

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL110420\
 Data File : VL035841.D
 Acq On : 4 Nov 2020 20:06
 Operator : SY/AP
 Sample : L4610-06DL 10X
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Nov 05 02:57:47 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL110320AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Nov 04 02:40:06 2020
 QLast Update : Wed Nov 04 02:40:06 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.64	49	1035969	10.00	ppbv	-0.03
33) 1,4-Difluorobenzene	7.14	114	4671901	10.00	ppbv	-0.04
55) Chlorobenzene-d5	12.05	117	4272015	10.00	ppbv	-0.04

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.38	95	3040571	10.02	ppbv	-0.04
Spiked Amount	10.000	Range	65 - 135	Recovery	=	100.20%

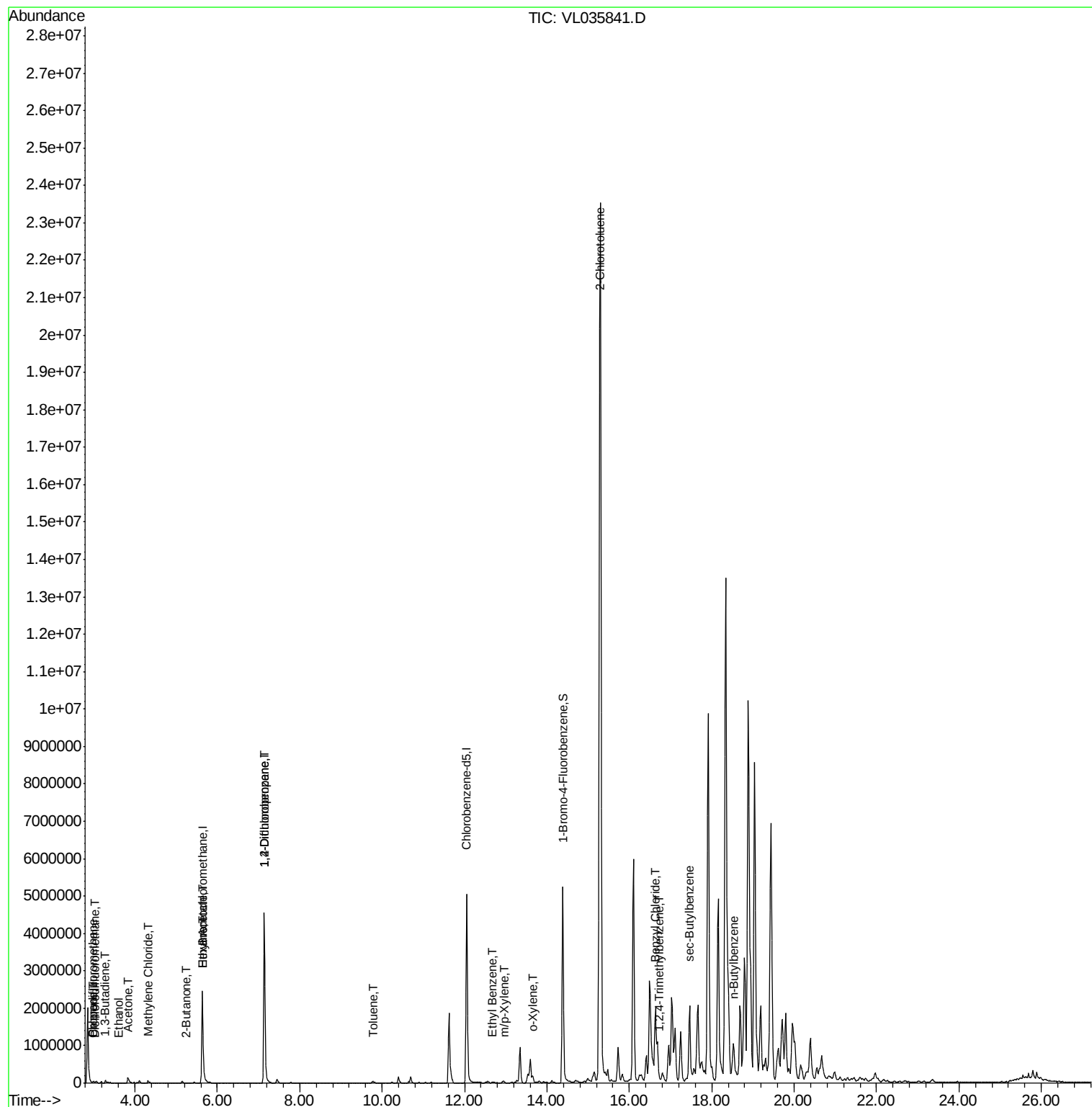
Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.02	85	9825	0.050	ppbv	98
3) Chlorodifluoromethane	2.96	51	4648	0.037	ppbv	94
9) Propene	2.99	41	26799	0.590	ppbv	98
13) Ethanol	3.59	45	2967	0.301	ppbv #	35
15) Acetone	3.83	43	202569	1.829	ppbv	89
16) 1,3-Butadiene	3.28	39	20292	0.426	ppbv #	15
20) Methylene Chloride	4.31	84	32938	0.422	ppbv	96
25) Ethyl Acetate	5.65	43	7049	0.032	ppbv #	78
26) Hexane	5.65	57	13246	0.110	ppbv #	42
34) 2-Butanone	5.23	43	9782	0.065	ppbv #	87
39) 1,2-Dichloropropane	7.14	63	846400	7.238	ppbv #	30
53) Toluene	9.76	91	21388	0.051	ppbv #	19
58) Ethyl Benzene	12.68	91	26854	0.052	ppbv #	76
59) m/p-Xylene	12.96	91	14443	0.033	ppbv #	28
60) o-Xylene	13.65	91	27470	0.064	ppbv	99
66) Benzyl Chloride	16.63	91	31090	0.154	ppbv #	62
67) sec-Butylbenzene	17.46	105	81442	0.099	ppbv	94
70) n-Butylbenzene	18.52	91	41508	0.063	ppbv	97
71) 2-Chlorotoluene	15.29	91	7792101	15.828	ppbv #	39
74) 1,2,4-Trimethylbenzene	16.73	105	26225	0.051	ppbv #	65

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

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QLast Update : Wed Nov 04 02:40:06 2020
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.64 min Scan# 886

Delta R.T. -0.03 min

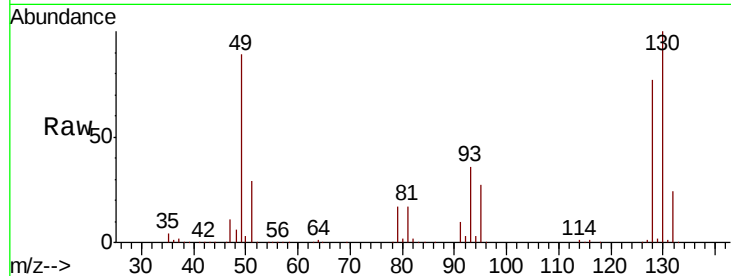
Lab File: VL035841.D

Acq: 4 Nov 2020 20:06

Instrument :
MSVOA_L
ClientSampleId :

Tot Ion: 49 Resp: 1035969

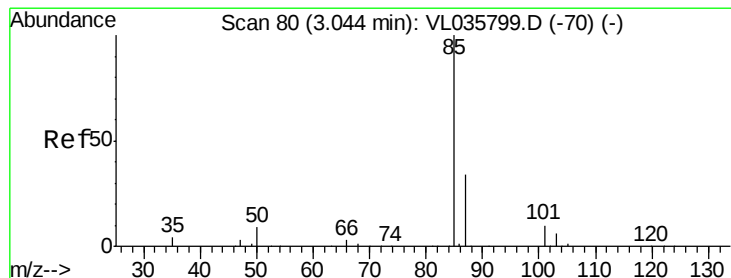
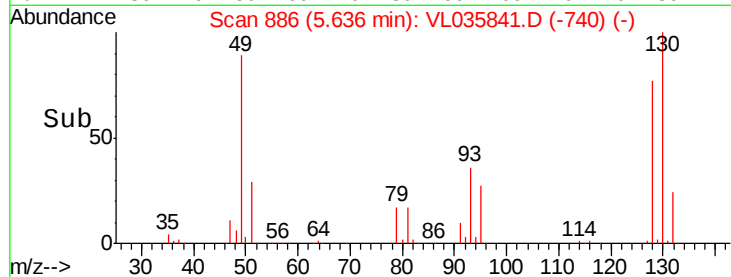
Ion	Ratio	Lower	Upper
49	100		
128	90.5	41.5	124.6
130	116.6	53.7	161.1



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



#2

Dichlorodifluoromethane

Concen: 0.050 ppbv

RT: 3.02 min Scan# 73

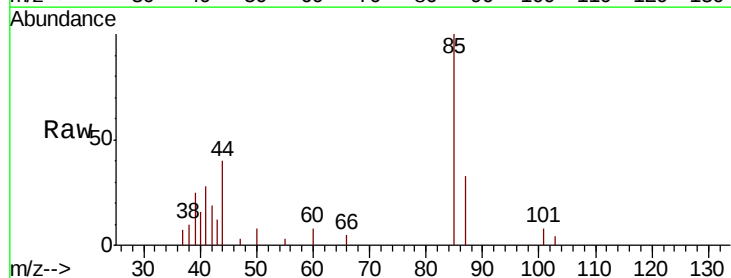
Delta R.T. -0.02 min

Lab File: VL035841.D

Acq: 4 Nov 2020 20:06

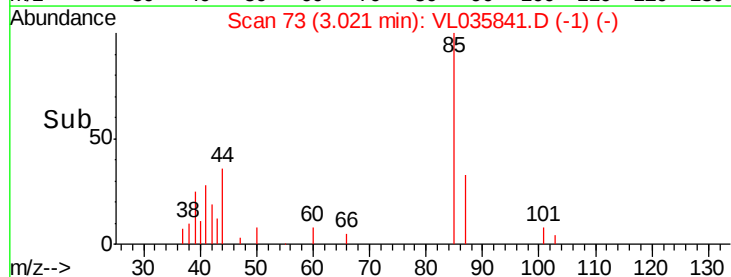
Tgt Ion: 85 Resp: 9825

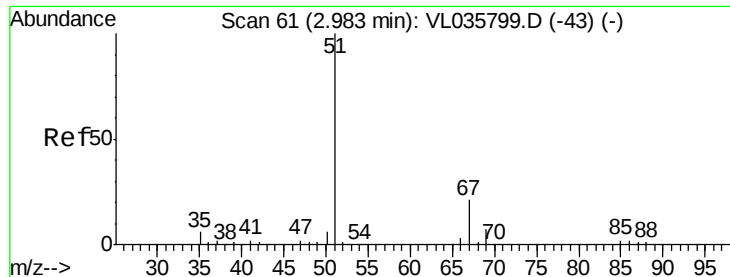
Ion	Ratio	Lower	Upper
85	100		
87	32.9	27.1	40.7



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.037 ppbv

RT: 2.96 min Scan# 54

Delta R.T. -0.02 min

Lab File: VL035841.D

Acq: 4 Nov 2020 20:06

Instrument :

MSVOA_L

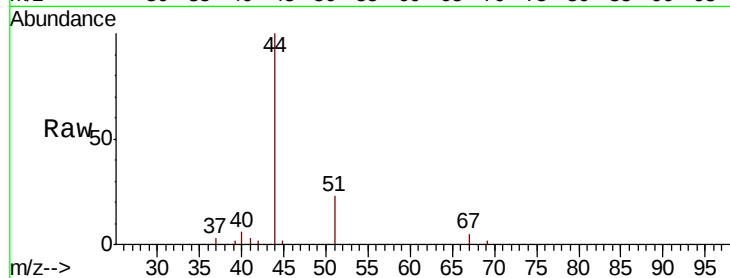
ClientSampleId :

Tot Ion: 51 Resp: 4648

Ion Ratio Lower Upper

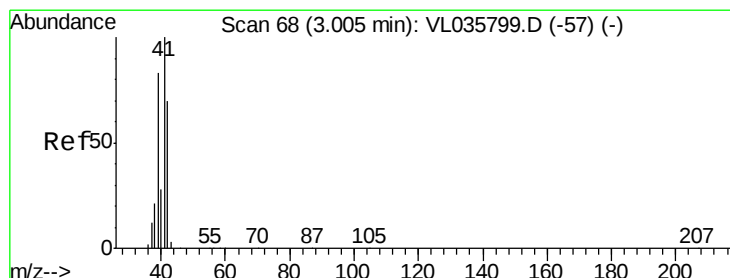
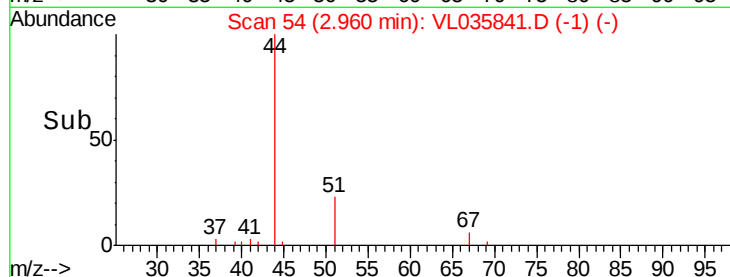
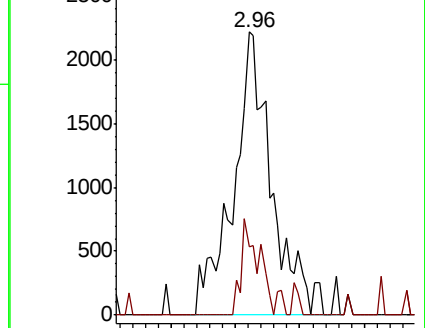
51 100

67 18.5 17.0 25.4



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#9

Propene

Concen: 0.590 ppbv

RT: 2.99 min Scan# 62

Delta R.T. -0.02 min

Lab File: VL035841.D

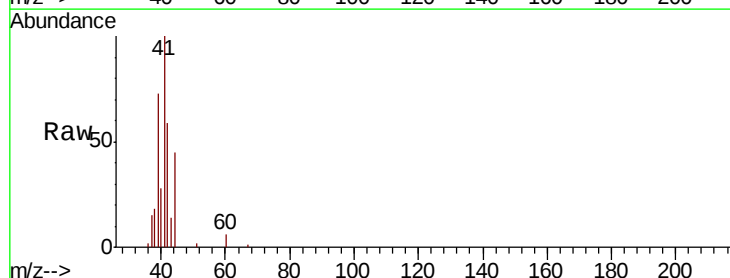
Acq: 4 Nov 2020 20:06

Tgt Ion: 41 Resp: 26799

Ion Ratio Lower Upper

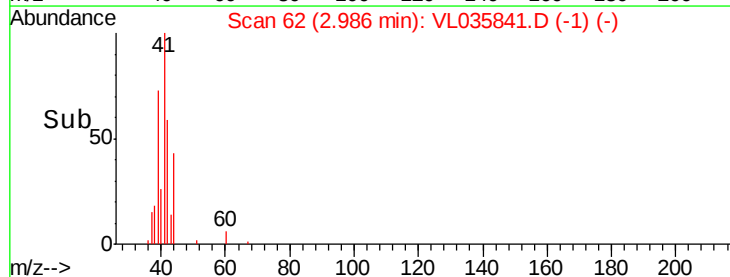
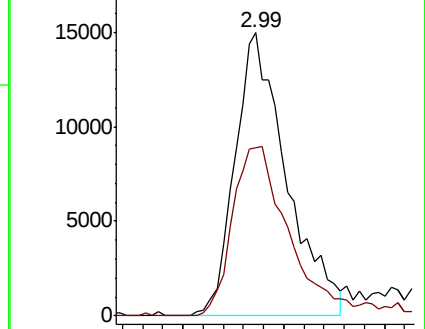
41 100

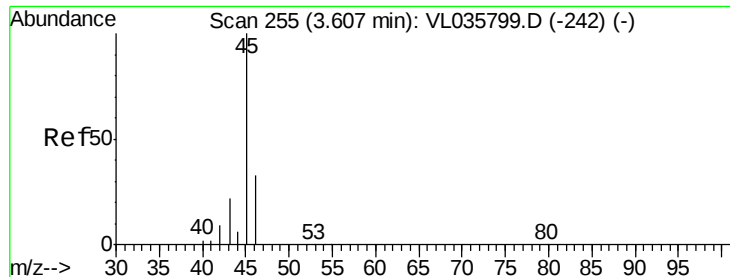
42 68.7 56.2 84.4



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0





#13

Ethanol

Concen: 0.301 ppbv

RT: 3.59 min Scan# 250

Delta R.T. -0.02 min

Lab File: VL035841.D

Acq: 4 Nov 2020 20:06

Instrument :

MSVOA_L

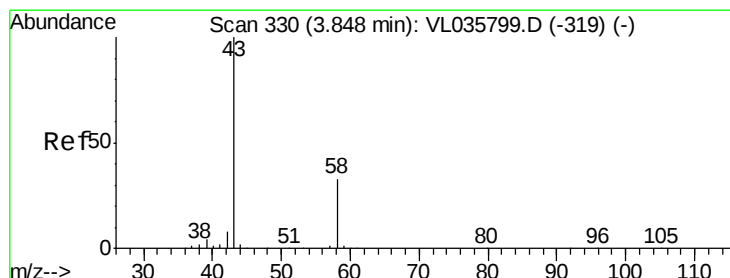
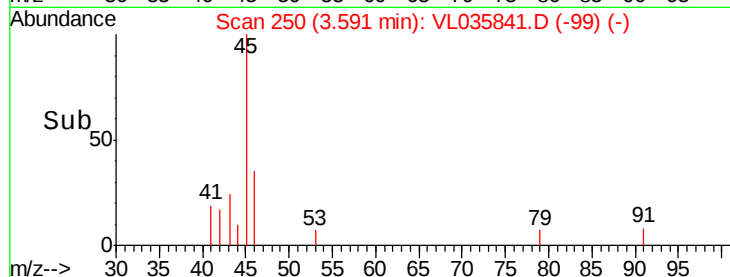
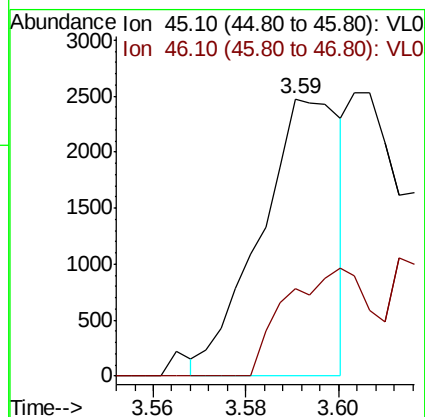
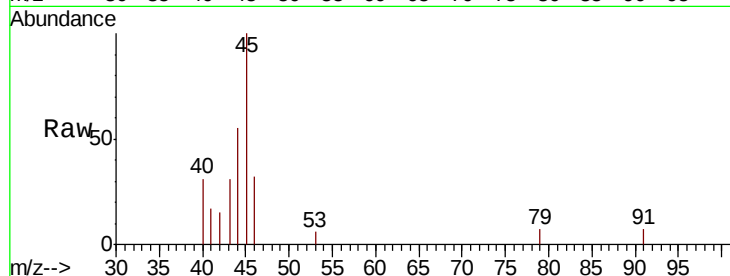
ClientSampled :

Tot Ion: 45 Resp: 2967

Ion Ratio Lower Upper

45 100

46 0.0 16.1 64.5#



#15

Acetone

Concen: 1.829 ppbv

RT: 3.83 min Scan# 325

Delta R.T. -0.02 min

Lab File: VL035841.D

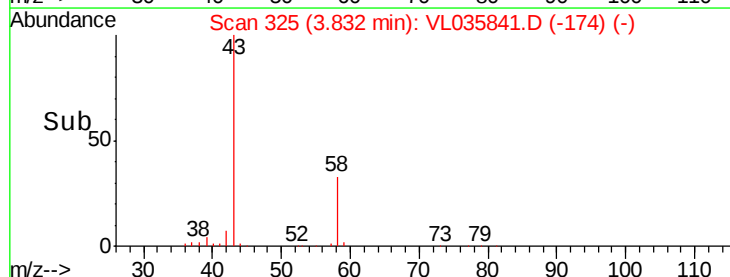
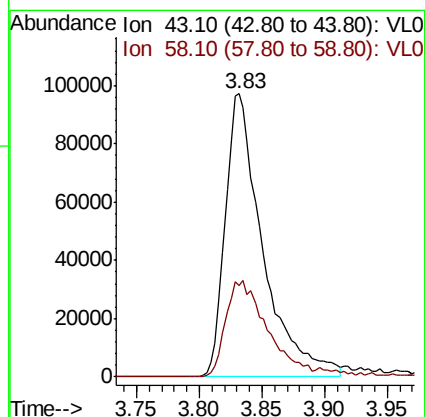
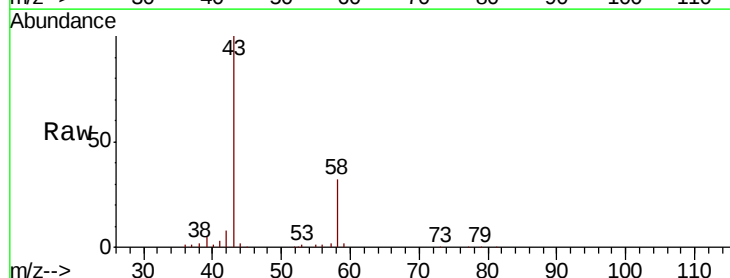
Acq: 4 Nov 2020 20:06

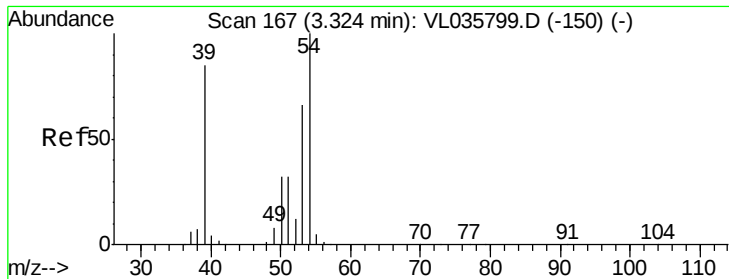
Tgt Ion: 43 Resp: 202569

Ion Ratio Lower Upper

43 100

58 40.8 27.5 41.3





#16

1,3-Butadiene

Concen: 0.426 ppbv

RT: 3.28 min Scan# 154

Delta R.T. -0.04 min

Lab File: VL035841.D

Acq: 4 Nov 2020 20:06

Instrument :

MSVOA_L

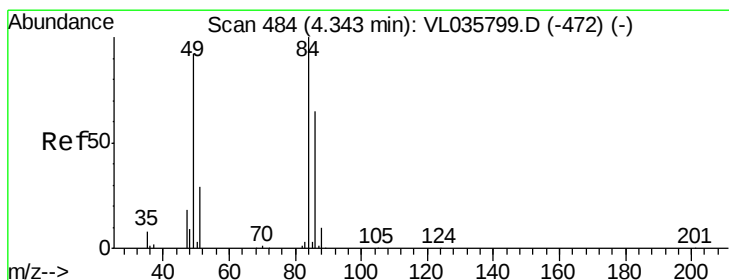
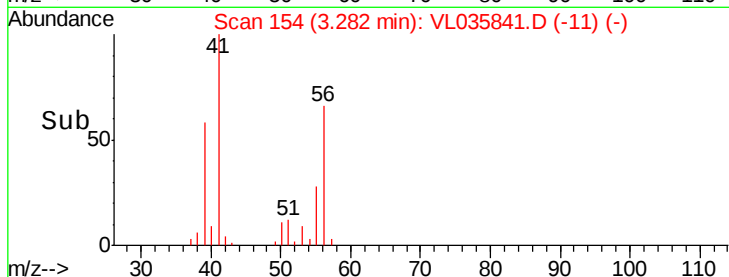
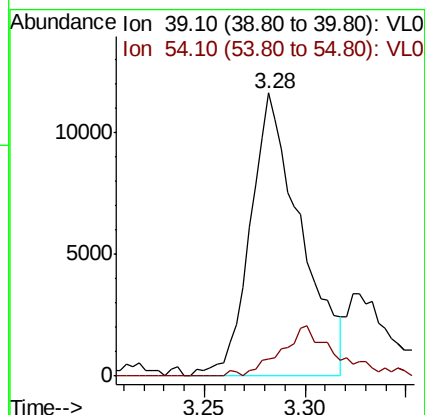
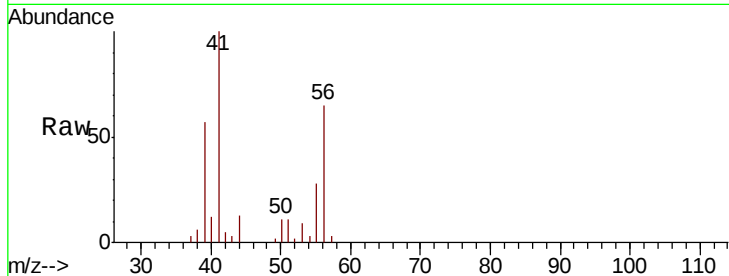
ClientSampleId :

Tot Ion: 39 Resp: 20292

Ion Ratio Lower Upper

39 100

54 19.8 87.1 130.7#



#20

Methylene Chloride

Concen: 0.422 ppbv

RT: 4.31 min Scan# 475

Delta R.T. -0.03 min

Lab File: VL035841.D

Acq: 4 Nov 2020 20:06

Tgt Ion: 84 Resp: 32938

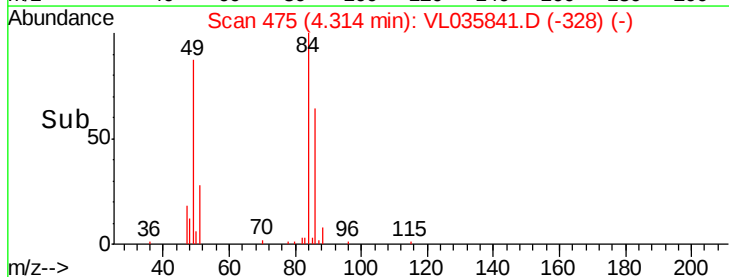
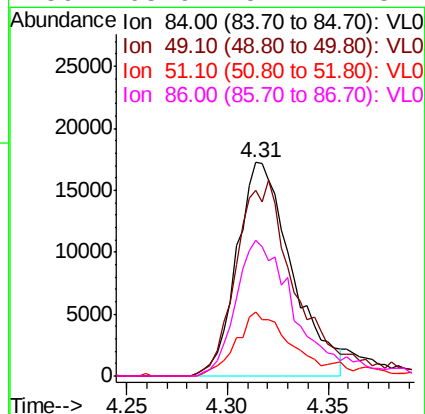
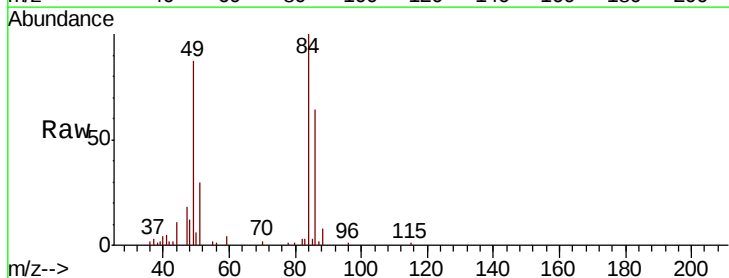
Ion Ratio Lower Upper

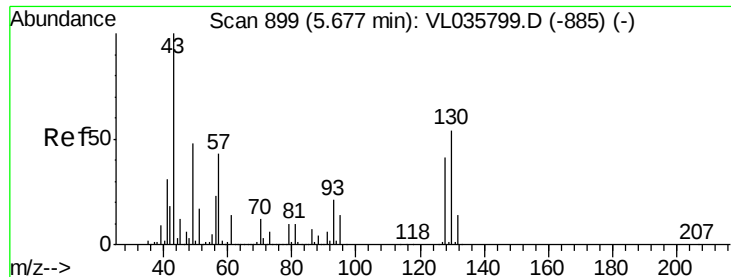
84 100

49 86.9 73.8 110.8

51 29.8 23.0 34.4

86 63.6 52.1 78.1

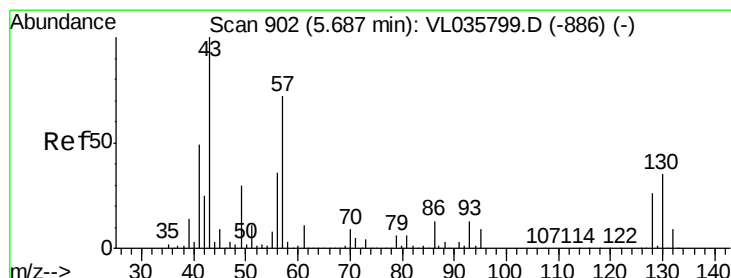
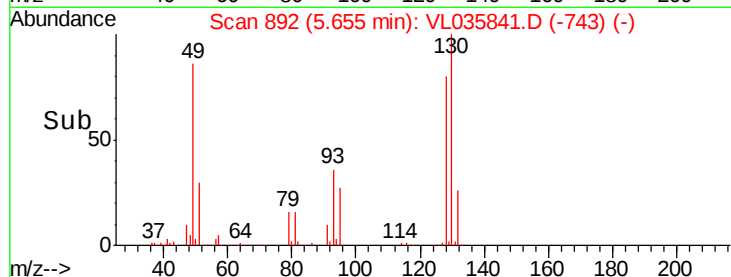
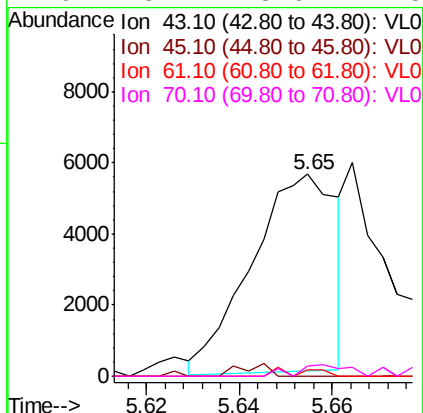
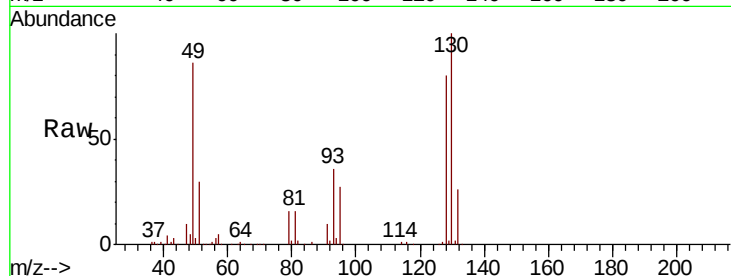




#25
Ethyl Acetate
Concen: 0.032 ppbv
RT: 5.65 min Scan# 892
Delta R.T. -0.02 min
Lab File: VL035841.D
Acq: 4 Nov 2020 20:06

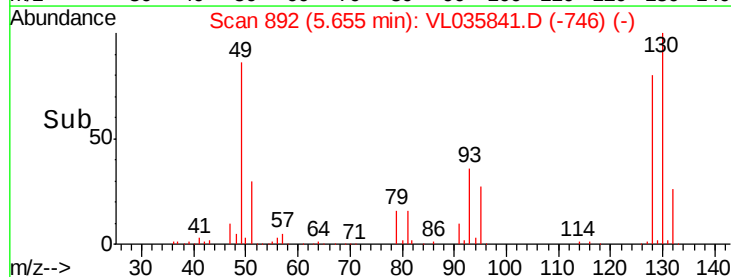
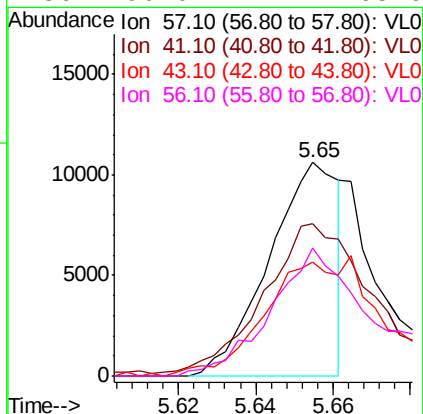
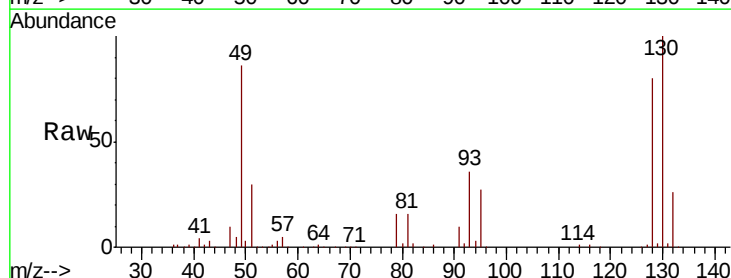
Instrument :
MSVOA_L
ClientSampleId :

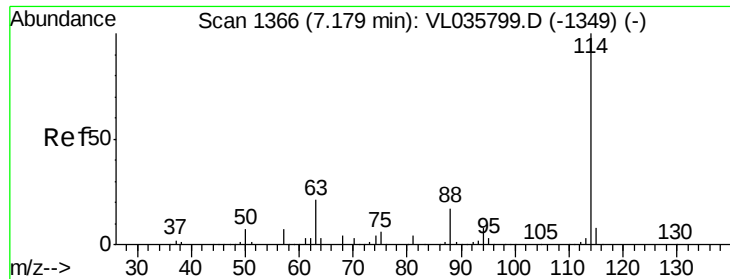
Tot Ion:	43	Resp:	7049
Ion	Ratio	Lower	Upper
43	100		
45	2.6	8.5	12.7#
61	1.7	10.7	16.1#
70	5.7	8.6	12.8#



#26
Hexane
Concen: 0.110 ppbv
RT: 5.65 min Scan# 892
Delta R.T. -0.03 min
Lab File: VL035841.D
Acq: 4 Nov 2020 20:06

Tgt Ion:	57	Resp:	13246
Ion	Ratio	Lower	Upper
57	100		
41	124.2	58.9	88.3#
43	101.3	150.2	225.2#
56	90.0	42.4	63.6#

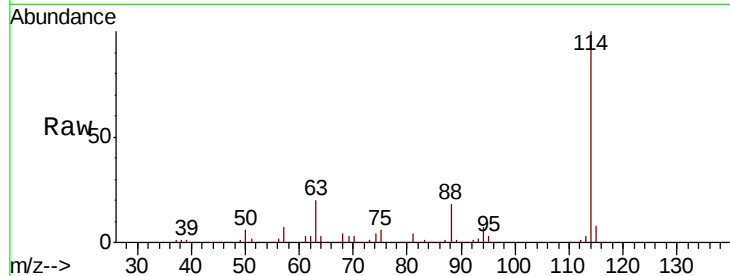




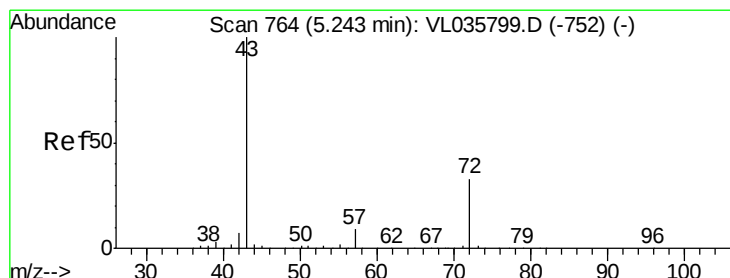
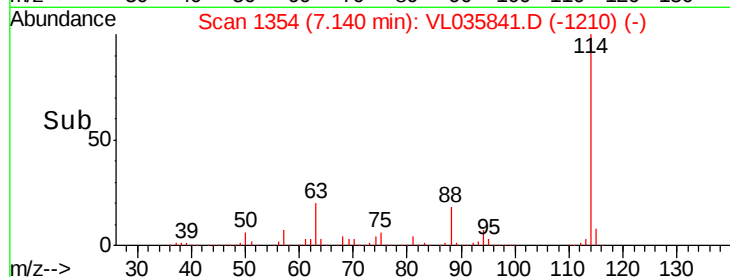
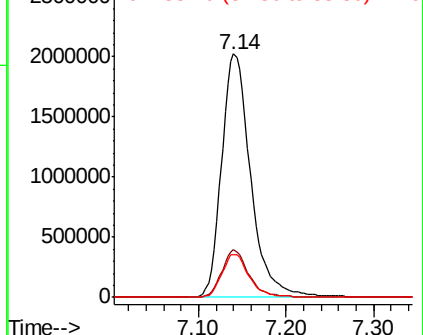
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.14 min Scan# 1354
 Delta R.T. -0.04 min
 Lab File: VL035841.D
 Acq: 4 Nov 2020 20:06

Instrument :
 MSVOA_L
 ClientSampleID :

Tot Ion:114 Resp: 4671901
 Ion Ratio Lower Upper
 114 100
 63 18.3 16.1 24.1
 88 16.9 13.7 20.5

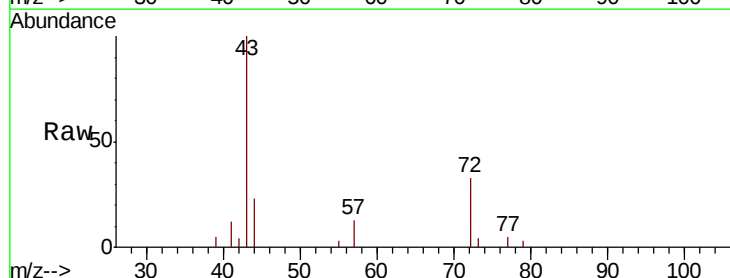


Abundance Ion 114.10 (113.80 to 114.80): VL0
 Ion 63.10 (62.80 to 63.80): VL0
 Ion 88.10 (87.80 to 88.80): VL0

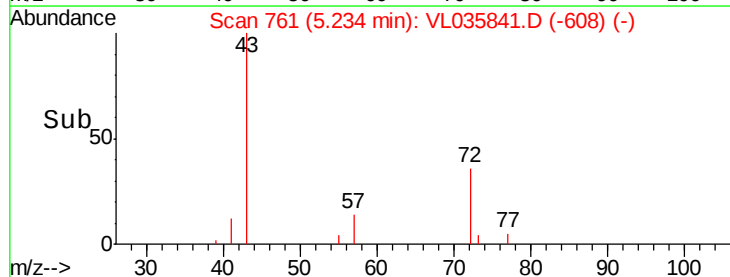
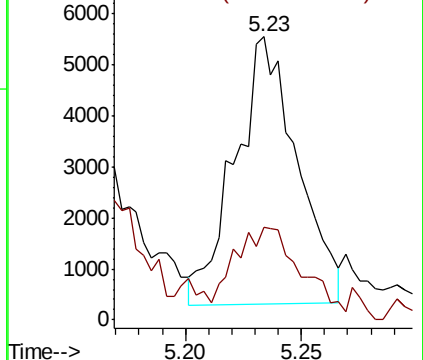


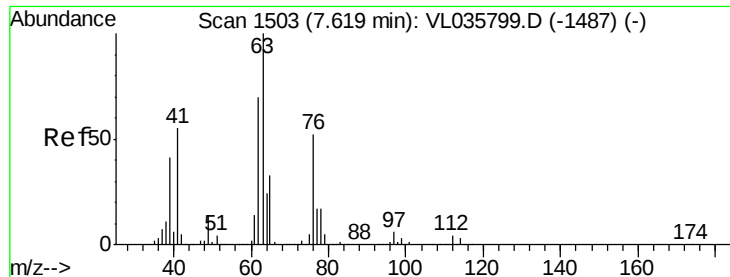
#34
 2-Butanone
 Concen: 0.065 ppbv
 RT: 5.23 min Scan# 761
 Delta R.T. -0.01 min
 Lab File: VL035841.D
 Acq: 4 Nov 2020 20:06

Tgt Ion: 43 Resp: 9782
 Ion Ratio Lower Upper
 43 100
 72 40.5 26.5 39.7#



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

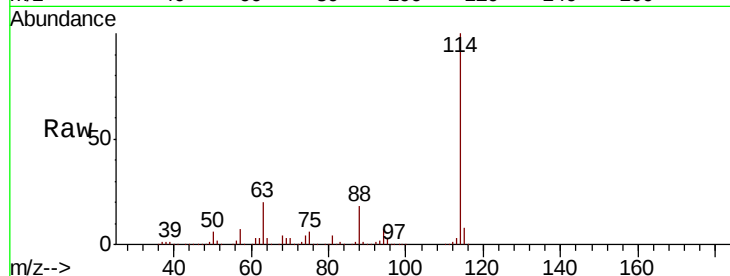




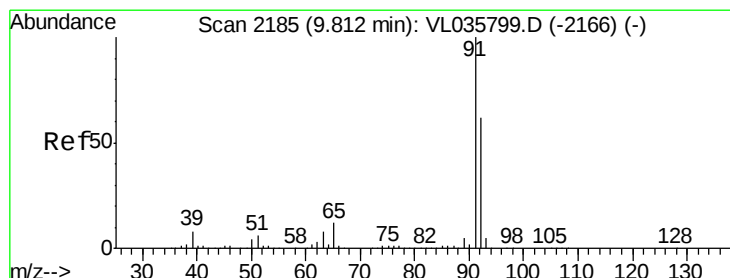
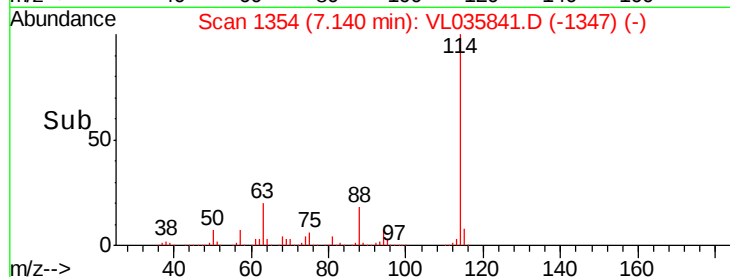
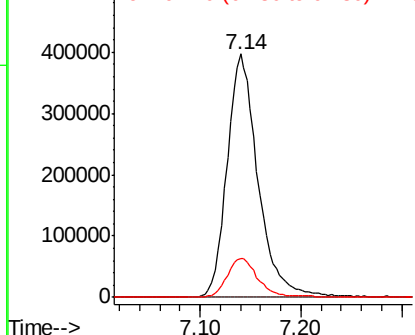
#39
 1,2-Dichloropropane
 Concen: 7.238 ppbv
 RT: 7.14 min Scan# 1354
 Delta R.T. -0.48 min
 Lab File: VL035841.D
 Acq: 4 Nov 2020 20:06

Instrument :
 MSVOA_L
 ClientSampled :

Tot Ion: 63 Resp: 846400
 Ion Ratio Lower Upper
 63 100
 41 0.0 43.8 65.6#
 62 16.1 56.2 84.2#

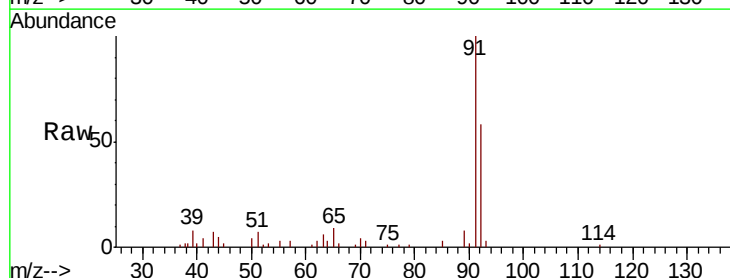


Abundance Ion 63.10 (62.80 to 63.80): VL0
 Ion 41.10 (40.80 to 41.80): VL0
 Ion 62.10 (61.80 to 62.80): VL0

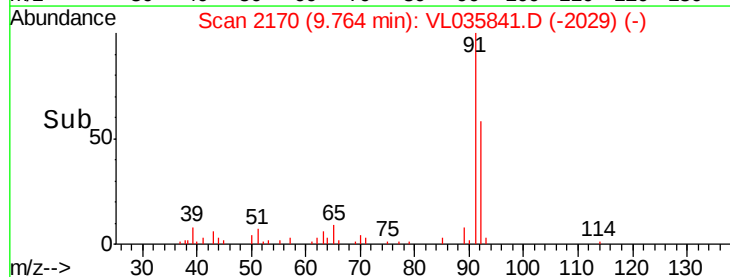
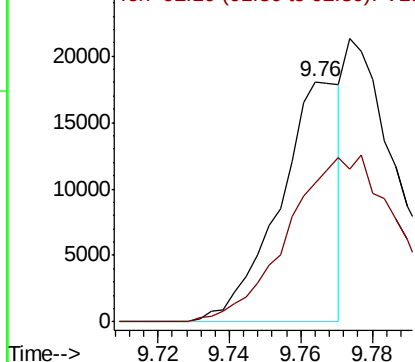


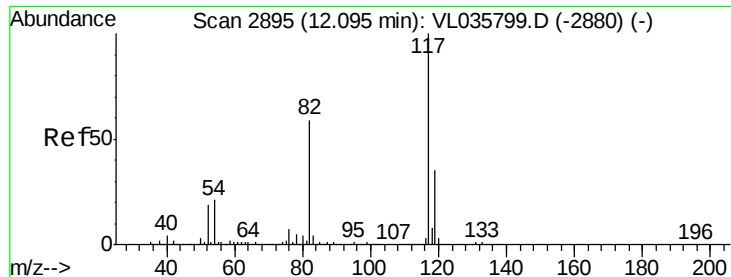
#53
 Toluene
 Concen: 0.051 ppbv
 RT: 9.76 min Scan# 2170
 Delta R.T. -0.05 min
 Lab File: VL035841.D
 Acq: 4 Nov 2020 20:06

Tgt Ion: 91 Resp: 21388
 Ion Ratio Lower Upper
 91 100
 92 0.0 49.8 74.6#



Abundance Ion 91.10 (90.80 to 91.80): VL0
 Ion 92.10 (91.80 to 92.80): VL0

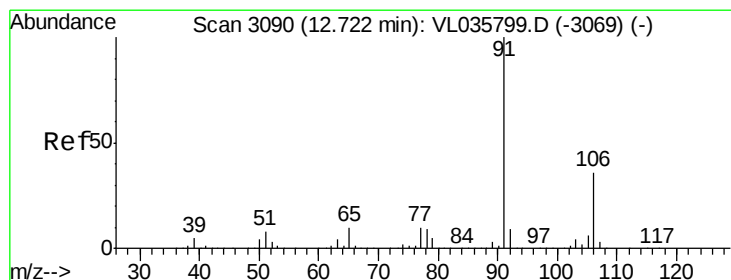
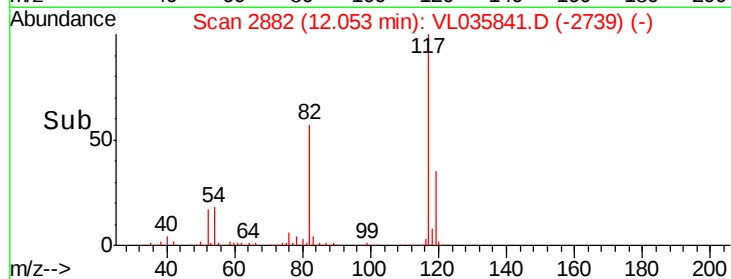
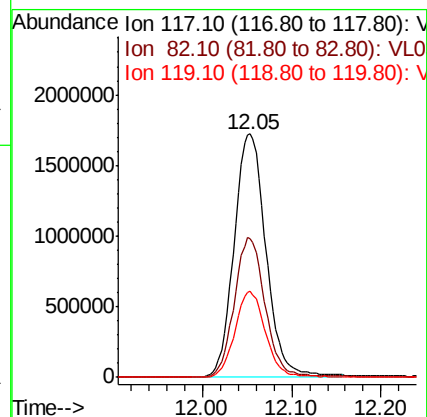
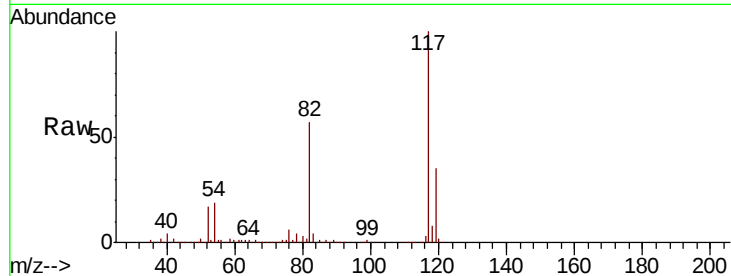




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.05 min Scan# 2882
Delta R.T. -0.04 min
Lab File: VL035841.D
Acq: 4 Nov 2020 20:06

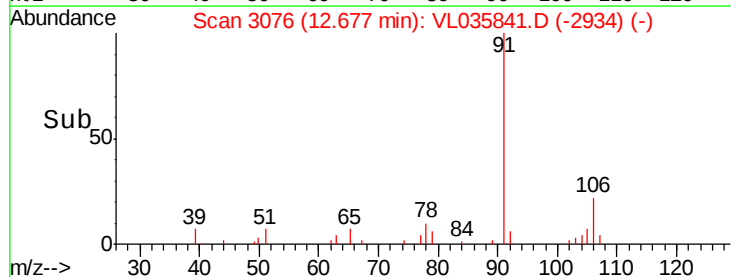
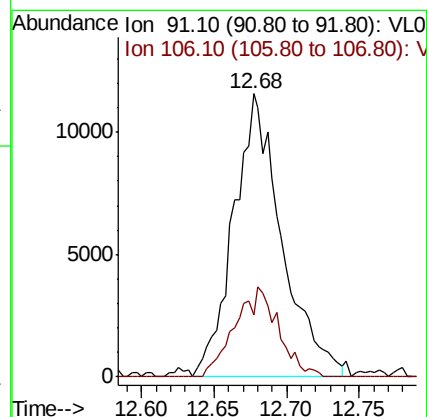
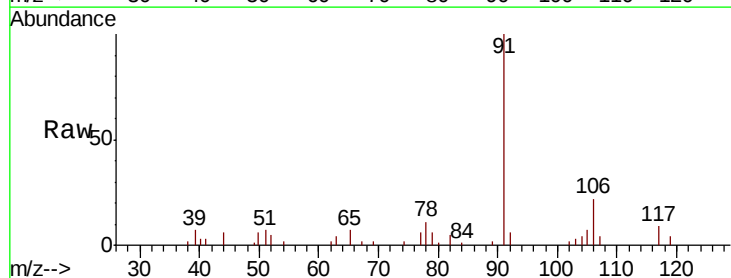
Instrument :
MSVOA_L
ClientSampleId :

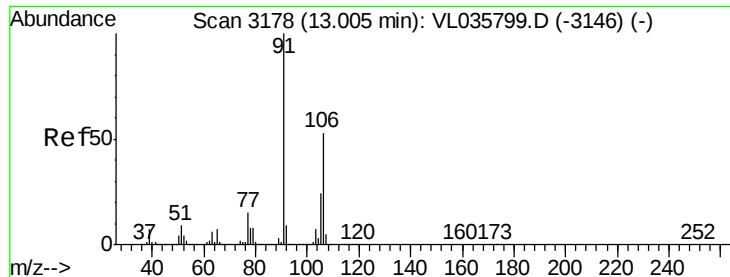
Tot Ion:117 Resp: 4272015
Ion Ratio Lower Upper
117 100
82 56.2 50.6 76.0
119 34.0 52.6 78.8#



#58
Ethyl Benzene
Concen: 0.052 ppbv
RT: 12.68 min Scan# 3076
Delta R.T. -0.04 min
Lab File: VL035841.D
Acq: 4 Nov 2020 20:06

Tgt Ion: 91 Resp: 26854
Ion Ratio Lower Upper
91 100
106 22.0 28.6 43.0#

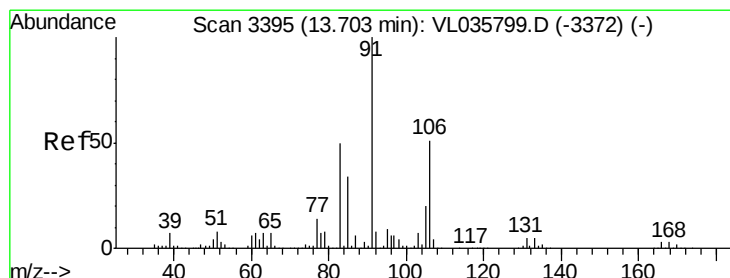
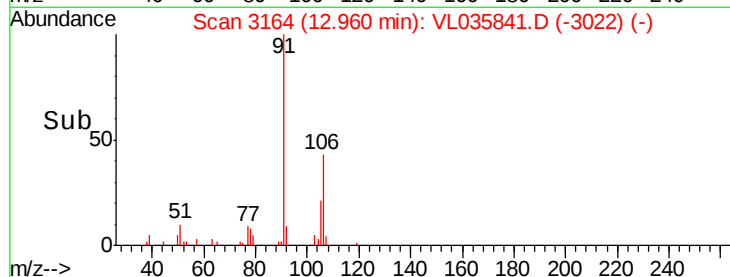
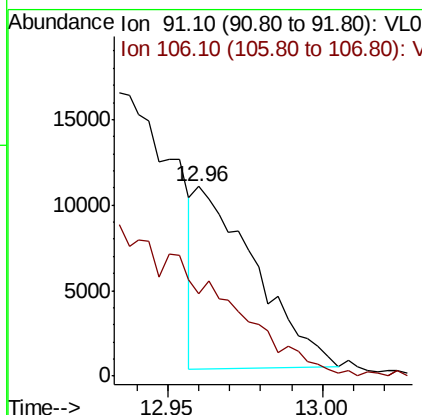
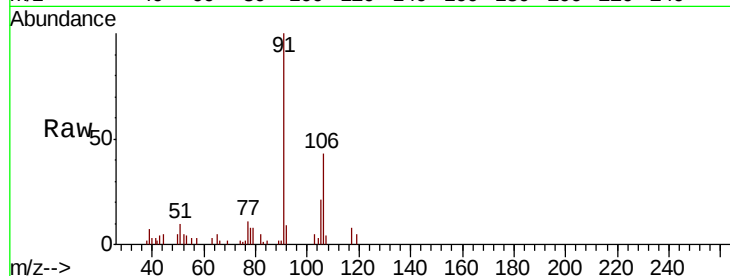




#59
m/p-Xylene
Concen: 0.033 ppbv
RT: 12.96 min Scan# 3164
Delta R.T. -0.04 min
Lab File: VL035841.D
Acq: 4 Nov 2020 20:06

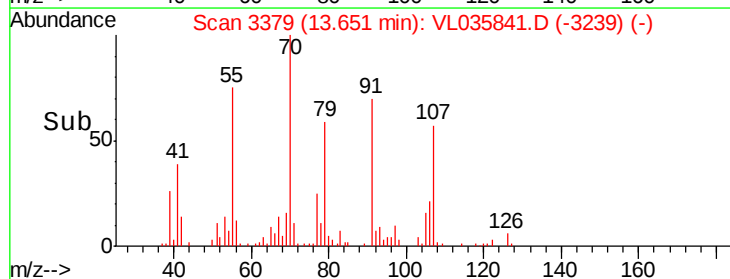
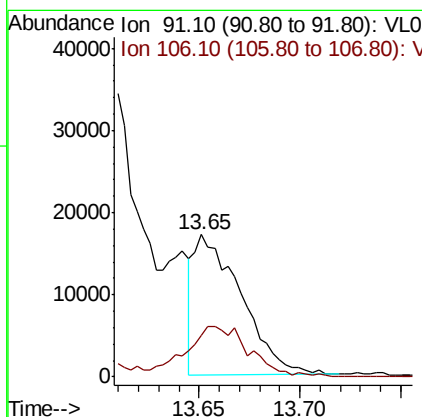
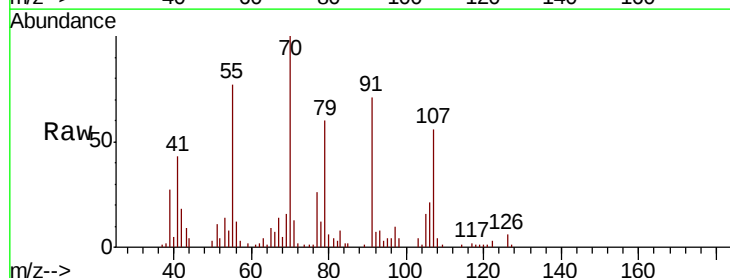
Instrument :
MSVOA_L
ClientSampleId :

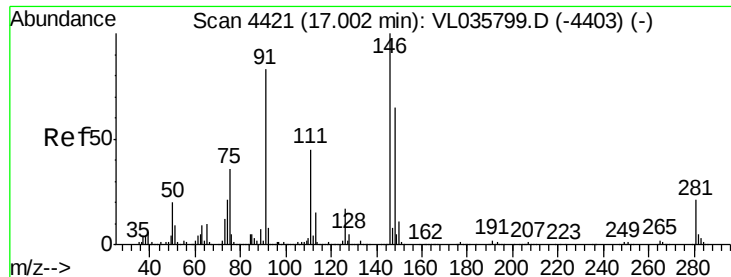
Tot Ion: 91 Resp: 14443
Ion Ratio Lower Upper
91 100
106 0.0 39.5 59.3#



#60
o-Xylene
Concen: 0.064 ppbv
RT: 13.65 min Scan# 3379
Delta R.T. -0.05 min
Lab File: VL035841.D
Acq: 4 Nov 2020 20:06

Tgt Ion: 91 Resp: 27470
Ion Ratio Lower Upper
91 100
106 50.4 24.8 74.4





#66

Benzyl Chloride

Concen: 0.154 ppbv

RT: 16.63 min Scan# 4306

Delta R.T. -0.37 min

Lab File: VL035841.D

Acq: 4 Nov 2020 20:06

Instrument :

MSVOA_L

ClientSampled :

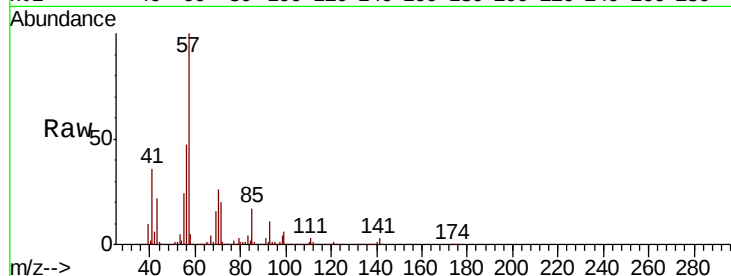
Tot Ion: 91 Resp: 31090

Ion Ratio Lower Upper

91 100

126 0.0 16.0 24.0#

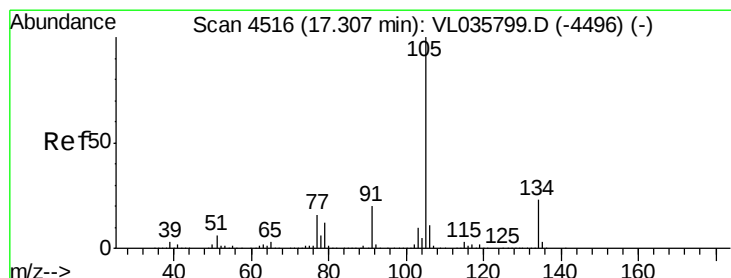
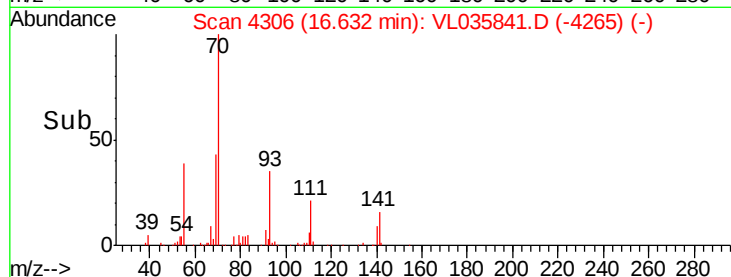
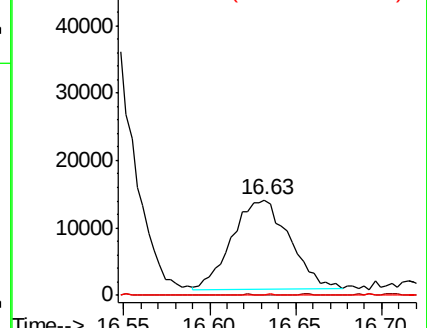
128 0.0 5.0 7.4#



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 126.10 (125.80 to 126.80): V

Ion 128.10 (127.80 to 128.80): V



#67

sec-Butylbenzene

Concen: 0.099 ppbv

RT: 17.46 min Scan# 4565

Delta R.T. 0.16 min

Lab File: VL035841.D

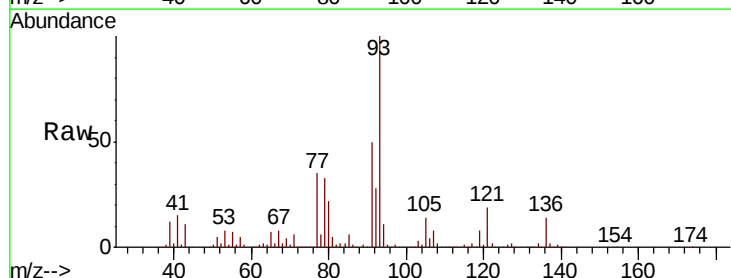
Acq: 4 Nov 2020 20:06

Tgt Ion: 105 Resp: 81442

Ion Ratio Lower Upper

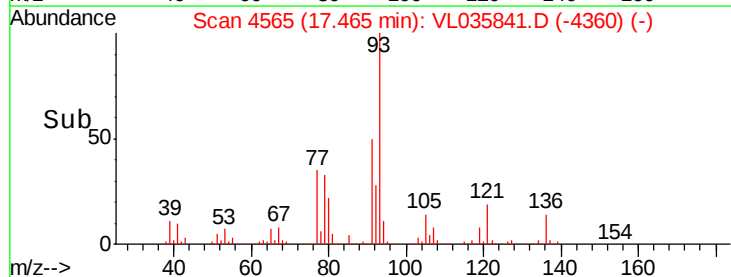
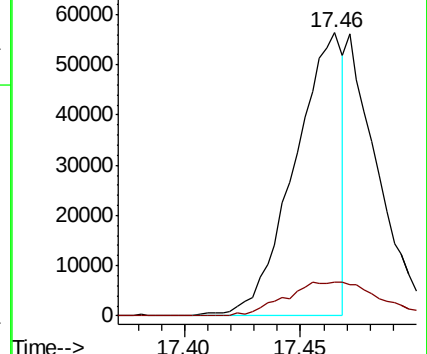
105 100

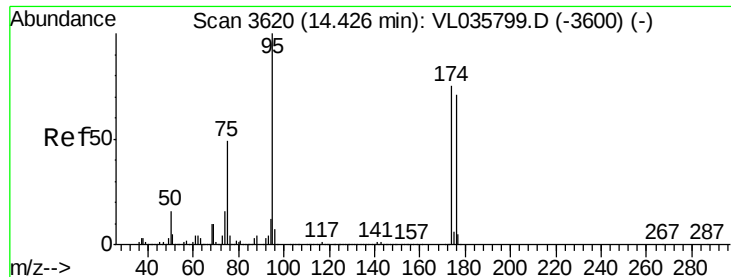
134 24.0 17.0 25.6



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 134.20 (133.90 to 134.90): V

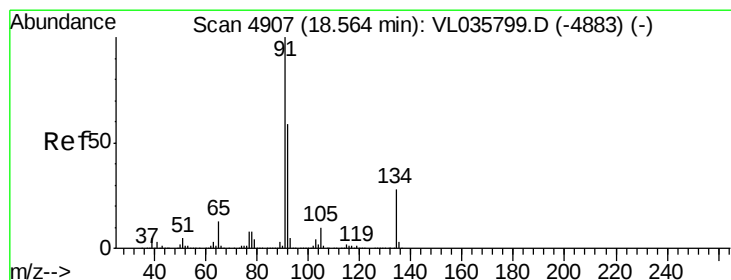
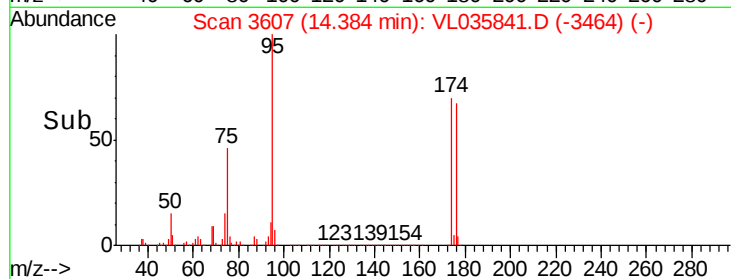
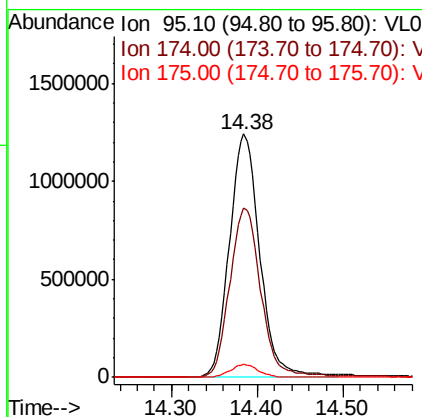
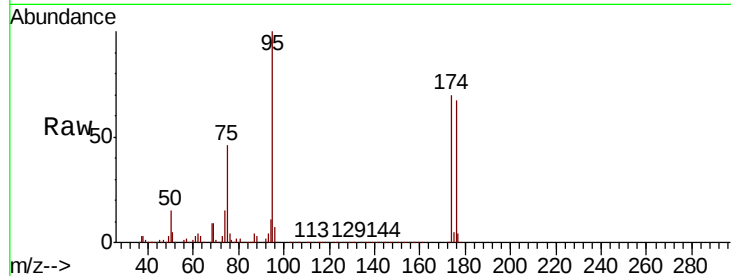




#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.018 ppbv
 RT: 14.38 min Scan# 3607
 Delta R.T. -0.04 min
 Lab File: VL035841.D
 Acq: 4 Nov 2020 20:06

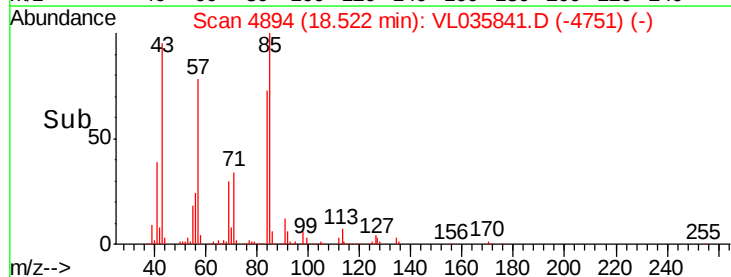
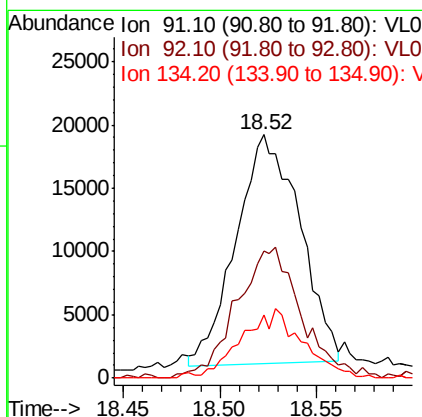
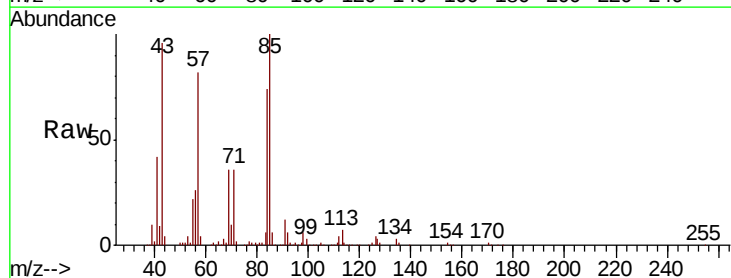
Instrument :
 MSVOA_L
 ClientSampleId :

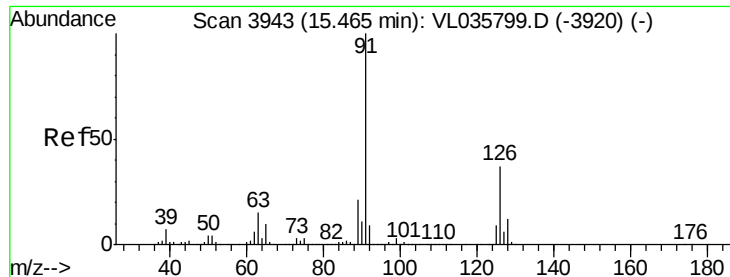
Tot Ion: 95 Resp: 3040571
 Ion Ratio Lower Upper
 95 100
 174 72.8 59.8 89.6
 175 5.1 4.3 6.5



#70
 n-Butylbenzene
 Concen: 0.063 ppbv
 RT: 18.52 min Scan# 4894
 Delta R.T. -0.04 min
 Lab File: VL035841.D
 Acq: 4 Nov 2020 20:06

Tgt Ion: 91 Resp: 41508
 Ion Ratio Lower Upper
 91 100
 92 58.6 45.7 68.5
 134 29.2 21.0 31.4

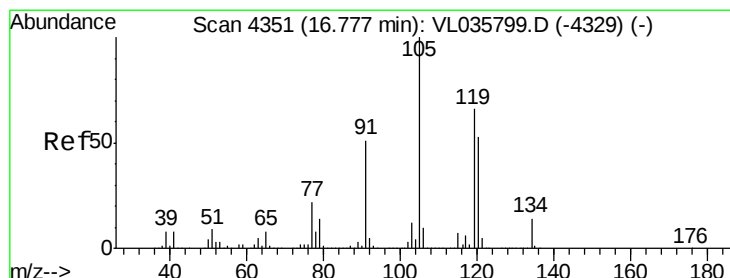
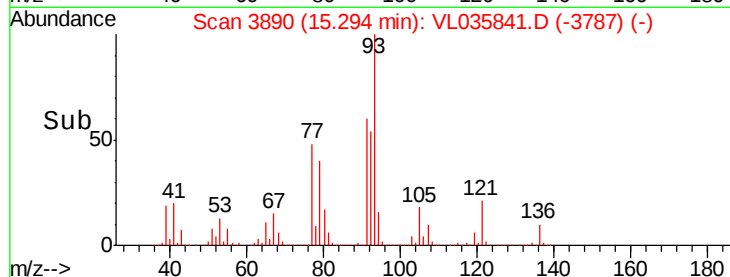
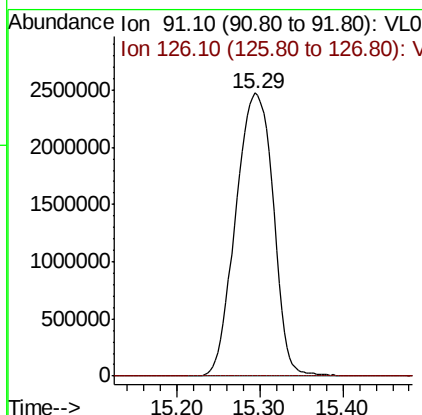
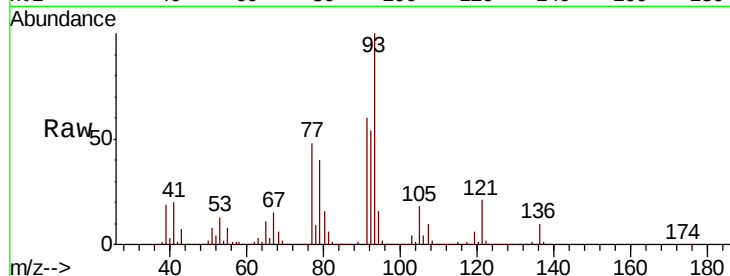




#71
 2-Chlorotoluene
 Concen: 15.828 ppbv
 RT: 15.29 min Scan# 3890
 Delta R.T. -0.17 min
 Lab File: VL035841.D
 Acq: 4 Nov 2020 20:06

Instrument :
 MSVOA_L
 ClientSampled :

Tot Ion: 91 Resp: 7792101
 Ion Ratio Lower Upper
 91 100
 126 0.0 14.3 57.1#



#74
 1,2,4-Trimethylbenzene
 Concen: 0.051 ppbv
 RT: 16.73 min Scan# 4337
 Delta R.T. -0.05 min
 Lab File: VL035841.D
 Acq: 4 Nov 2020 20:06

Tgt Ion: 105 Resp: 26225
 Ion Ratio Lower Upper
 105 100
 120 42.9 42.0 63.0
 91 6.8 41.0 61.6#
 77 12.4 17.3 25.9#

