

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL100820\
 Data File : VL035749.D
 Acq On : 8 Oct 2020 17:34
 Operator : SY/AP
 Sample : L4312-01DL 10X
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Oct 09 01:18:37 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL092320AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Sep 23 07:38:05 2020
 QLast Update : Wed Sep 23 07:38:05 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.67	49	1248505	10.00	ppbv	-0.01
33) 1,4-Difluorobenzene	7.18	114	4758118	10.00	ppbv	-0.01
55) Chlorobenzene-d5	12.10	117	4666639	10.00	ppbv	-0.02

System Monitoring Compounds		R.T.	QIon	Response	Conc	Units	Dev(Min)
68) 1-Bromo-4-Fluorobenzene	14.43	95	3464655	9.91	ppbv	-0.02	
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.10%	

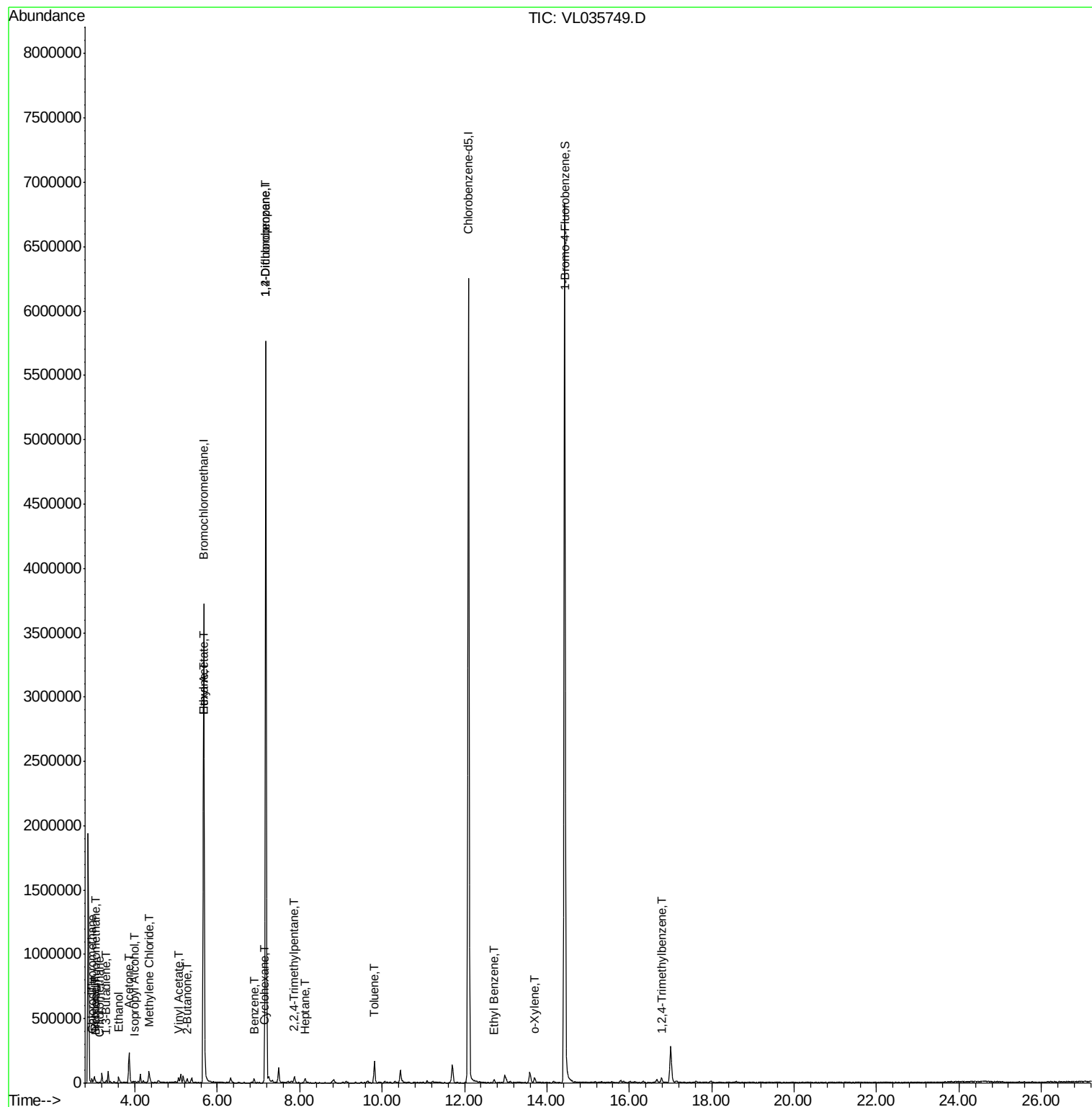
Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.04	85	14411	0.070	ppbv #	85
3) Chlorodifluoromethane	2.96	51	24691	0.184	ppbv #	65
4) Chloromethane	3.14	50	4282	0.059	ppbv	90
9) Propene	3.01	41	16202	0.332	ppbv	85
10) Heptane	8.13	43	7914	0.058	ppbv #	81
13) Ethanol	3.60	45	44282	3.682	ppbv	96
15) Acetone	3.85	43	223643	1.665	ppbv	98
16) 1,3-Butadiene	3.30	39	6720	0.137	ppbv #	30
19) Isopropyl Alcohol	3.98	45	5349	0.073	ppbv #	89
20) Methylene Chloride	4.34	84	38004	0.385	ppbv	97
23) Vinyl Acetate	5.07	43	6225	0.038	ppbv #	59
25) Ethyl Acetate	5.69	43	28490	0.118	ppbv #	84
26) Hexane	5.69	57	33721	0.255	ppbv #	57
30) Cyclohexane	7.13	84	4591	0.035	ppbv #	8
34) 2-Butanone	5.26	43	31739	0.202	ppbv	97
36) Benzene	6.89	78	25590	0.083	ppbv	94
39) 1,2-Dichloropropane	7.18	63	940579	8.370	ppbv #	30
44) 2,2,4-Trimethylpentane	7.87	57	34876	0.078	ppbv #	76
53) Toluene	9.81	91	129504	0.354	ppbv	95
58) Ethyl Benzene	12.73	91	15714	0.034	ppbv #	86
60) o-Xylene	13.70	91	17159	0.041	ppbv #	27
74) 1,2,4-Trimethylbenzene	16.79	105	27551	0.053	ppbv #	66

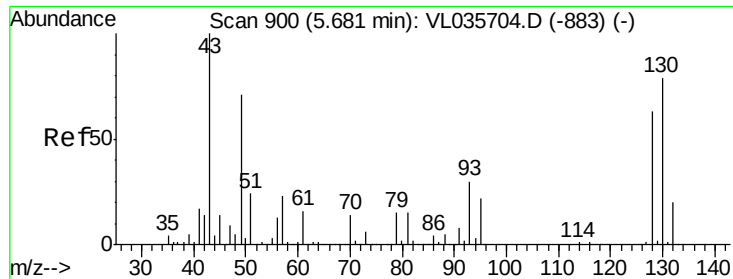
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Wed Sep 23 07:38:05 2020
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.67 min Scan# 896

Delta R.T. -0.01 min

Lab File: VL035749.D

Acq: 8 Oct 2020 17:34

Instrument :

MSVOA_L

ClientSampleId :

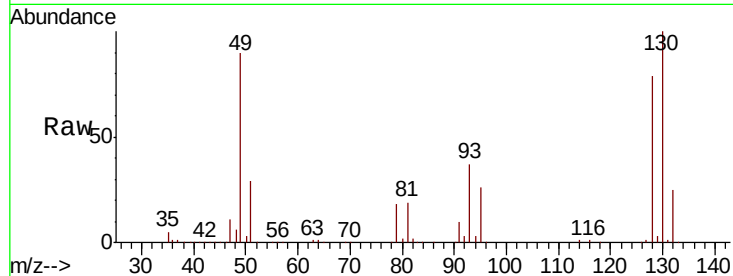
Tot Ion: 49 Resp: 1248505

Ion Ratio Lower Upper

49 100

128 86.6 43.1 129.4

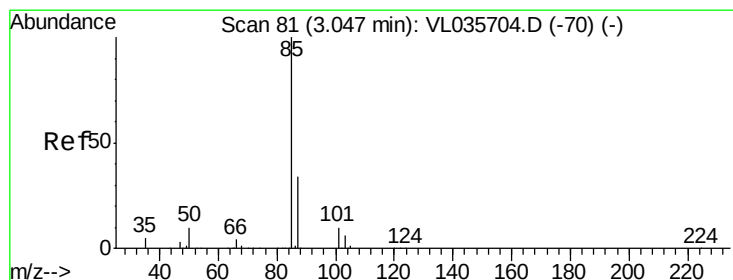
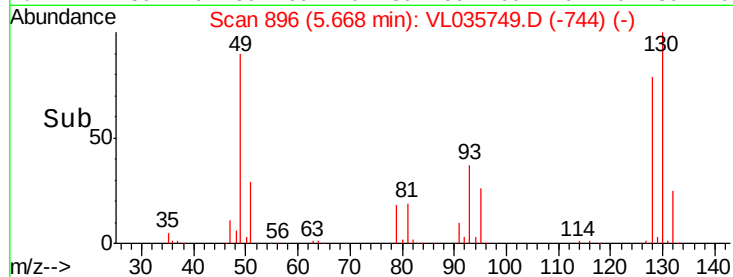
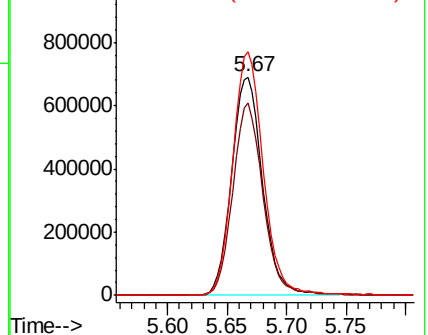
130 110.8 54.9 164.7



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): VL0

Ion 130.00 (129.70 to 130.70): VL0



#2

Dichlorodifluoromethane

Concen: 0.070 ppbv

RT: 3.04 min Scan# 80

Delta R.T. -0.00 min

Lab File: VL035749.D

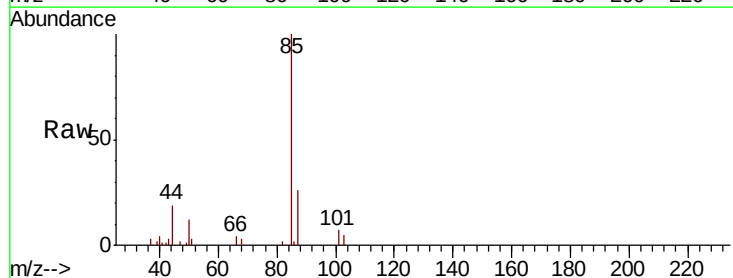
Acq: 8 Oct 2020 17:34

Tgt Ion: 85 Resp: 14411

Ion Ratio Lower Upper

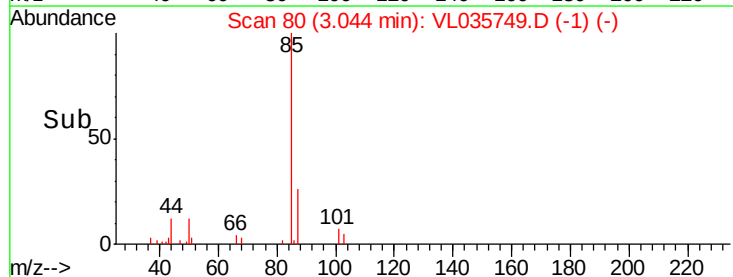
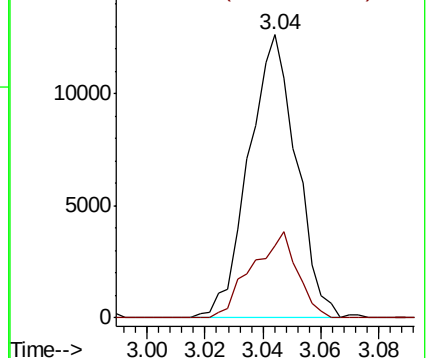
85 100

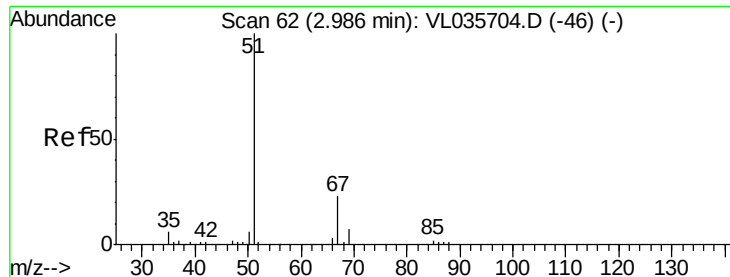
87 25.7 27.3 40.9#



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.184 ppbv

RT: 2.96 min Scan# 54

Delta R.T. -0.03 min

Lab File: VL035749.D

Acq: 8 Oct 2020 17:34

Instrument :

MSVOA_L

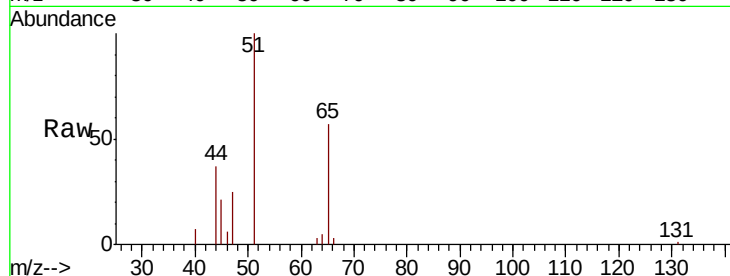
ClientSampleId :

Tot Ion: 51 Resp: 24691

Ion Ratio Lower Upper

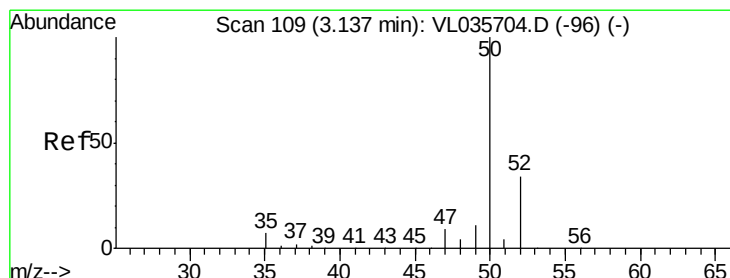
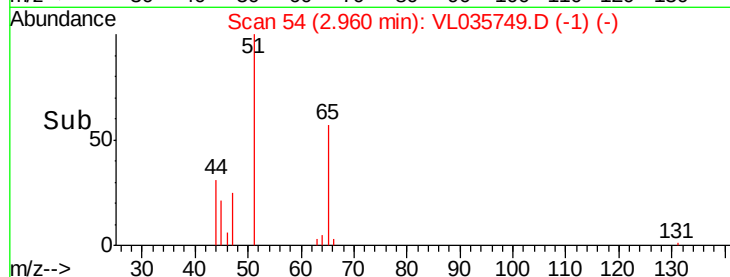
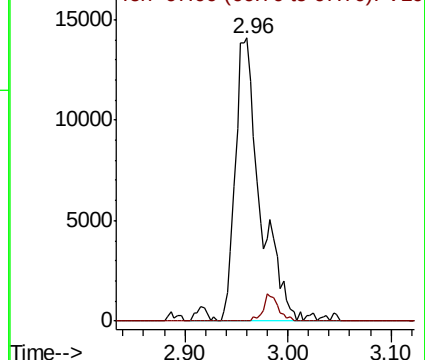
51 100

67 5.5 17.8 26.8#



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 0.059 ppbv

RT: 3.14 min Scan# 109

Delta R.T. 0.00 min

Lab File: VL035749.D

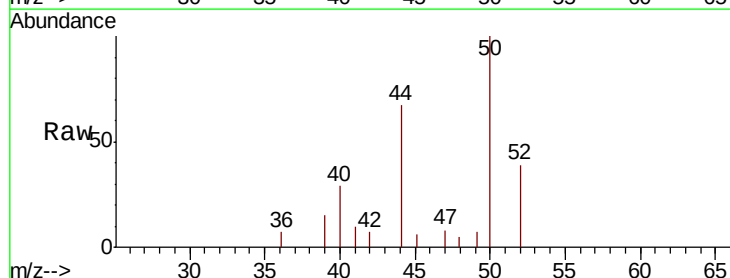
Acq: 8 Oct 2020 17:34

Tgt Ion: 50 Resp: 4282

Ion Ratio Lower Upper

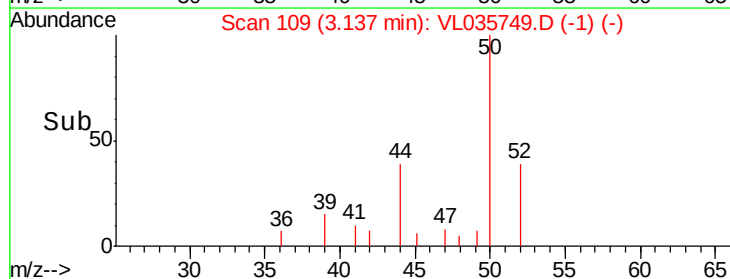
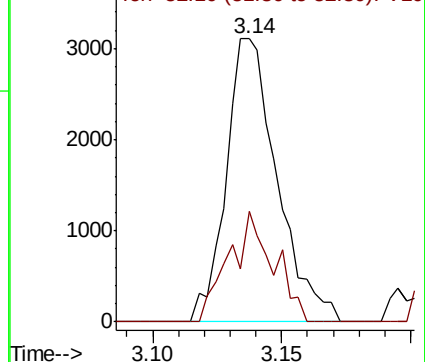
50 100

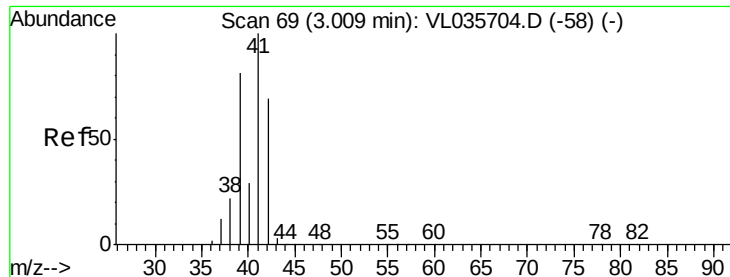
52 39.1 26.8 40.2



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#9

Propene

Concen: 0.332 ppbv

RT: 3.01 min Scan# 69

Delta R.T. 0.00 min

Lab File: VL035749.D

Acq: 8 Oct 2020 17:34

Instrument :

MSVOA_L

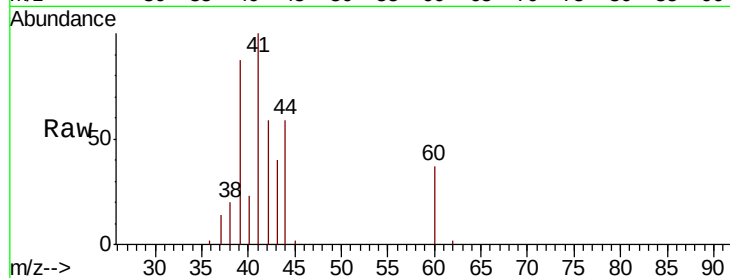
ClientSampleId :

Tot Ion: 41 Resp: 16202

Ion Ratio Lower Upper

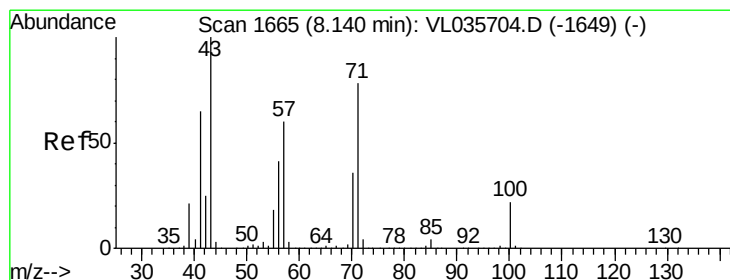
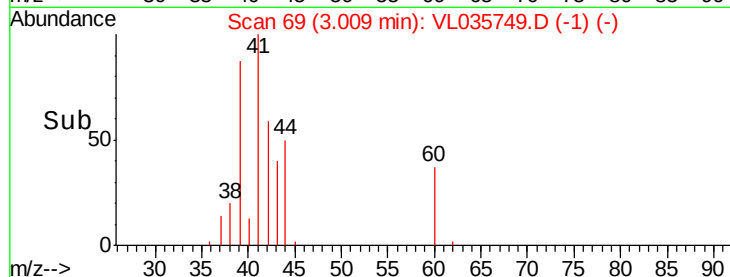
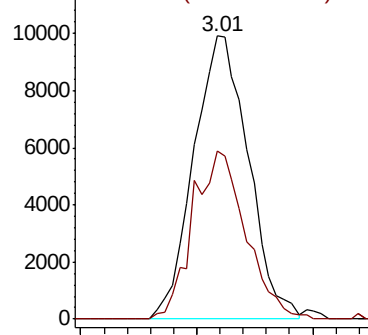
41 100

42 57.7 56.2 84.4



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0



#10

Heptane

Concen: 0.058 ppbv

RT: 8.13 min Scan# 1662

Delta R.T. -0.01 min

Lab File: VL035749.D

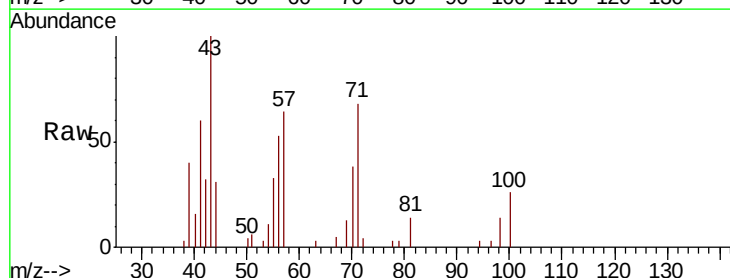
Acq: 8 Oct 2020 17:34

Tgt Ion: 43 Resp: 7914

Ion Ratio Lower Upper

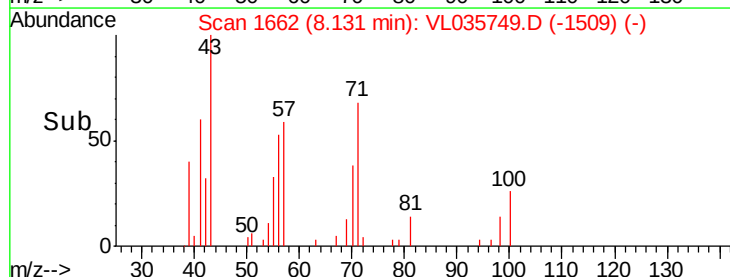
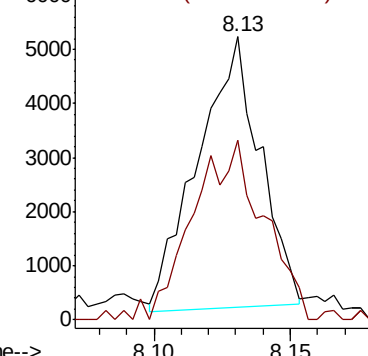
43 100

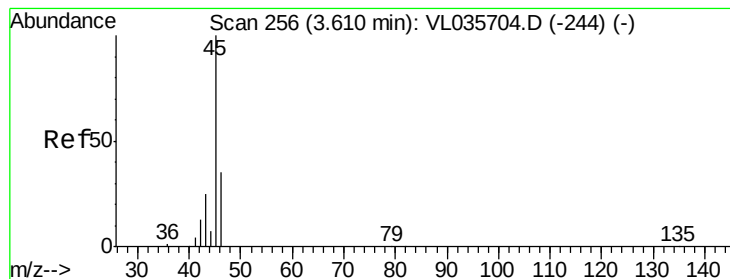
57 77.5 50.4 75.6#



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 57.10 (56.80 to 57.80): VL0





#13

Ethanol

Concen: 3.682 ppbv

RT: 3.60 min Scan# 254

Delta R.T. -0.01 min

Lab File: VL035749.D

Acq: 8 Oct 2020 17:34

Instrument :

MSVOA_L

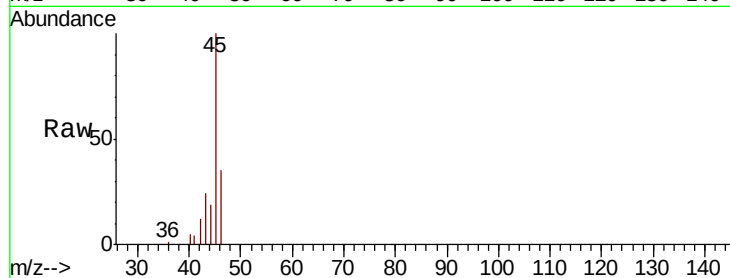
ClientSampleId :

Tot Ion: 45 Resp: 44282

Ion Ratio Lower Upper

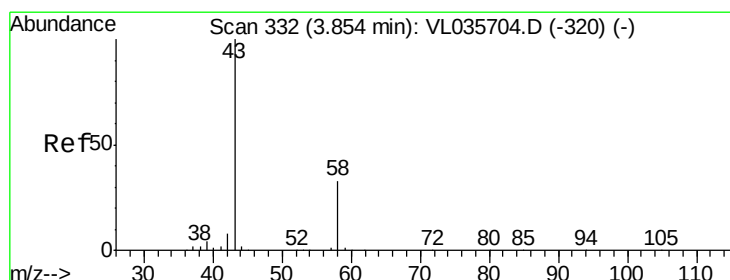
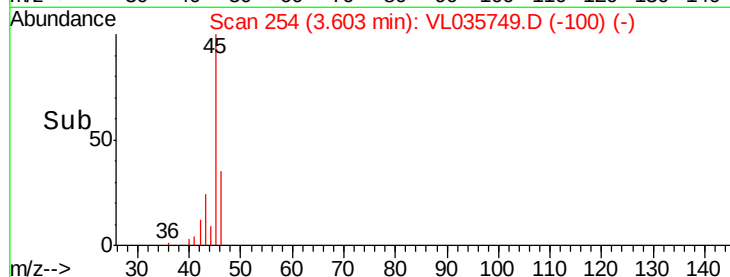
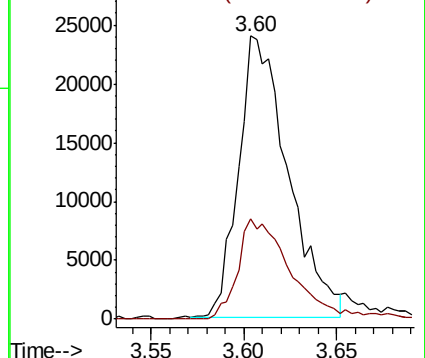
45 100

46 38.8 14.7 58.7



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 46.10 (45.80 to 46.80): VL0



#15

Acetone

Concen: 1.665 ppbv

RT: 3.85 min Scan# 332

Delta R.T. 0.00 min

Lab File: VL035749.D

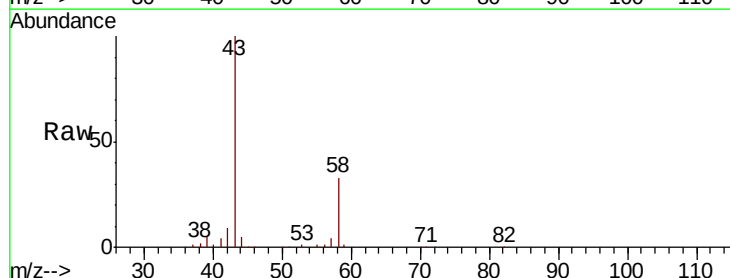
Acq: 8 Oct 2020 17:34

Tgt Ion: 43 Resp: 223643

Ion Ratio Lower Upper

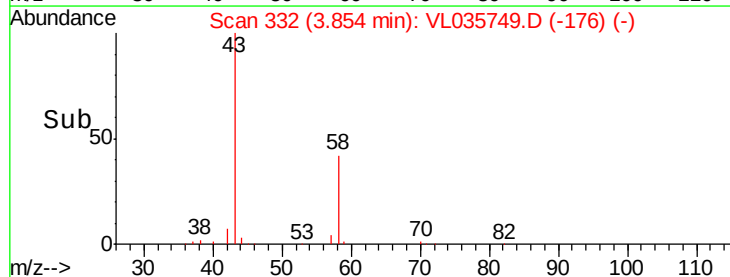
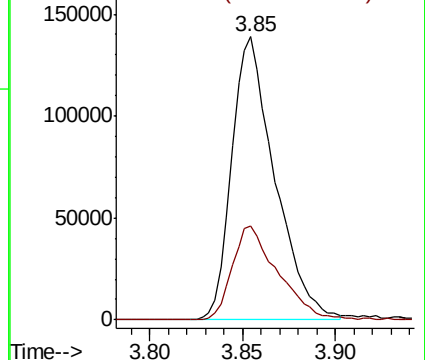
43 100

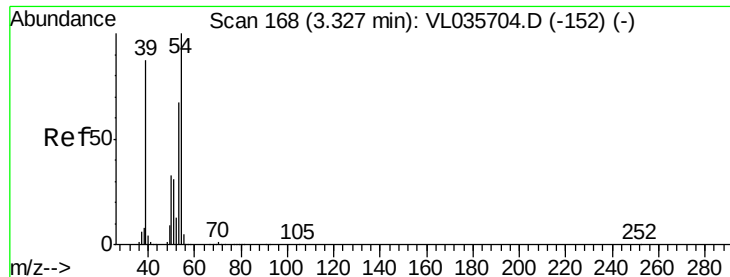
58 35.4 27.3 40.9



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0





#16

1,3-Butadiene

Concen: 0.137 ppbv

RT: 3.30 min Scan# 160

Delta R.T. -0.03 min

Lab File: VL035749.D

Acq: 8 Oct 2020 17:34

Instrument :

MSVOA_L

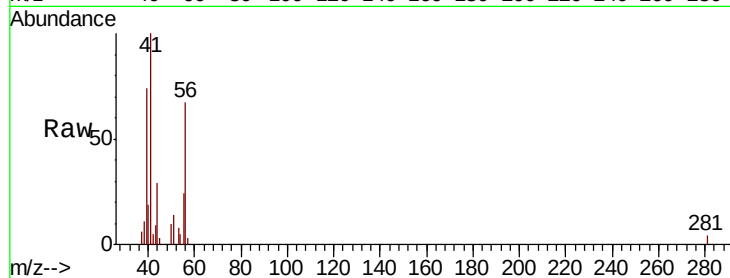
ClientSampleId :

Tot Ion: 39 Resp: 6720

Ion Ratio Lower Upper

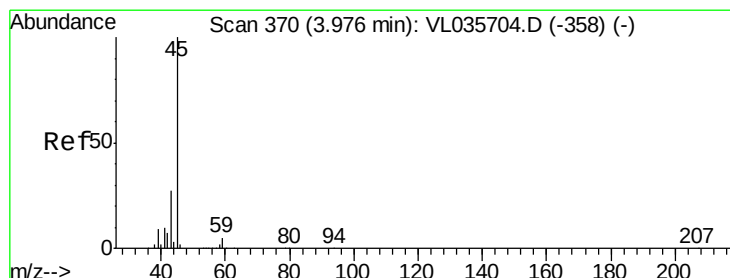
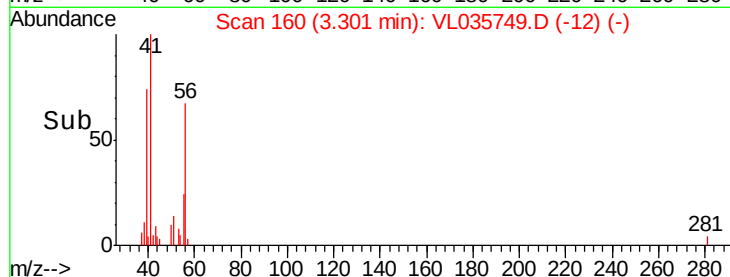
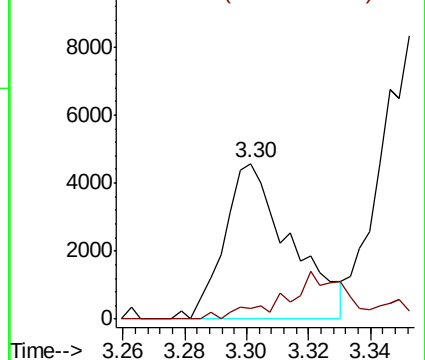
39 100

54 35.1 87.4 131.0#



Abundance Ion 39.10 (38.80 to 39.80): VL0

Ion 54.10 (53.80 to 54.80): VL0



#19

Isopropyl Alcohol

Concen: 0.073 ppbv

RT: 3.98 min Scan# 372

Delta R.T. 0.01 min

Lab File: VL035749.D

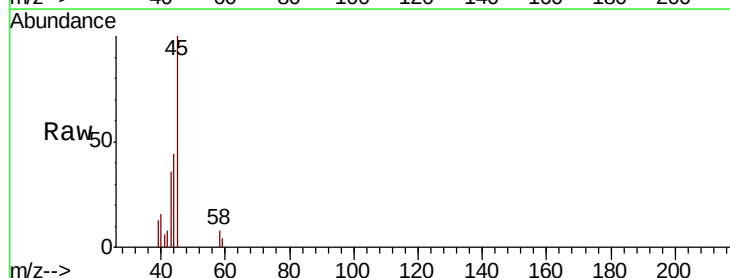
Acq: 8 Oct 2020 17:34

Tgt Ion: 45 Resp: 5349

Ion Ratio Lower Upper

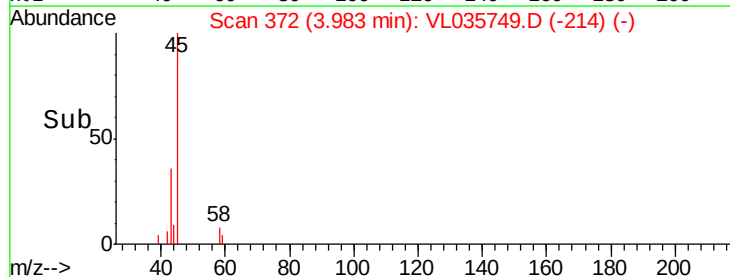
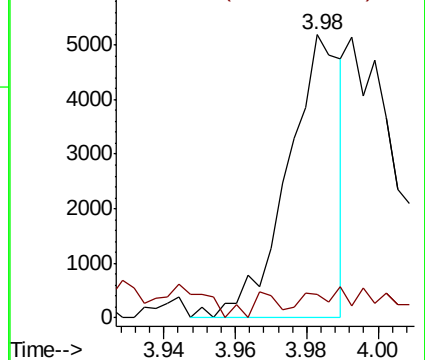
45 100

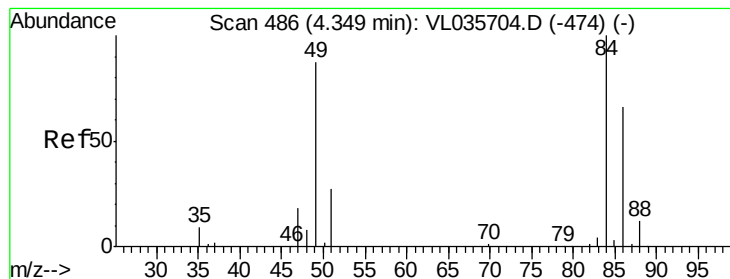
58 0.0 2.8 4.2#



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 58.10 (57.80 to 58.80): VL0





#20

Methvlene Chloride

Concen: 0.385 ppbv

RT: 4.34 min Scan# 484

Delta R.T. -0.01 min

Lab File: VL035749.D

Acq: 8 Oct 2020 17:34

Instrument :

MSVOA_L

ClientSampleId :

Tot Ion: 84 Resp: 38004

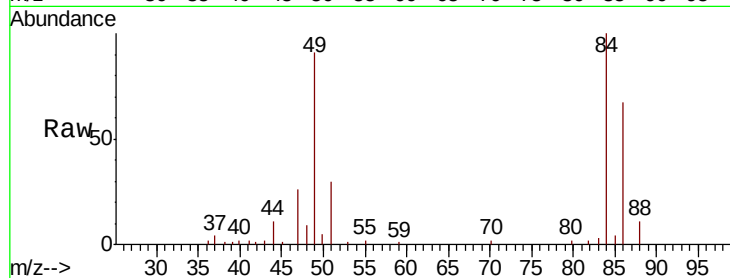
Ion Ratio Lower Upper

84 100

49 89.7 69.8 104.6

51 30.0 21.8 32.8

86 66.9 52.6 78.8

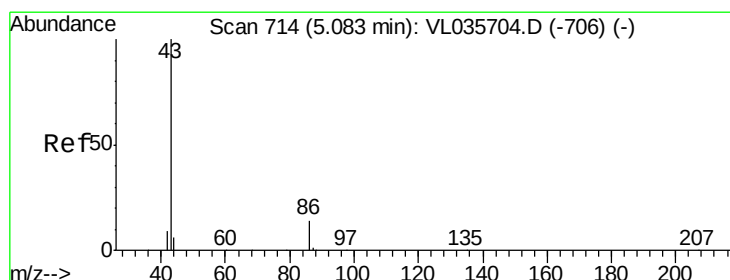
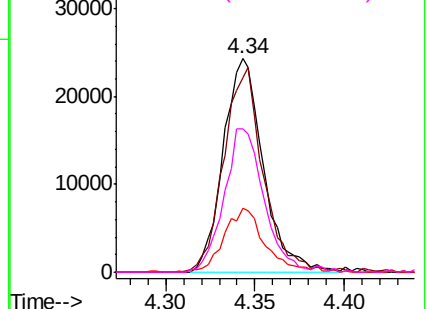
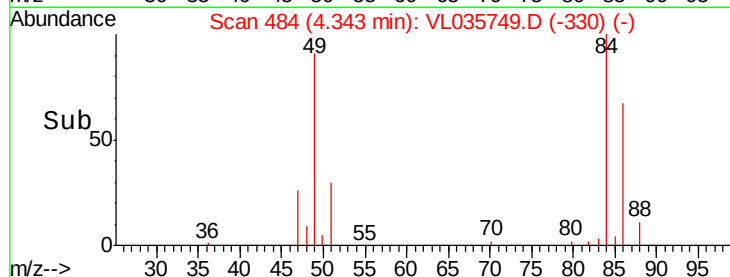


Abundance Ion 84.00 (83.70 to 84.70): VL0

Ion 49.10 (48.80 to 49.80): VL0

Ion 51.10 (50.80 to 51.80): VL0

Ion 86.00 (85.70 to 86.70): VL0



#23

Vinyl Acetate

Concen: 0.038 ppbv

RT: 5.07 min Scan# 710

Delta R.T. -0.01 min

Lab File: VL035749.D

Acq: 8 Oct 2020 17:34

Tgt Ion: 43 Resp: 6225

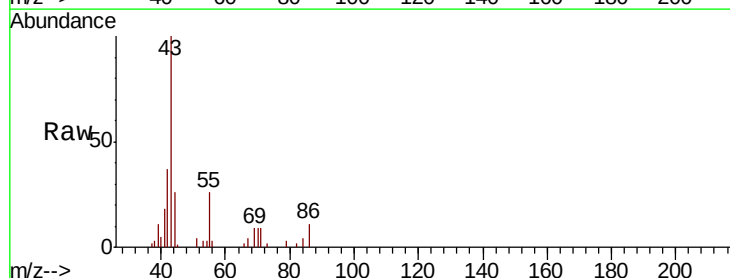
Ion Ratio Lower Upper

43 100

86 6.2 9.7 14.5#

42 42.4 7.9 11.9#

44 11.7 4.8 7.2#

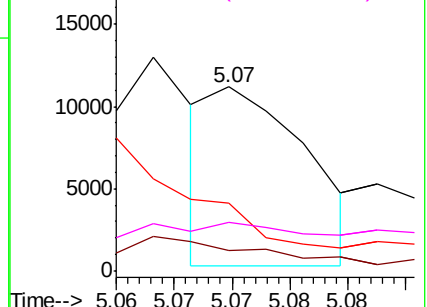
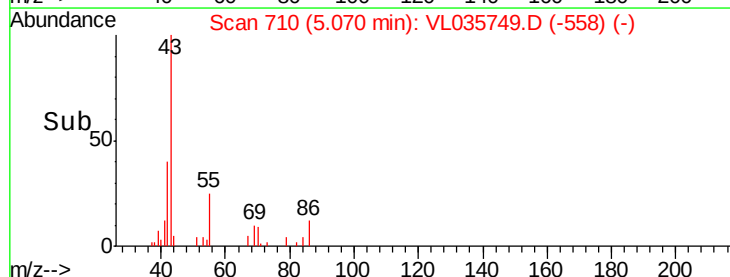


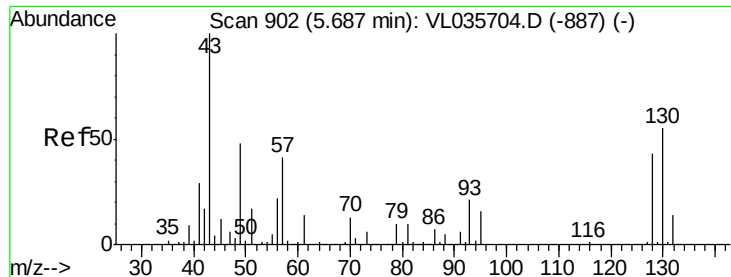
Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 86.10 (85.80 to 86.80): VL0

Ion 42.10 (41.80 to 42.80): VL0

Ion 44.10 (43.80 to 44.80): VL0

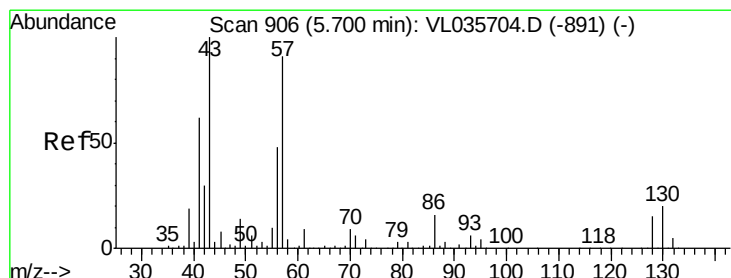
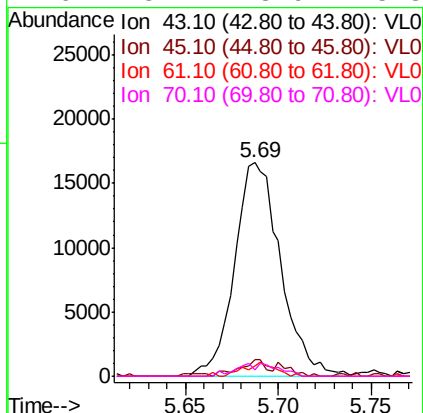
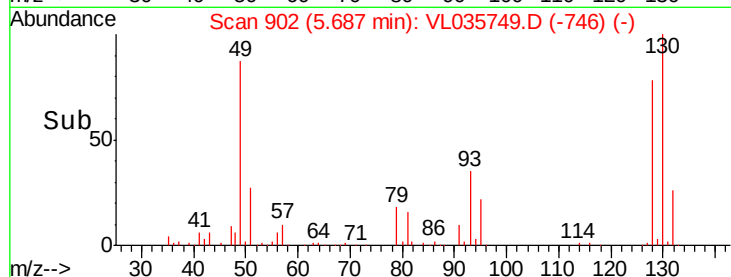
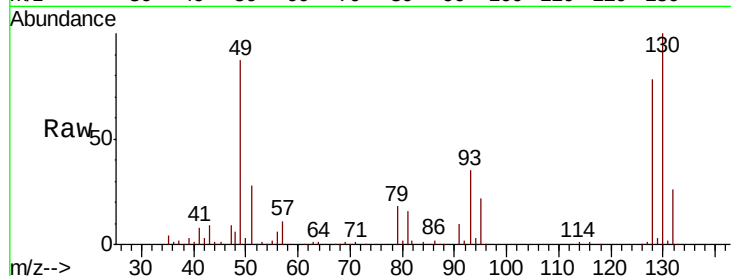




#25
Ethyl Acetate
Concen: 0.118 ppbv
RT: 5.69 min Scan# 902
Delta R.T. 0.00 min
Lab File: VL035749.D
Acq: 8 Oct 2020 17:34

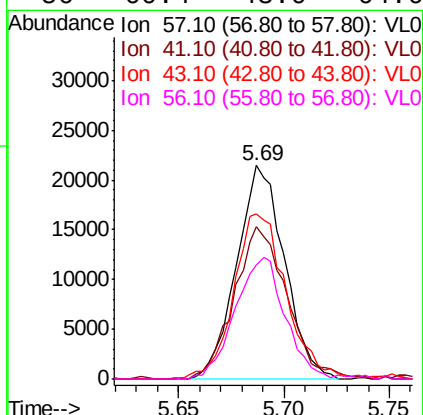
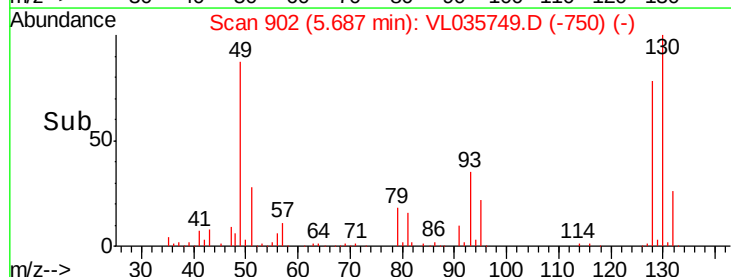
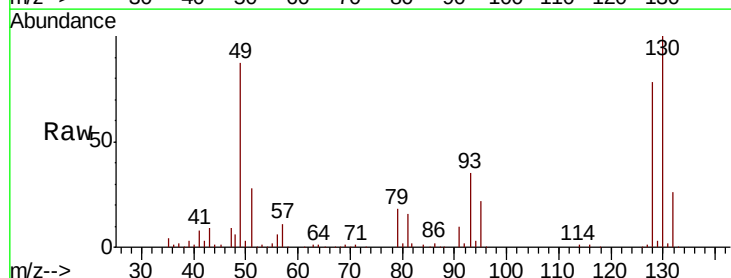
Instrument :
MSVOA_L
ClientSampled :

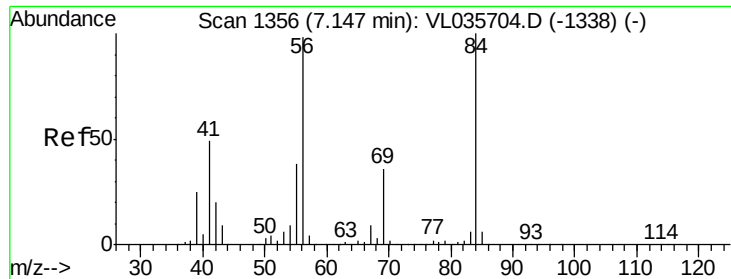
Tot Ion: 43 Resp: 28490
Ion Ratio Lower Upper
43 100
45 7.3 8.6 12.8#
61 4.4 10.4 15.6#
70 5.4 8.9 13.3#



#26
Hexane
Concen: 0.255 ppbv
RT: 5.69 min Scan# 902
Delta R.T. -0.01 min
Lab File: VL035749.D
Acq: 8 Oct 2020 17:34

Tgt Ion: 57 Resp: 33721
Ion Ratio Lower Upper
57 100
41 79.7 57.9 86.9
43 85.9 143.8 215.6#
56 60.4 43.0 64.6

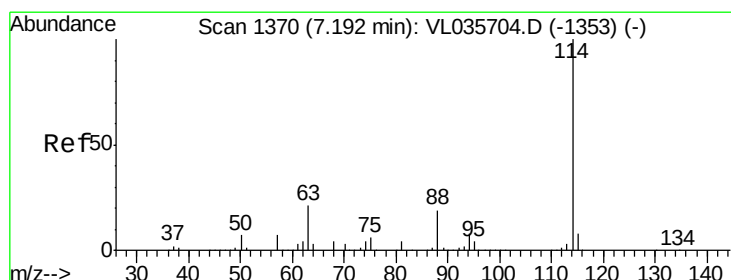
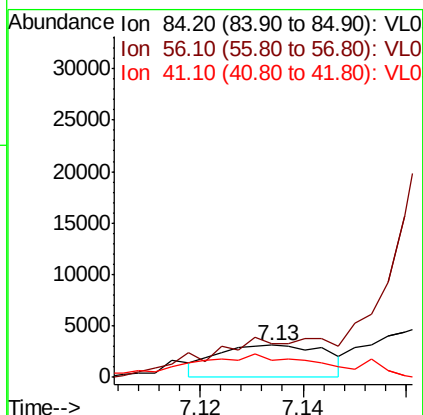
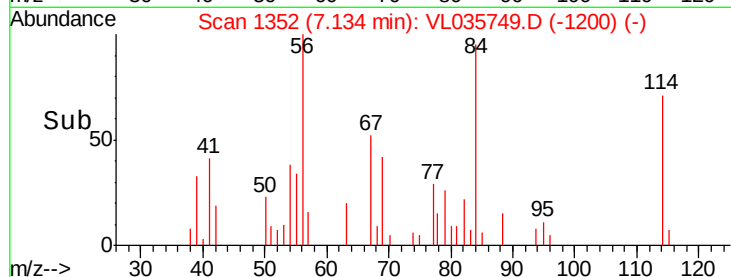
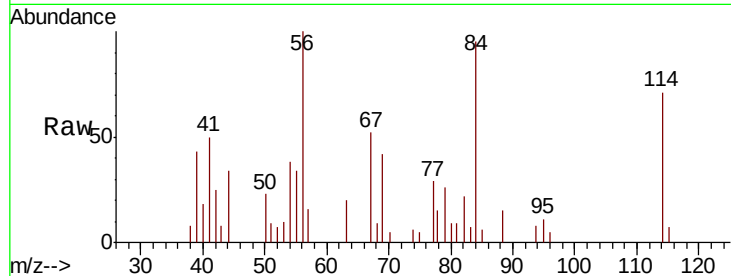




#30
Cyclohexane
Concen: 0.035 ppbv
RT: 7.13 min Scan# 1352
Delta R.T. -0.01 min
Lab File: VL035749.D
Acq: 8 Oct 2020 17:34

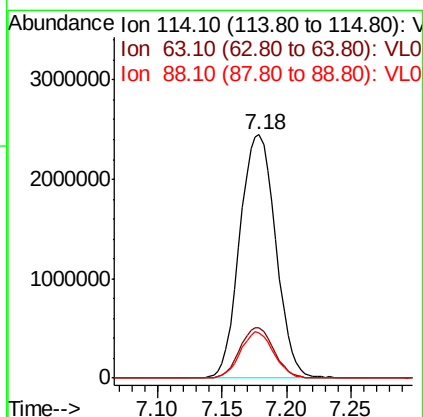
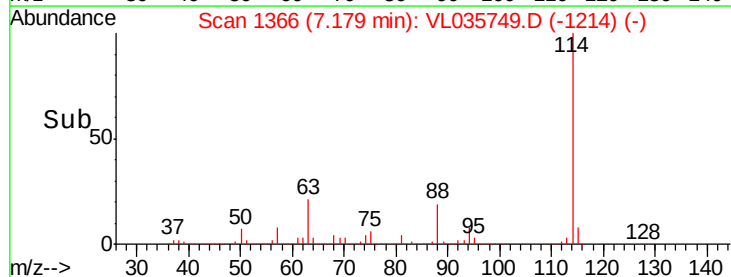
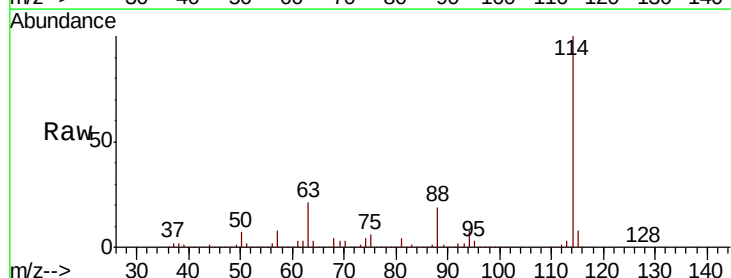
Instrument :
MSVOA_L
ClientSampled :

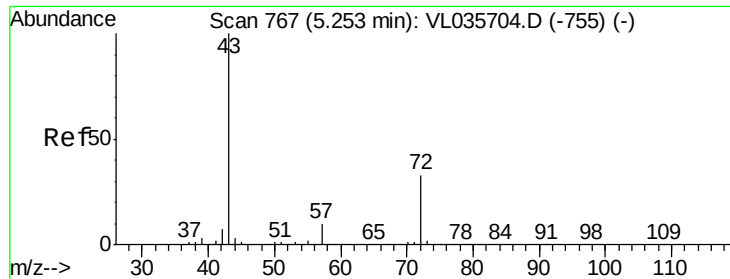
Tot Ion: 84 Resp: 4591
Ion Ratio Lower Upper
84 100
56 0.0 84.6 127.0#
41 101.2 41.1 61.7#



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.18 min Scan# 1366
Delta R.T. -0.01 min
Lab File: VL035749.D
Acq: 8 Oct 2020 17:34

Tgt Ion: 114 Resp: 4758118
Ion Ratio Lower Upper
114 100
63 19.8 16.1 24.1
88 17.6 14.1 21.1

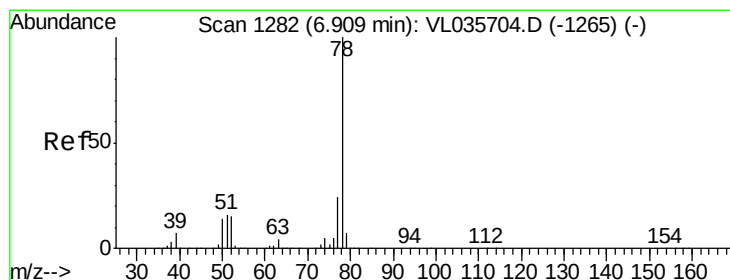
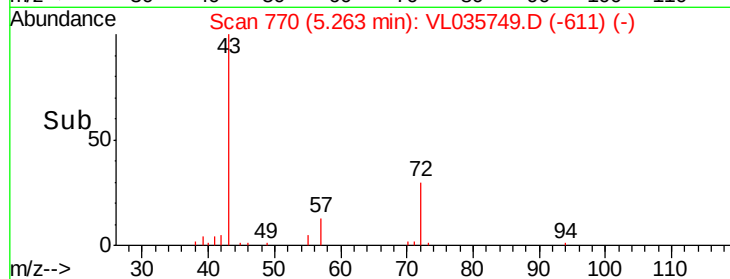
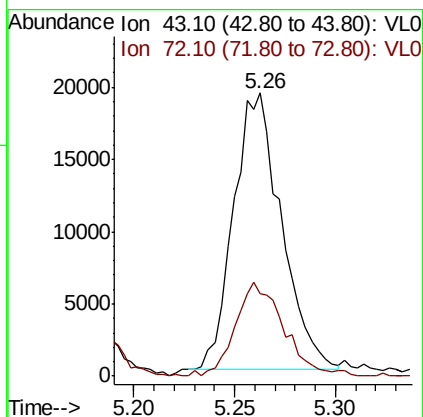
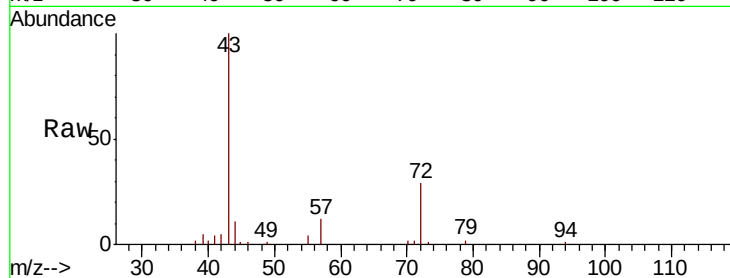




#34
2-Butanone
Concen: 0.202 ppbv
RT: 5.26 min Scan# 770
Delta R.T. 0.01 min
Lab File: VL035749.D
Acq: 8 Oct 2020 17:34

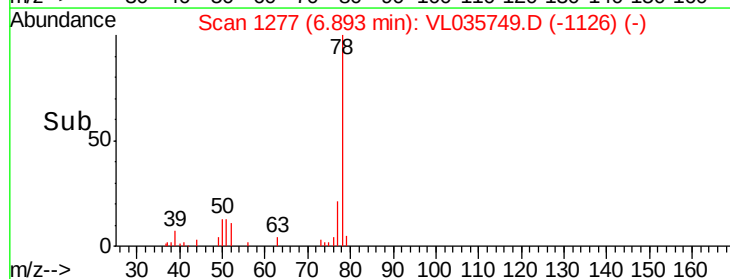
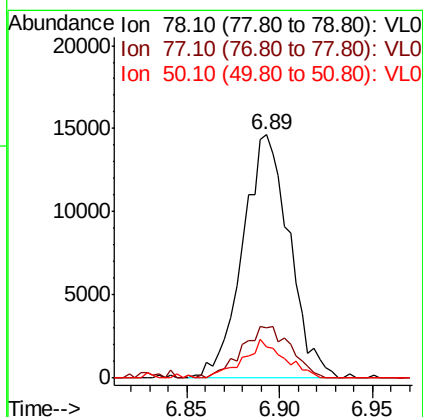
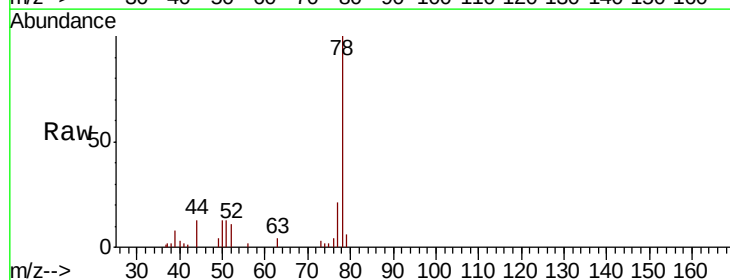
Instrument :
MSVOA_L
ClientSampled :

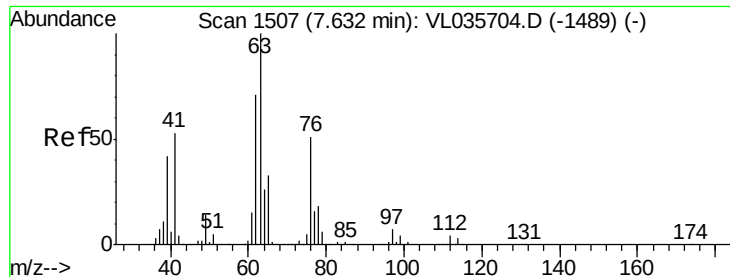
Tot Ion: 43 Resp: 31739
Ion Ratio Lower Upper
43 100
72 34.4 26.1 39.1



#36
Benzene
Concen: 0.083 ppbv
RT: 6.89 min Scan# 1277
Delta R.T. -0.02 min
Lab File: VL035749.D
Acq: 8 Oct 2020 17:34

Tgt Ion: 78 Resp: 25590
Ion Ratio Lower Upper
78 100
77 20.8 19.3 28.9
50 12.9 11.6 17.4





#39

1,2-Dichloropropane

Concen: 8.370 ppbv

RT: 7.18 min Scan# 1366

Delta R.T. -0.45 min

Lab File: VL035749.D

Acq: 8 Oct 2020 17:34

Instrument :

MSVOA_L

ClientSampleId :

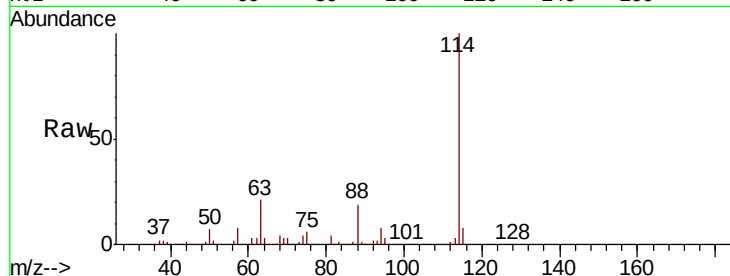
Tot Ion: 63 Resp: 940579

Ion Ratio Lower Upper

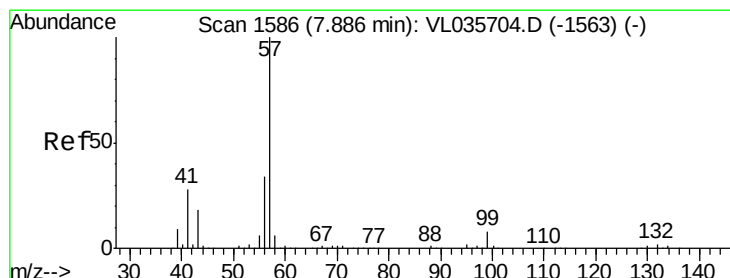
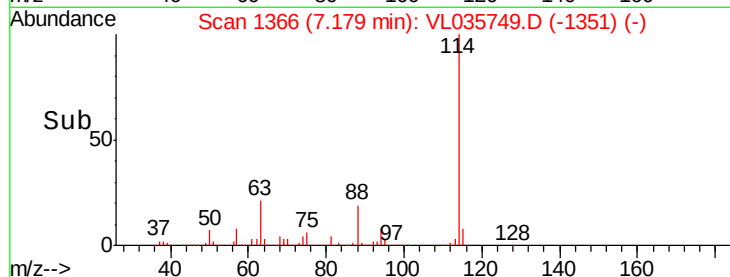
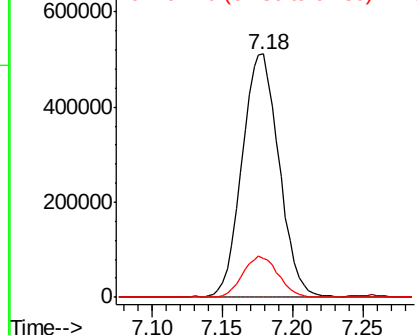
63 100

41 0.0 42.6 63.8#

62 15.7 56.5 84.7#



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: 0.078 ppbv

RT: 7.87 min Scan# 1581

Delta R.T. -0.02 min

Lab File: VL035749.D

Acq: 8 Oct 2020 17:34

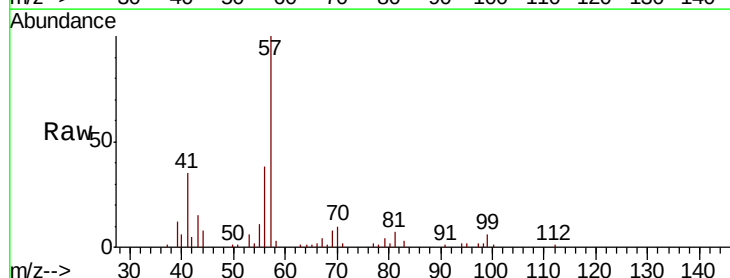
Tgt Ion: 57 Resp: 34876

Ion Ratio Lower Upper

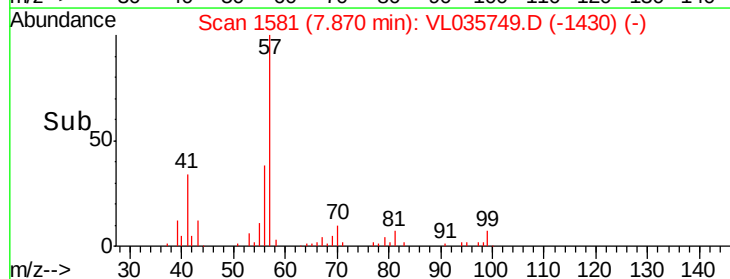
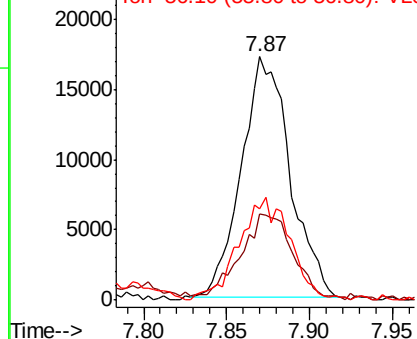
57 100

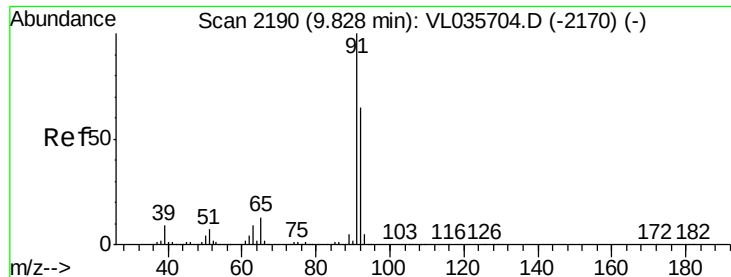
41 38.8 21.2 31.8#

56 45.5 25.8 38.8#



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





#53

Toluene

Concen: 0.354 ppbv

RT: 9.81 min Scan# 2185

Delta R.T. -0.02 min

Lab File: VL035749.D

Acq: 8 Oct 2020 17:34

Instrument :

MSVOA_L

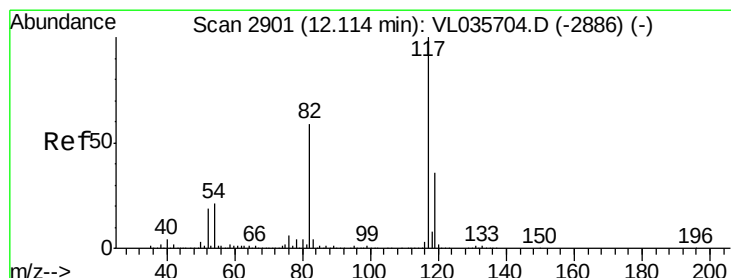
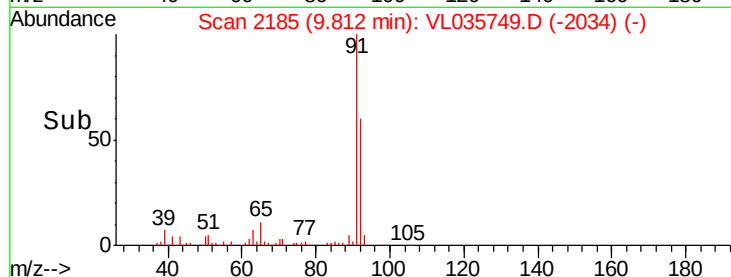
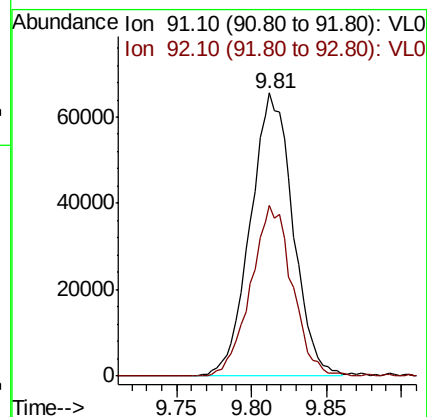
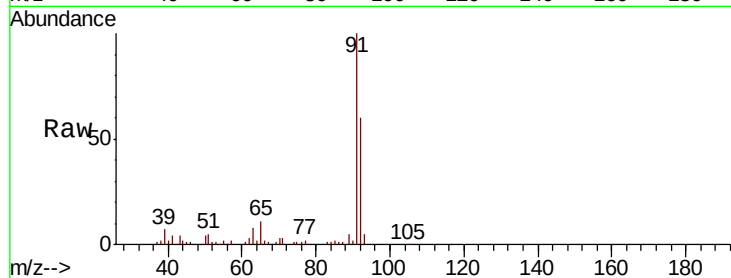
ClientSampleId :

Tot Ion: 91 Resp: 129504

Ion Ratio Lower Upper

91 100

92 58.8 50.0 75.0



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.10 min Scan# 2895

Delta R.T. -0.02 min

Lab File: VL035749.D

Acq: 8 Oct 2020 17:34

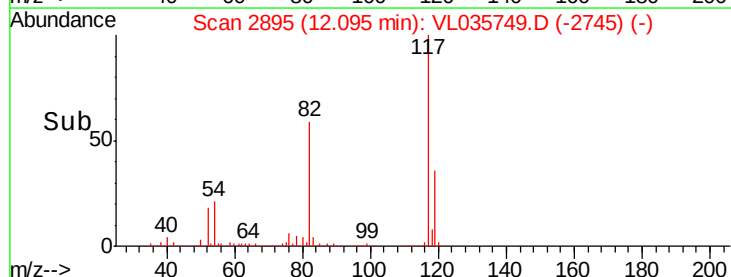
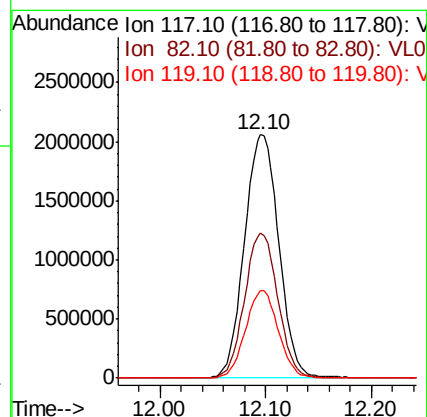
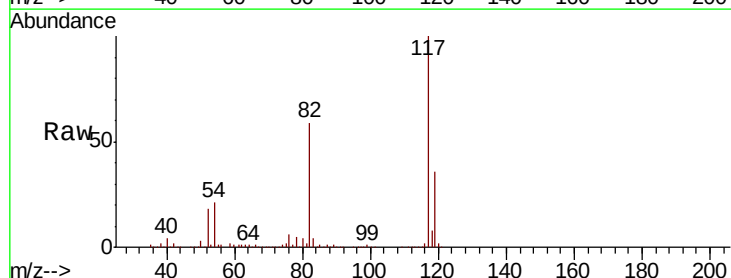
Tgt Ion: 117 Resp: 4666639

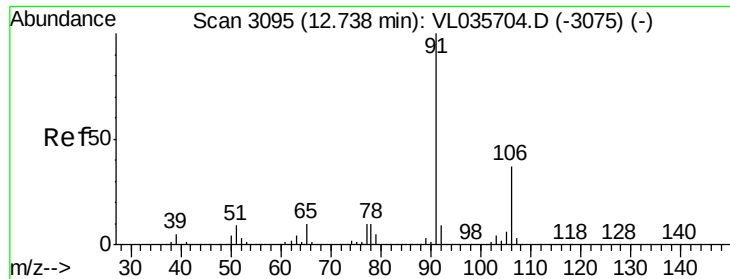
Ion Ratio Lower Upper

117 100

82 58.1 46.1 69.1

119 34.6 28.0 42.0





#58

Ethyl Benzene

Concen: 0.034 ppbv

RT: 12.73 min Scan# 3091

Delta R.T. -0.01 min

Lab File: VL035749.D

Acq: 8 Oct 2020 17:34

Instrument :

MSVOA_L

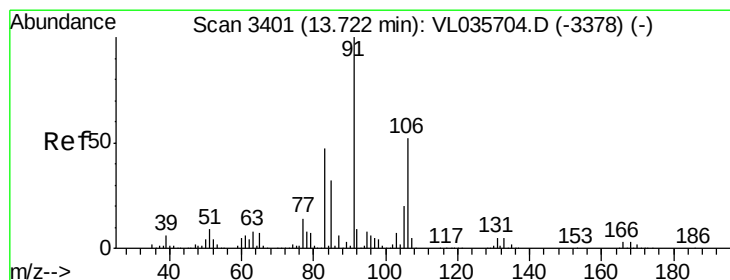
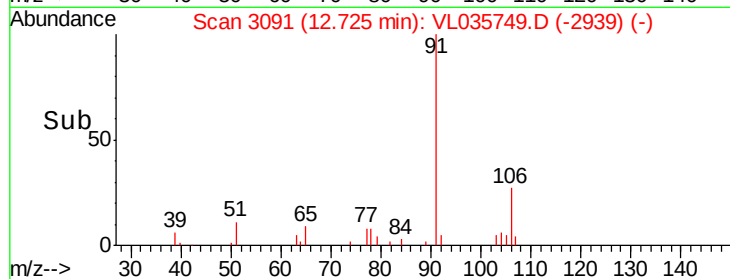
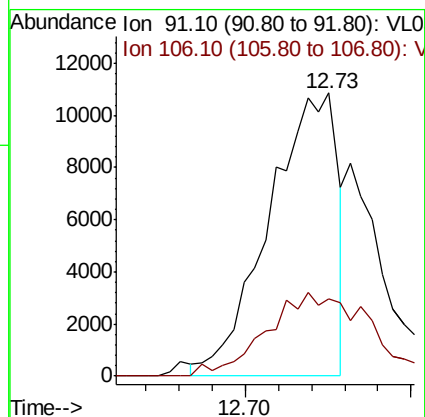
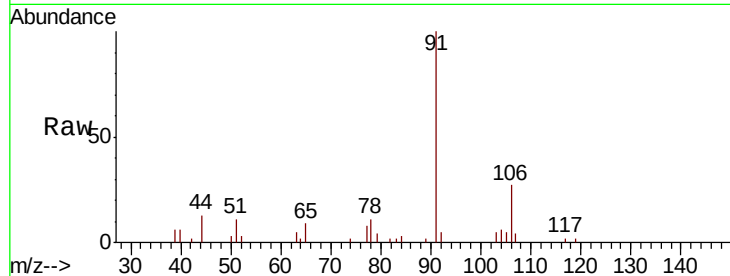
ClientSampleId :

Tot Ion: 91 Resp: 15714

Ion Ratio Lower Upper

91 100

106 28.7 29.7 44.5#



#60

o-Xylene

Concen: 0.041 ppbv

RT: 13.70 min Scan# 3394

Delta R.T. -0.02 min

Lab File: VL035749.D

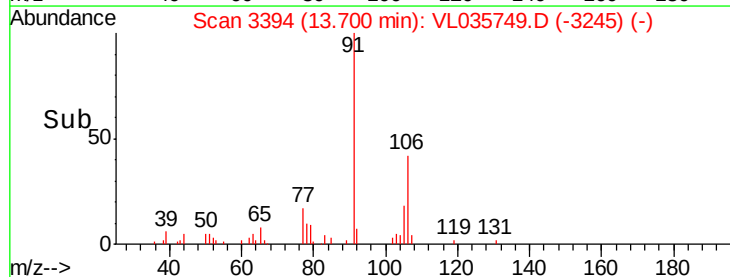
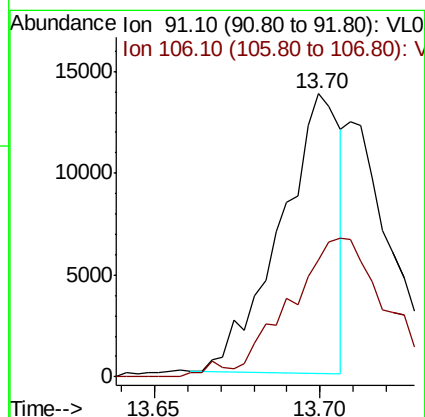
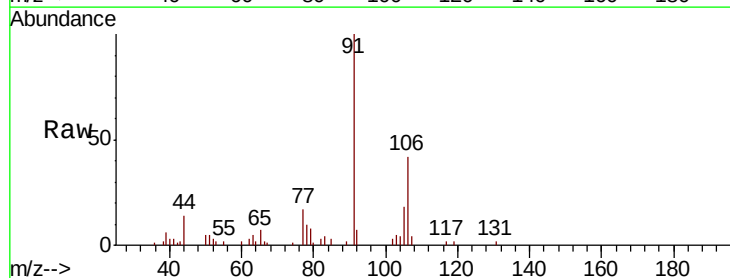
Acq: 8 Oct 2020 17:34

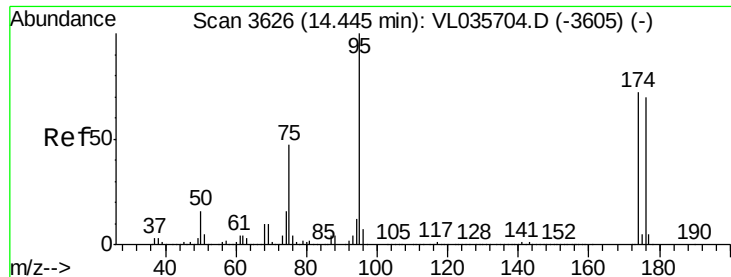
Tgt Ion: 91 Resp: 17159

Ion Ratio Lower Upper

91 100

106 0.0 25.0 75.0#

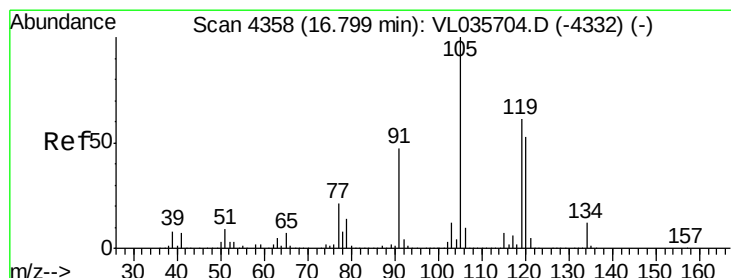
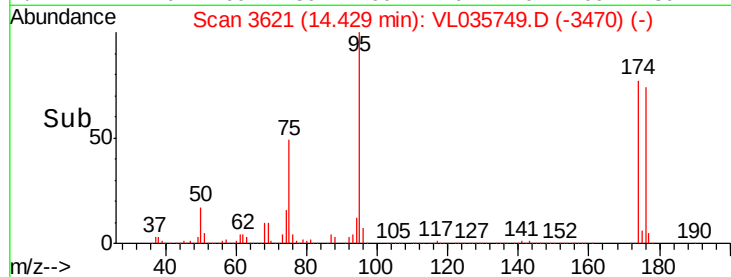
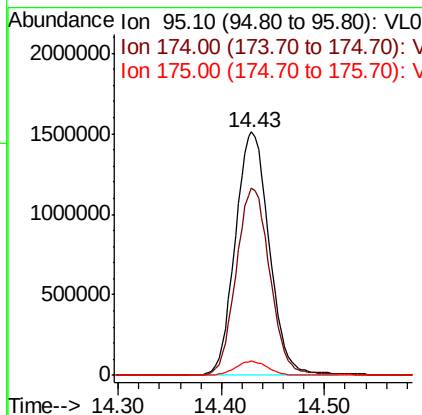
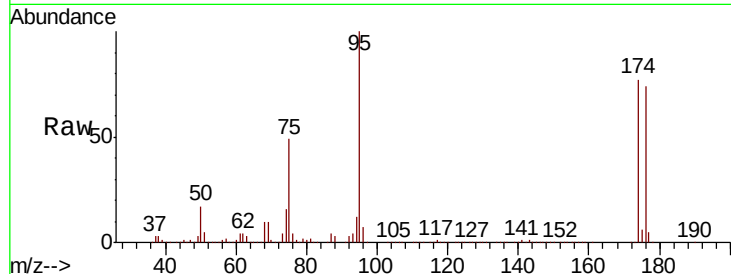




#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.908 ppbv
 RT: 14.43 min Scan# 3621
 Delta R.T. -0.02 min
 Lab File: VL035749.D
 Acq: 8 Oct 2020 17:34

Instrument :
 MSVOA_L
 ClientSampleId :

Tot Ion: 95 Resp: 3464655
 Ion Ratio Lower Upper
 95 100
 174 77.5 59.6 89.4
 175 5.6 4.2 6.4



#74
 1,2,4-Trimethylbenzene
 Concen: 0.053 ppbv
 RT: 16.79 min Scan# 4354
 Delta R.T. -0.01 min
 Lab File: VL035749.D
 Acq: 8 Oct 2020 17:34

Tgt Ion: 105 Resp: 27551
 Ion Ratio Lower Upper
 105 100
 120 35.4 42.5 63.7#
 91 12.9 37.7 56.5#
 77 11.7 16.7 25.1#

