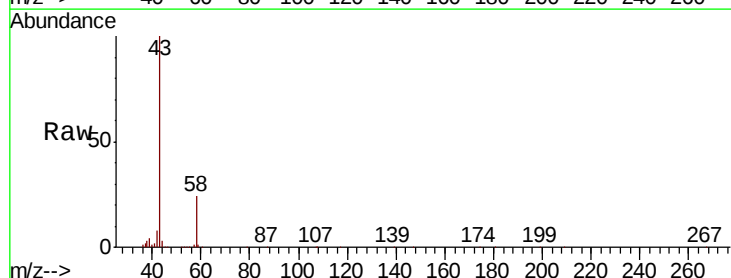
Acq: 9 Dec 2020 11:40

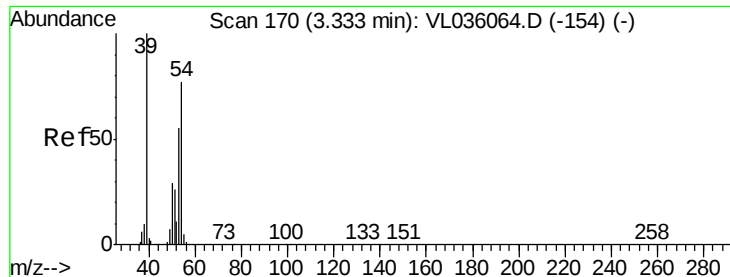
Tgt Ion: 43 Resp: 1340652

Ion Ratio Lower Upper

43 100

58 25.5 20.9 31.3

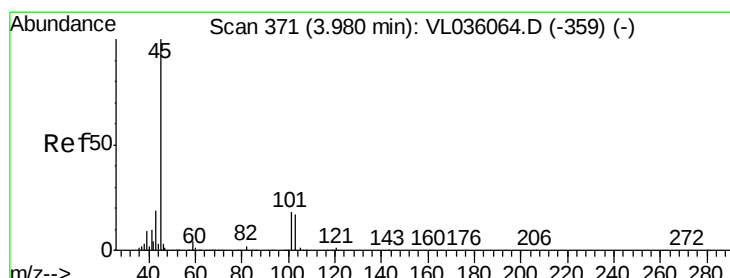
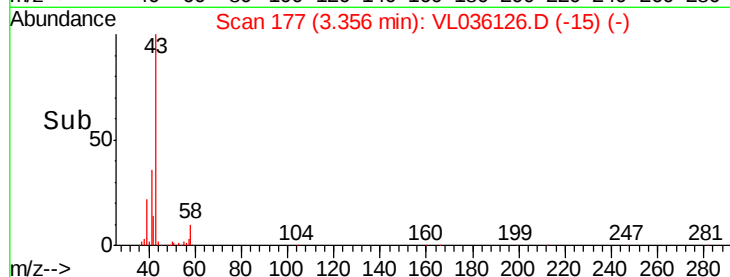
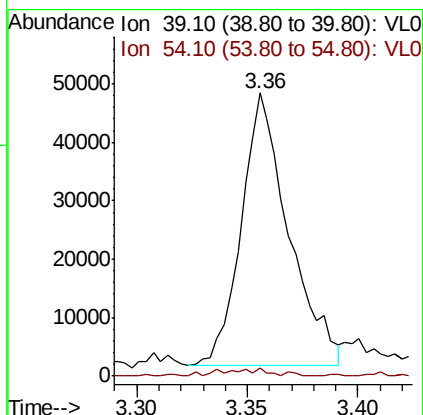
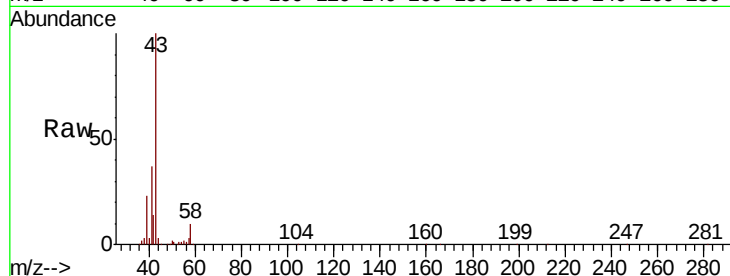




#16
 1,3-Butadiene
 Concen: 0.948 ppbv
 RT: 3.36 min Scan# 177
 Delta R.T. 0.02 min
 Lab File: VL036126.D
 Acq: 9 Dec 2020 11:40

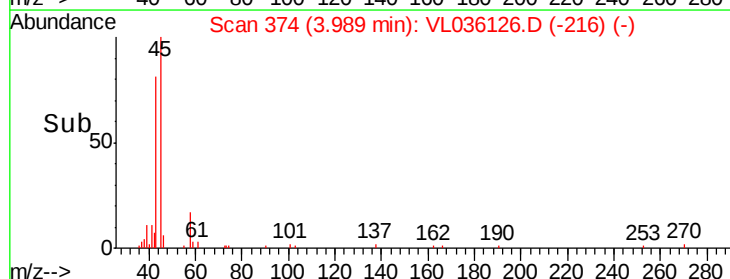
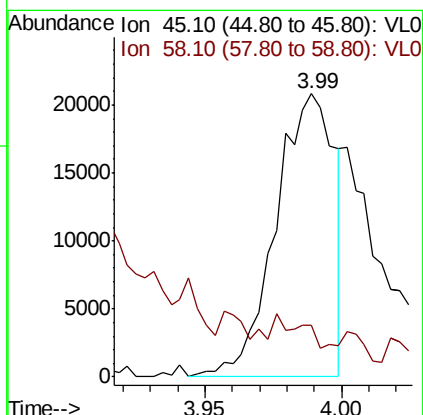
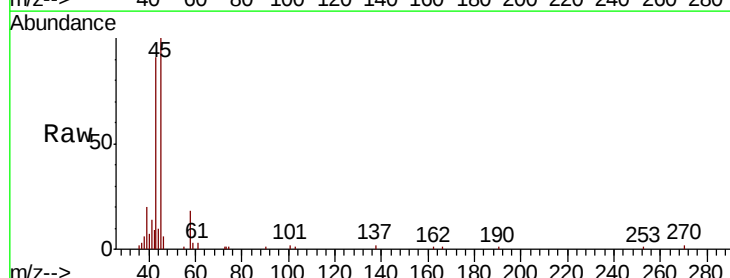
Instrument :
 MSVOA_L
 ClientSampled :
 IA-4DL2

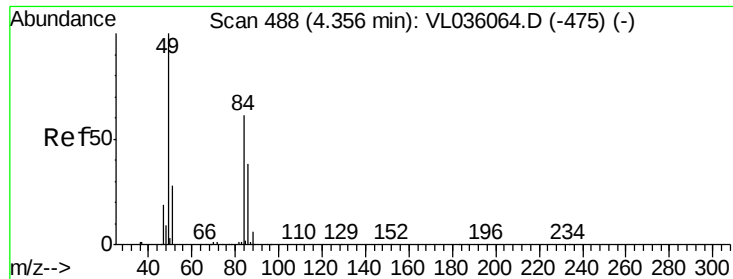
Tot Ion: 39 Resp: 69461
 Ion Ratio Lower Upper
 39 100
 54 3.1 62.1 93.1#



#19
 Isopropyl Alcohol
 Concen: 0.351 ppbv
 RT: 3.99 min Scan# 374
 Delta R.T. 0.01 min
 Lab File: VL036126.D
 Acq: 9 Dec 2020 11:40

Tgt Ion: 45 Resp: 31198
 Ion Ratio Lower Upper
 45 100
 58 0.0 0.0 0.0

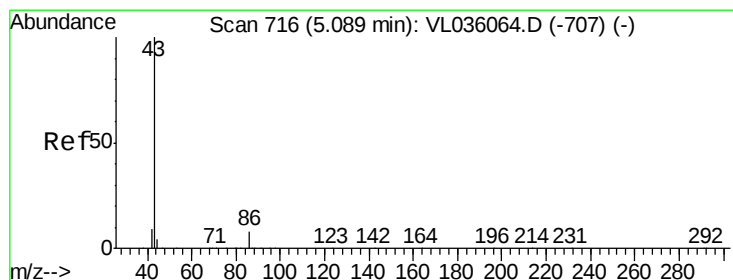
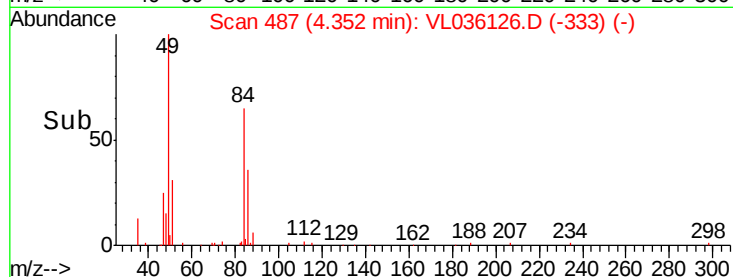
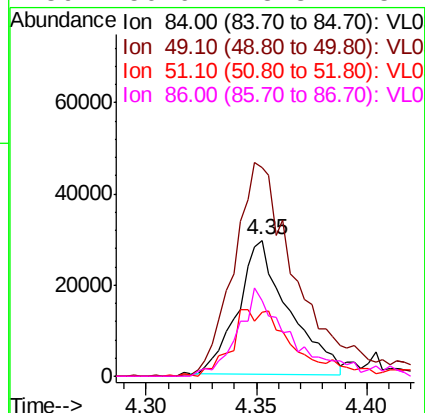
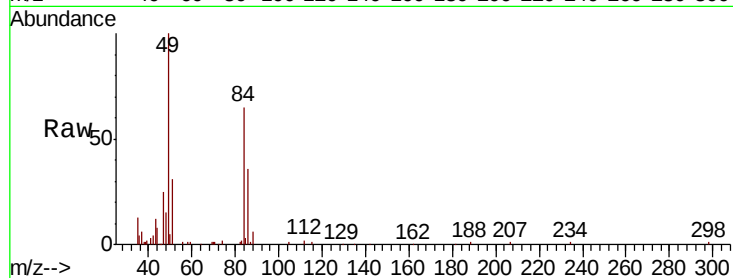




#20
Methvlene Chloride
Concen: 0.795 ppbv
RT: 4.35 min Scan# 487
Delta R.T. -0.00 min
Lab File: VL036126.D
Acq: 9 Dec 2020 11:40

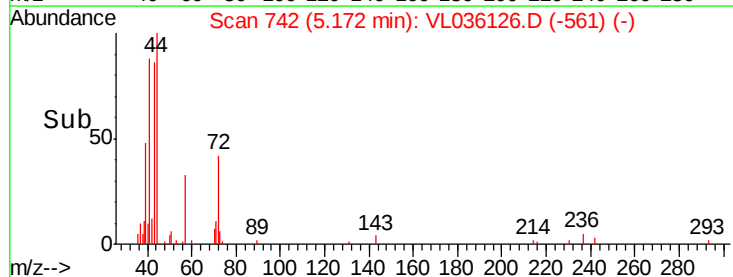
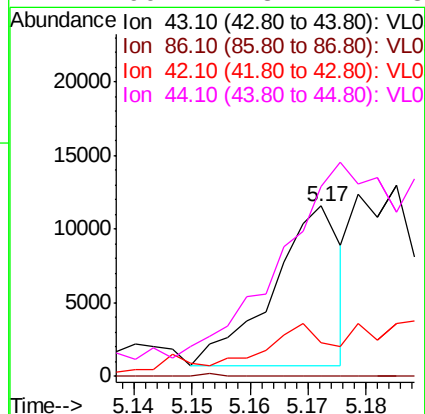
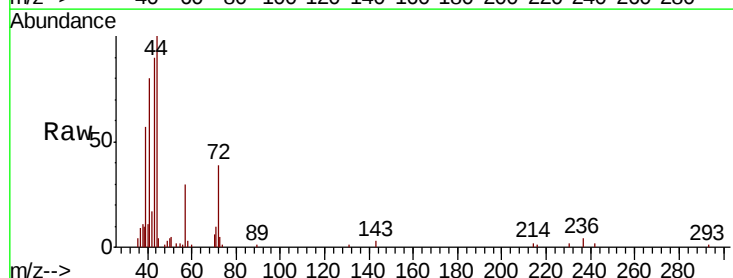
Instrument :
MSVOA_L
ClientSampleId :
IA-4DL2

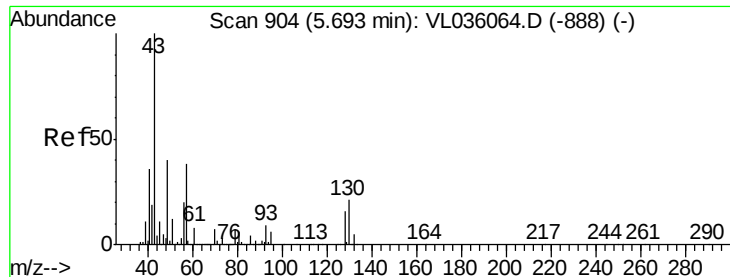
Tot Ion:	84	Resp:	47391
Ion	Ratio	Lower	Upper
84	100		
49	154.3	133.0	199.4
51	46.8	38.9	58.3
86	56.6	48.8	73.2



#23
Vinyl Acetate
Concen: 0.046 ppbv
RT: 5.17 min Scan# 742
Delta R.T. 0.08 min
Lab File: VL036126.D
Acq: 9 Dec 2020 11:40

Tgt Ion:	43	Resp:	8887
Ion	Ratio	Lower	Upper
43	100		
86	0.0	5.0	7.4#
42	12.5	7.8	11.6#
44	99.7	3.2	4.8#

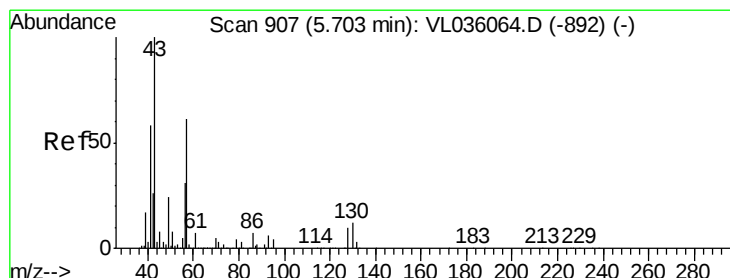
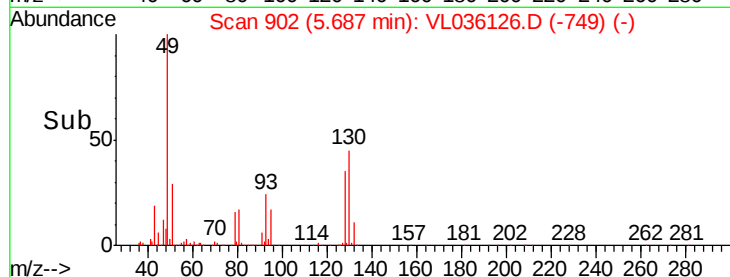
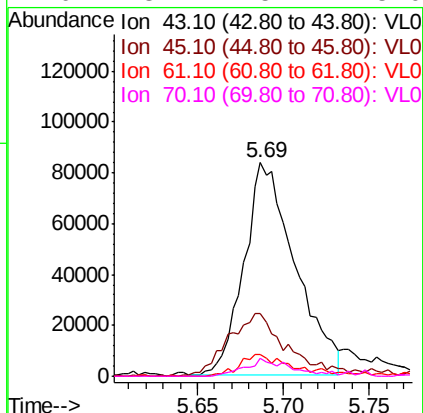
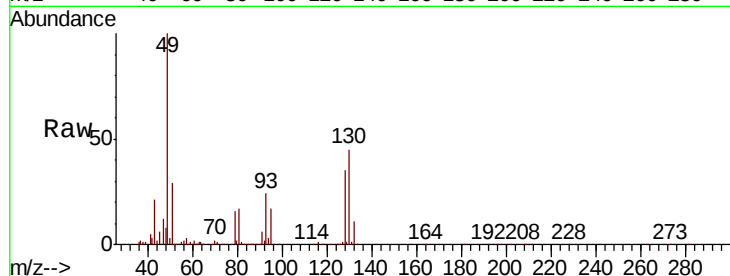




#25
Ethyl Acetate
Concen: 0.597 ppbv
RT: 5.69 min Scan# 902
Delta R.T. -0.01 min
Lab File: VL036126.D
Acq: 9 Dec 2020 11:40

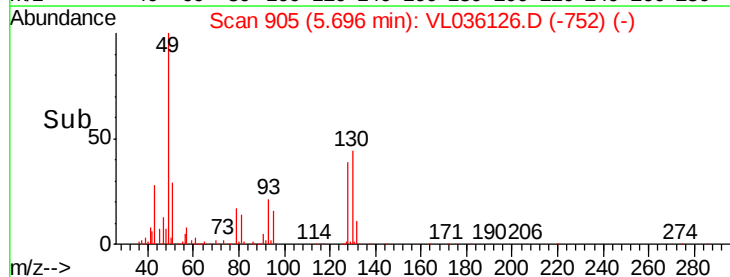
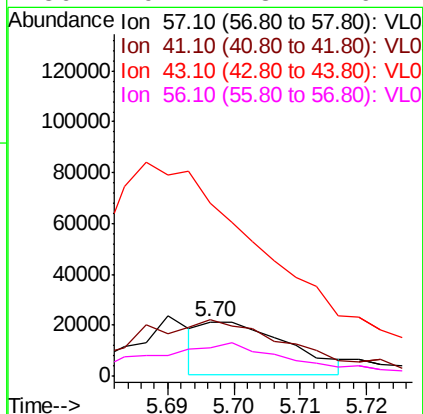
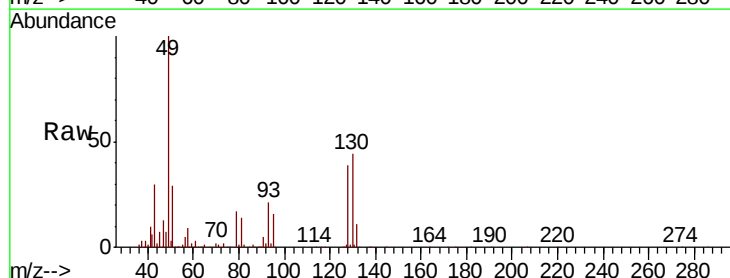
Instrument :
MSVOA_L
ClientSampleId :
IA-4DL2

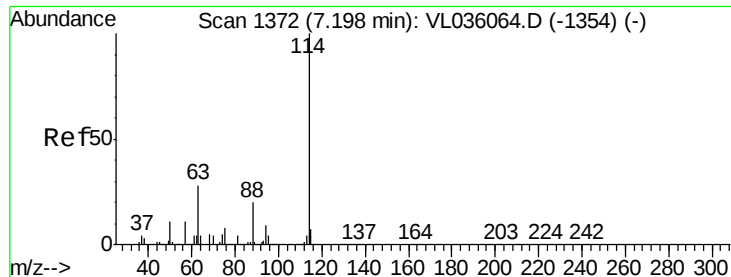
Tot Ion:	43	Resp:	173474
Ion	Ratio	Lower	Upper
43	100		
45	36.8	8.2	12.4#
61	12.0	7.4	11.2#
70	8.2	5.4	8.0#



#26
Hexane
Concen: 0.145 ppbv
RT: 5.70 min Scan# 905
Delta R.T. -0.01 min
Lab File: VL036126.D
Acq: 9 Dec 2020 11:40

Tgt Ion:	57	Resp:	19020
Ion	Ratio	Lower	Upper
57	100		
41	235.2	82.9	124.3#
43	0.0	199.9	299.9#
56	129.4	43.1	64.7#

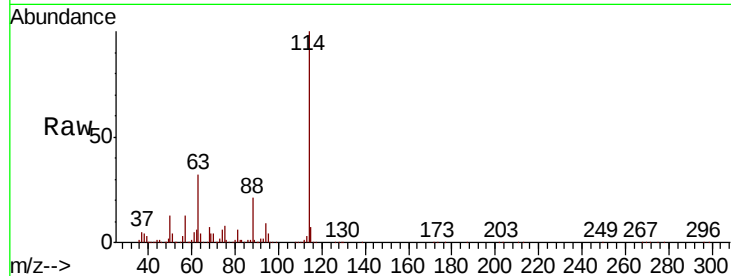




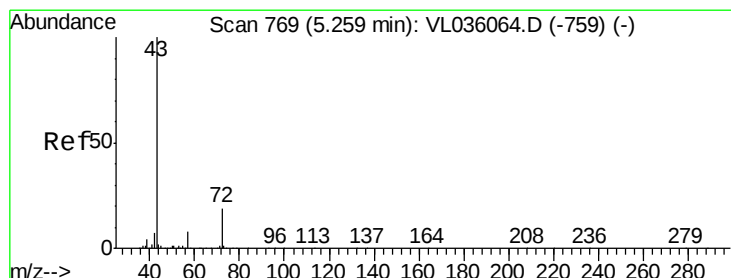
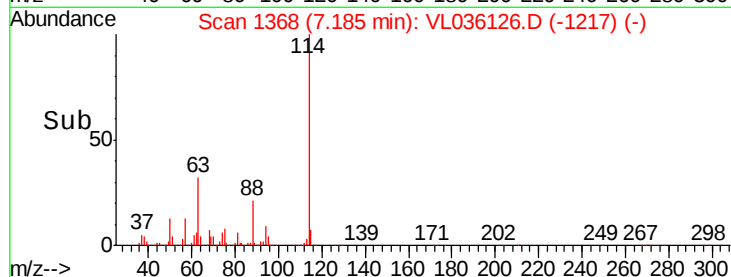
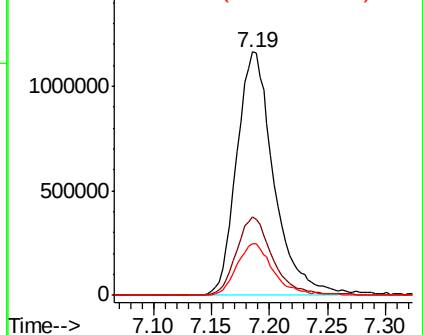
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.19 min Scan# 1368
 Delta R.T. -0.01 min
 Lab File: VL036126.D
 Acq: 9 Dec 2020 11:40

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-4DL2

Tot Ion:114 Resp: 2583841
 Ion Ratio Lower Upper
 114 100
 63 31.8 23.6 35.4
 88 21.1 15.8 23.6

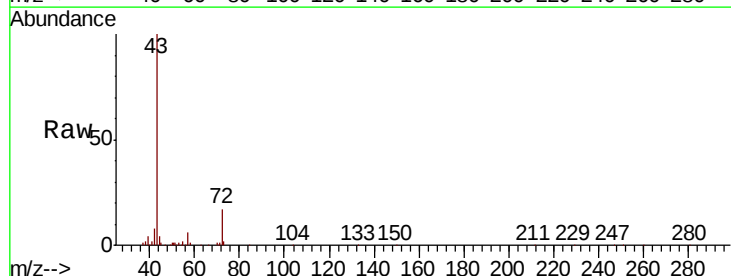


Abundance Ion 114.10 (113.80 to 114.80): V
 Ion 63.10 (62.80 to 63.80): VL0
 Ion 88.10 (87.80 to 88.80): VL0

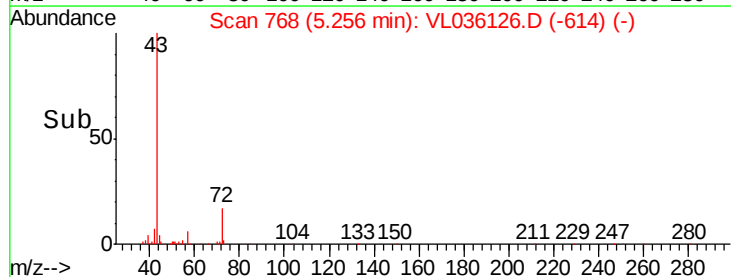
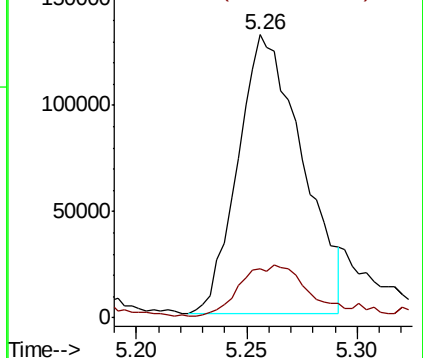


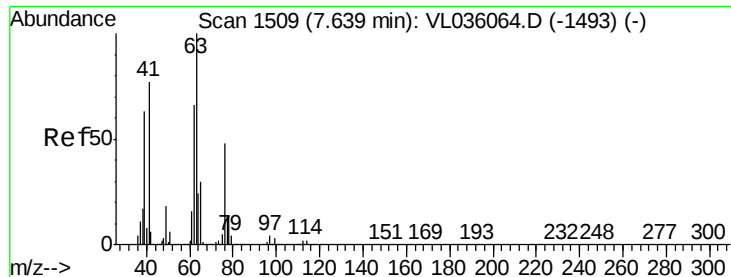
#34
 2-Butanone
 Concen: 1.557 ppbv
 RT: 5.26 min Scan# 768
 Delta R.T. -0.00 min
 Lab File: VL036126.D
 Acq: 9 Dec 2020 11:40

Tgt Ion: 43 Resp: 266841
 Ion Ratio Lower Upper
 43 100
 72 24.5 16.5 24.7



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





#39

1,2-Dichloropropane

Concen: 9.312 ppbv

RT: 7.19 min Scan# 1368

Delta R.T. -0.45 min

Lab File: VL036126.D

Acq: 9 Dec 2020 11:40

Instrument :

MSVOA_L

ClientSampleId :

IA-4DL2

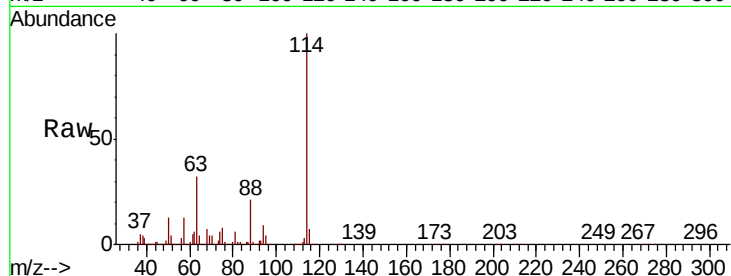
Tot Ion: 63 Resp: 805285

Ion Ratio Lower Upper

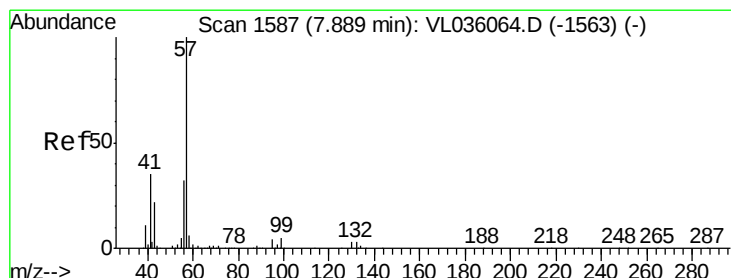
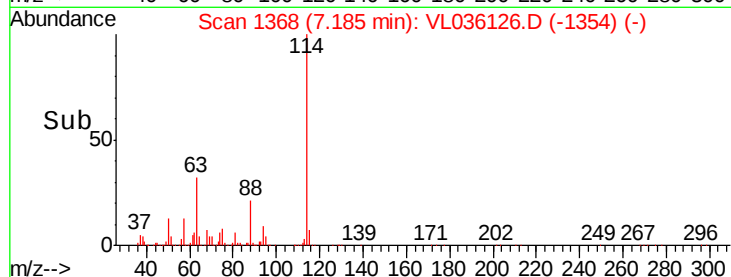
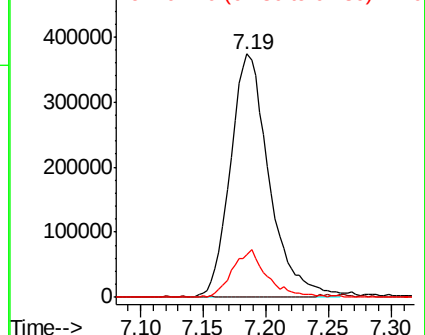
63 100

41 0.0 61.9 92.9#

62 17.3 52.5 78.7#



Abundance Ion 63.10 (62.80 to 63.80): VL0
Ion 41.10 (40.80 to 41.80): VL0
Ion 62.10 (61.80 to 62.80): VL0



#44

2,2,4-Trimethylpentane

Concen: 0.164 ppbv

RT: 7.88 min Scan# 1584

Delta R.T. -0.01 min

Lab File: VL036126.D

Acq: 9 Dec 2020 11:40

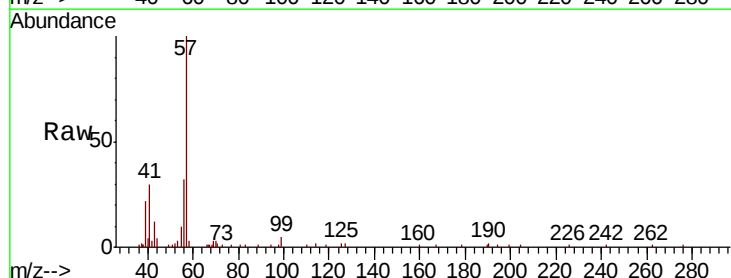
Tgt Ion: 57 Resp: 64934

Ion Ratio Lower Upper

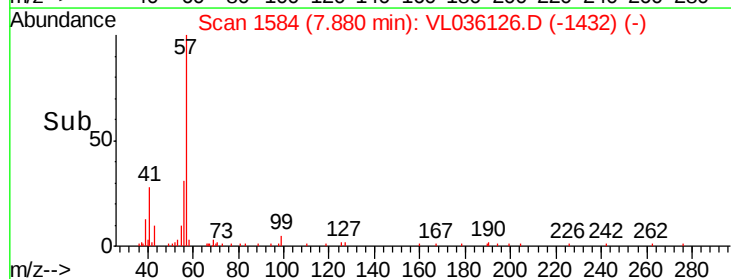
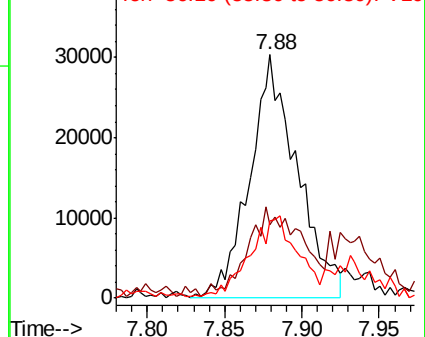
57 100

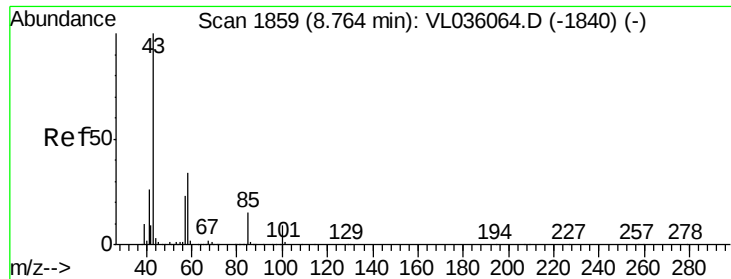
41 43.1 28.9 43.3

56 35.2 25.3 37.9



Abundance Ion 57.10 (56.80 to 57.80): VL0
Ion 41.10 (40.80 to 41.80): VL0
Ion 56.10 (55.80 to 56.80): VL0

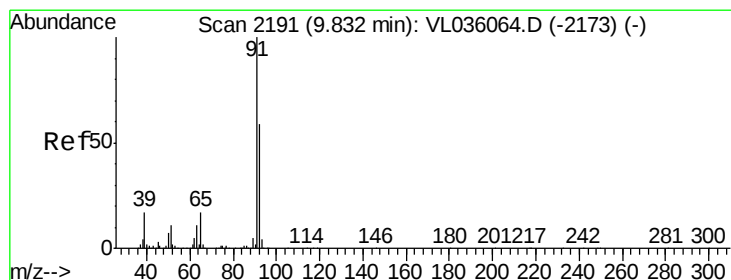
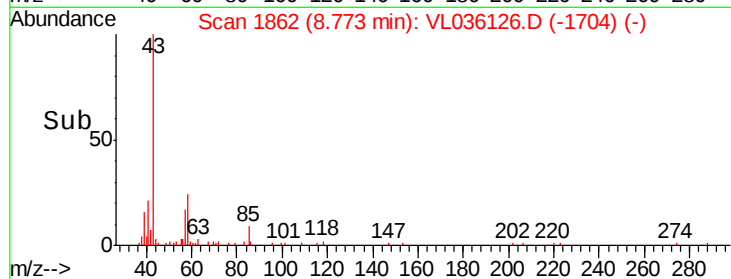
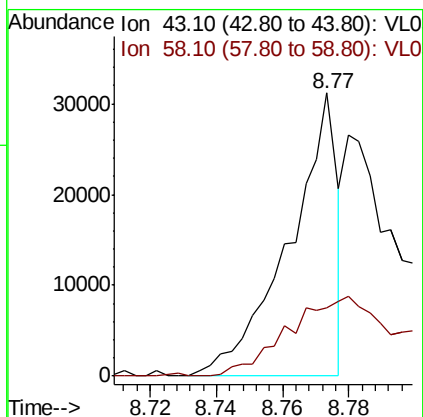
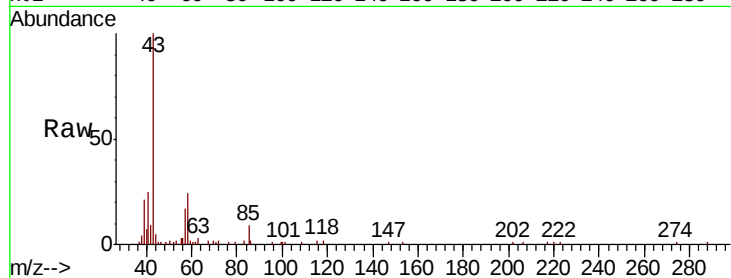




#50
4-Methyl-2-Pentanone
Concen: 0.123 ppbv
RT: 8.77 min Scan# 1862
Delta R.T. 0.01 min
Lab File: VL036126.D
Acq: 9 Dec 2020 11:40

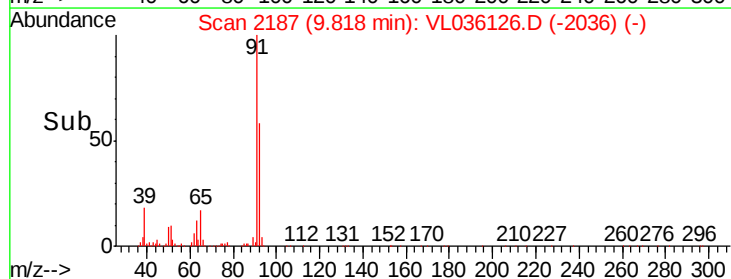
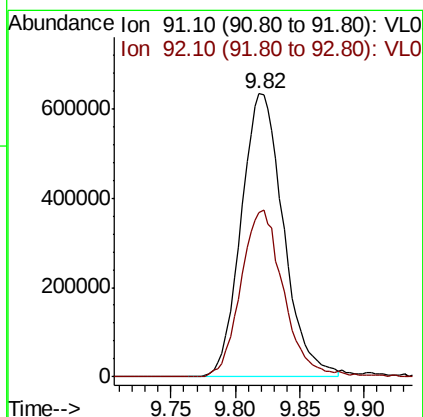
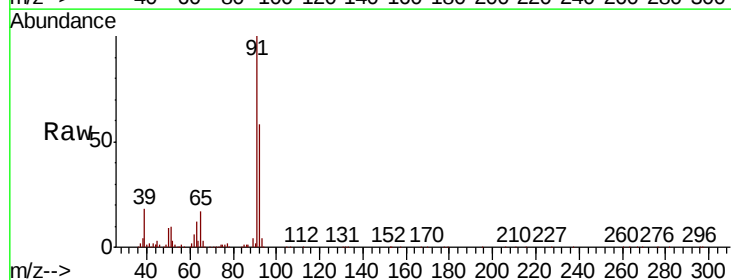
Instrument :
MSVOA_L
ClientSampleId :
IA-4DL2

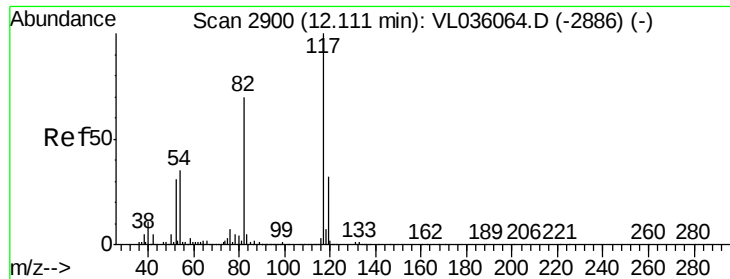
Tot Ion: 43 Resp: 31466
Ion Ratio Lower Upper
43 100
58 0.0 27.4 41.2#



#53
Toluene
Concen: 5.869 ppbv
RT: 9.82 min Scan# 2187
Delta R.T. -0.01 min
Lab File: VL036126.D
Acq: 9 Dec 2020 11:40

Tgt Ion: 91 Resp: 1443143
Ion Ratio Lower Upper
91 100
92 60.0 48.2 72.2

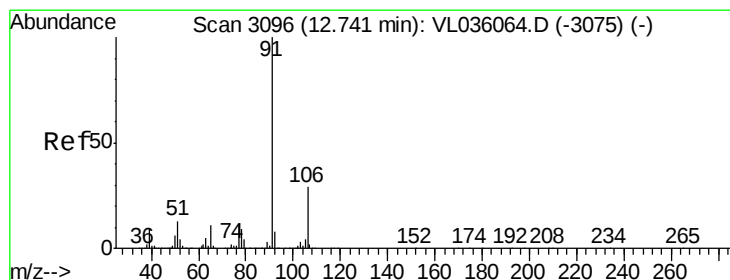
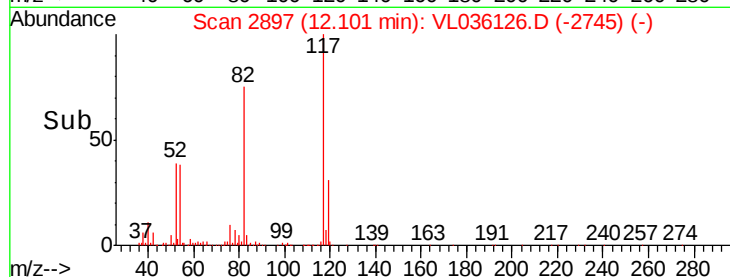
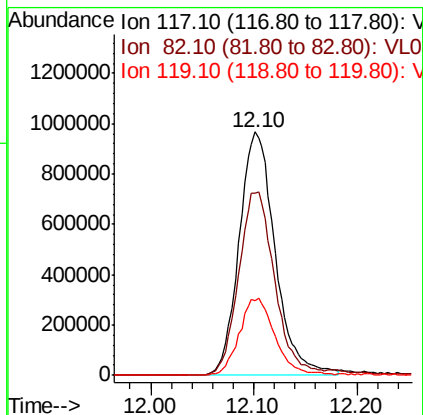
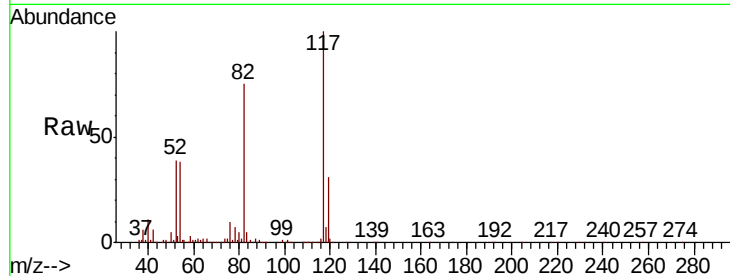




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.10 min Scan# 2897
Delta R.T. -0.01 min
Lab File: VL036126.D
Acq: 9 Dec 2020 11:40

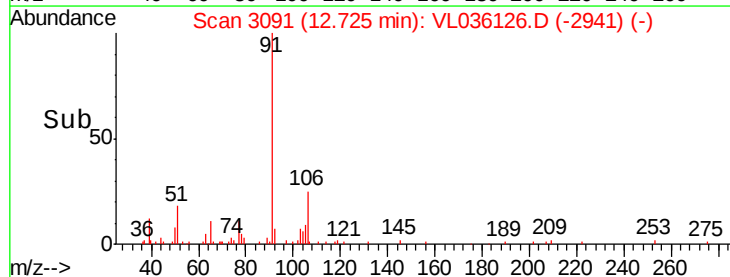
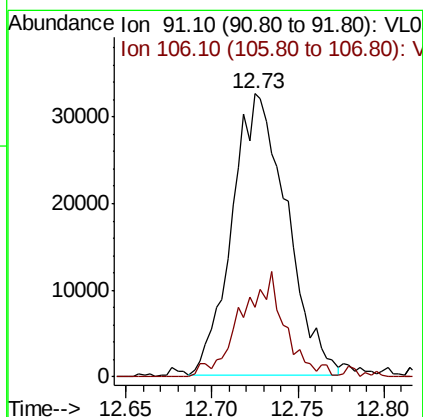
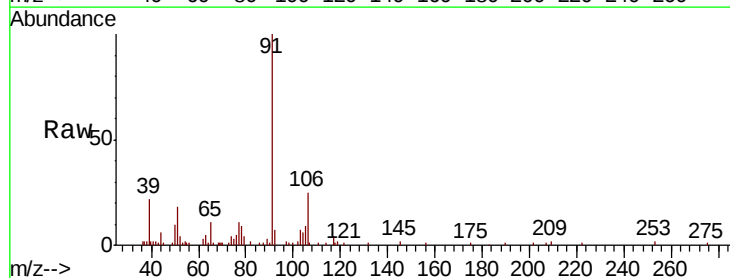
Instrument :
MSVOA_L
ClientSampleId :
IA-4DL2

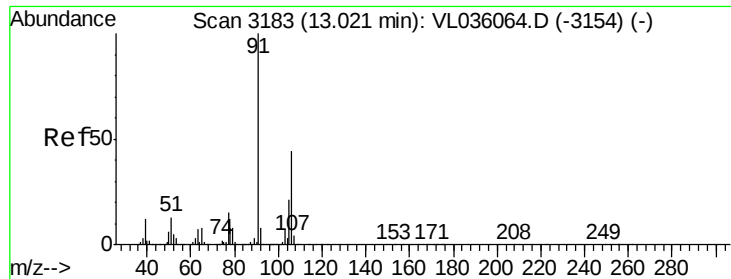
Tot Ion:117 Resp: 2346502
Ion Ratio Lower Upper
117 100
82 77.8 0.0 0.0#
119 32.3 0.0 0.0#



#58
Ethyl Benzene
Concen: 0.224 ppbv
RT: 12.73 min Scan# 3091
Delta R.T. -0.02 min
Lab File: VL036126.D
Acq: 9 Dec 2020 11:40

Tgt Ion: 91 Resp: 72082
Ion Ratio Lower Upper
91 100
106 24.8 23.0 34.4





#59

m/p-Xylene

Concen: 0.305 ppbv

RT: 13.00 min Scan# 3178

Delta R.T. -0.02 min

Lab File: VL036126.D

Acq: 9 Dec 2020 11:40

Instrument :

MSVOA_L

ClientSampleId :

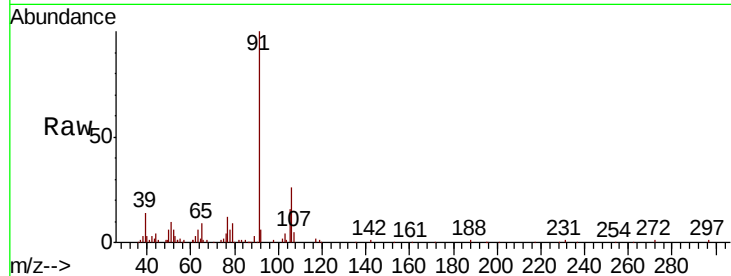
IA-4DL2

Tot Ion: 91 Resp: 82726

Ion Ratio Lower Upper

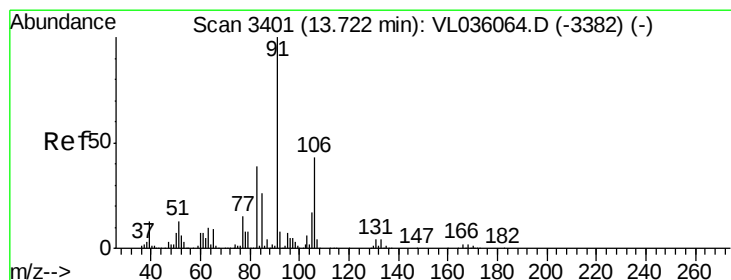
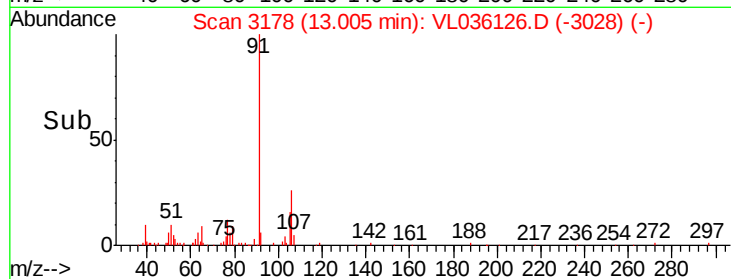
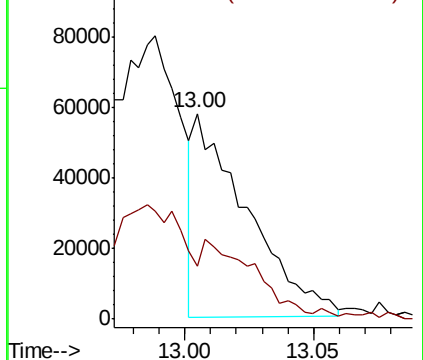
91 100

106 0.0 33.6 50.4#



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V



#60

o-Xylene

Concen: 0.234 ppbv

RT: 13.71 min Scan# 3397

Delta R.T. -0.01 min

Lab File: VL036126.D

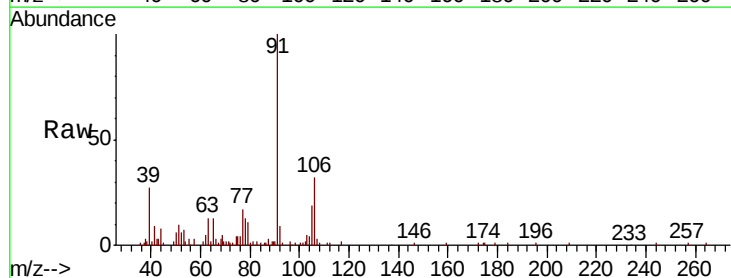
Acq: 9 Dec 2020 11:40

Tgt Ion: 91 Resp: 59783

Ion Ratio Lower Upper

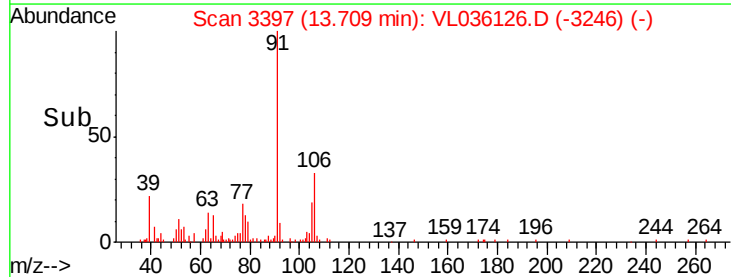
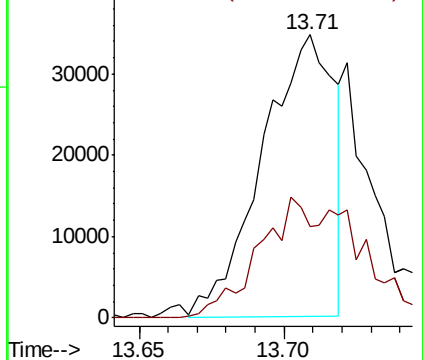
91 100

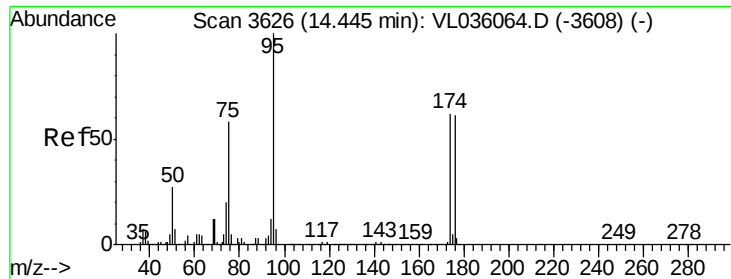
106 61.2 21.6 64.6



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V





#68

1-Bromo-4-Fluorobenzene

Concen: 10.953 ppbv

RT: 14.43 min Scan# 3622

Delta R.T. -0.01 min

Lab File: VL036126.D

Acq: 9 Dec 2020 11:40

Instrument :

MSVOA_L

ClientSampleId :

IA-4DL2

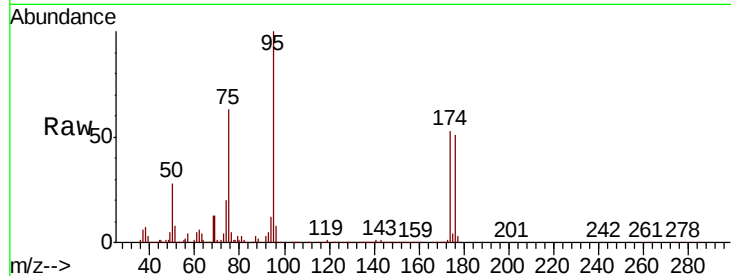
Tot Ion: 95 Resp: 2040729

Ion Ratio Lower Upper

95 100

174 55.4 50.7 76.1

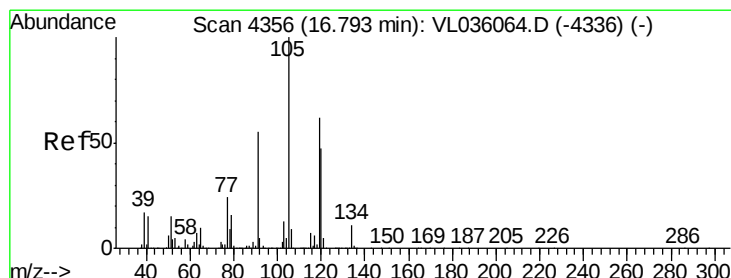
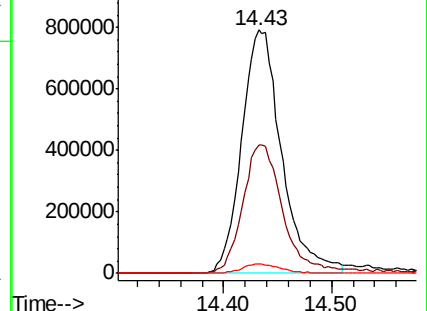
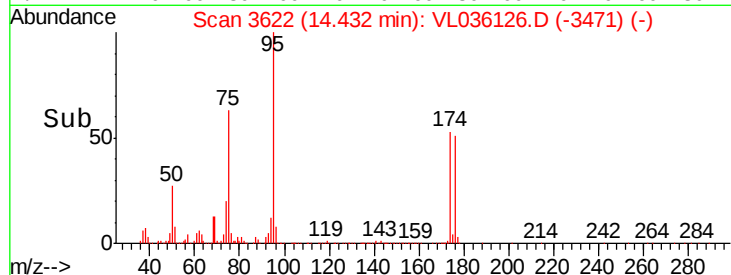
175 3.8 4.0 6.0#



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



#74

1,2,4-Trimethylbenzene

Concen: 0.076 ppbv

RT: 16.78 min Scan# 4353

Delta R.T. -0.01 min

Lab File: VL036126.D

Acq: 9 Dec 2020 11:40

Tgt Ion:105 Resp: 20045

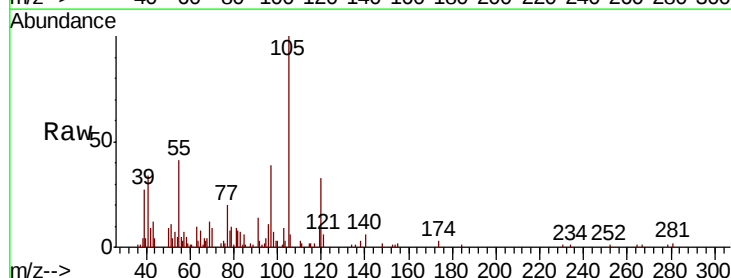
Ion Ratio Lower Upper

105 100

120 35.7 37.4 56.0#

91 6.5 45.6 68.4#

77 17.7 19.4 29.2#



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

