

Data File : VL034828.D
Acq On : 6 Mar 2020 23:45
Operator : SY/AP
Sample : L1698-05DL2 300X
Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
SS-5-4DL

Quant Time: Mar 07 03:19:53 2020
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL030420AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Mar 04 06:36:39 2020
QLast Update : Wed Mar 04 06:36:39 2020
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.66	49	918276	10.00	ppbv	-0.02
33) 1,4-Difluorobenzene	7.19	114	2108074	10.00	ppbv	-0.02
55) Chlorobenzene-d5	12.12	117	2075230	10.00	ppbv	-0.02

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.45	95	1649243	9.53	ppbv	-0.03
Spiked Amount	10.000	Range	65 - 135	Recovery	=	95.30%

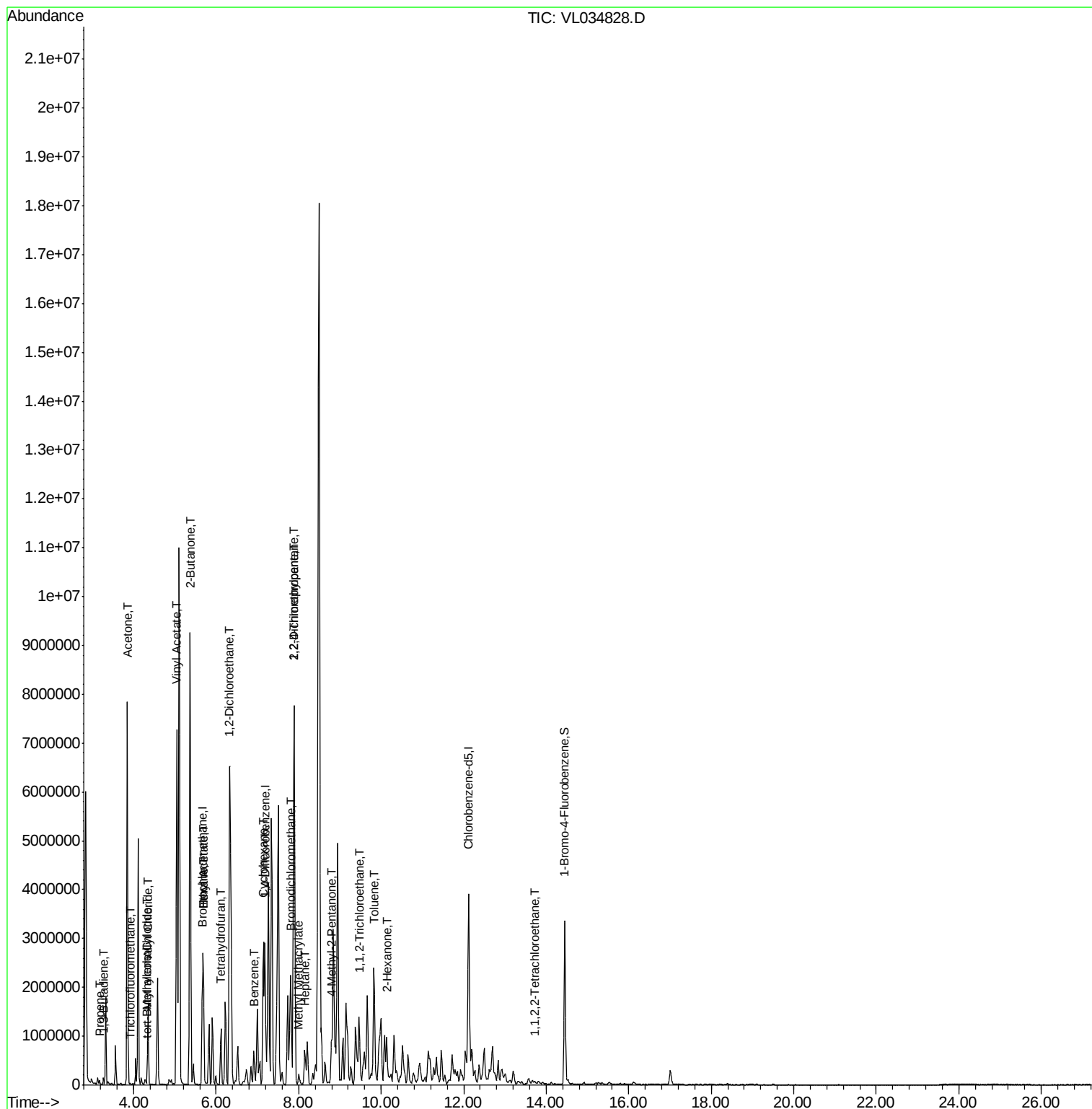
Target Compounds						Qvalue
9) Propene	3.17	41	21881	0.531	ppbv	96
10) Heptane	8.15	43	211224	2.018	ppbv #	27
11) Trichlorofluoromethane	3.92	101	8097	0.060	ppbv	99
15) Acetone	3.85	43	2705715	24.606	ppbv #	56
16) 1,3-Butadiene	3.27	39	37775	0.759	ppbv #	16
17) tert-Butyl alcohol	4.31	59	7032	0.081	ppbv #	71
20) Methylene Chloride	4.32	84	7842	0.200	ppbv #	79
21) Allyl Chloride	4.35	41	285272	4.097	ppbv #	63
23) Vinyl Acetate	5.05	43	3615947	24.523	ppbv #	1
25) Ethyl Acetate	5.69	43	714901	3.762	ppbv #	76
26) Hexane	5.69	57	1009495	12.161	ppbv #	41
30) Cyclohexane	7.14	84	1034592	16.291	ppbv	99
34) 2-Butanone	5.37	43	1511118	11.018	ppbv #	56
36) Benzene	6.90	78	16363	0.091	ppbv #	67
37) 1,2-Dichloroethane	6.31	62	3827	0.031	ppbv #	84
39) 1,2-Dichloropropane	7.89	63	10983	0.151	ppbv #	1
41) Tetrahydrofuran	6.11	42	34006	0.486	ppbv #	36
42) Bromodichloromethane	7.81	83	357584	2.297	ppbv #	25
43) Methyl Methacrylate	8.00	69	86963	1.139	ppbv #	72
44) 2,2,4-Trimethylpentane	7.89	57	6105265	19.395	ppbv #	75
47) 1,1,2-Trichloroethane	9.46	97	56044	0.730	ppbv #	1
50) 4-Methyl-2-Pentanone	8.79	43	52719	0.268	ppbv #	39
51) 2-Hexanone	10.13	43	229817	1.491	ppbv #	29
53) Toluene	9.83	91	14263	0.075	ppbv	100
63) 1,1,2,2-Tetrachloroethane	13.72	83	5300	0.030	ppbv #	24

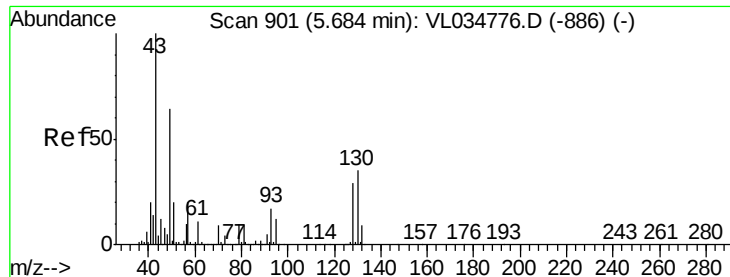
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.66 min Scan# 894

Delta R.T. -0.02 min

Lab File: VL034828.D

Acq: 6 Mar 2020 23:45

Instrument :

MSVOA_L

ClientSampleId :

SS-5-4DL

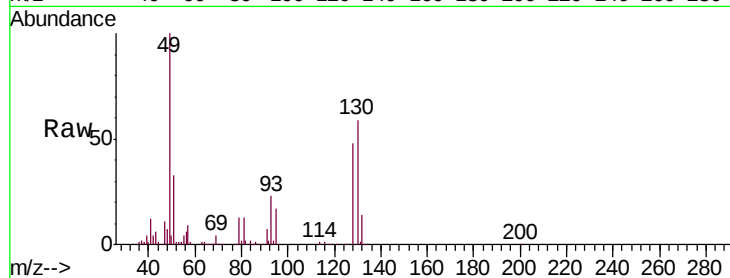
Tgt Ion: 49 Resp: 918276

Ion Ratio Lower Upper

49 100

128 47.1 21.6 64.6

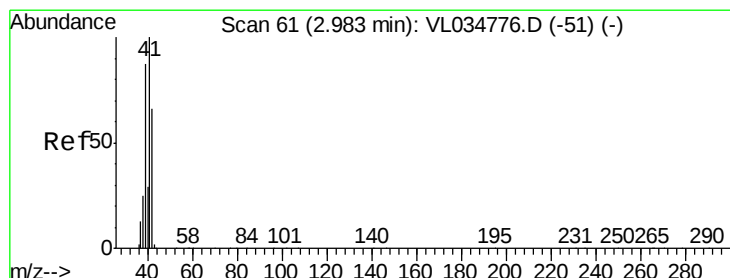
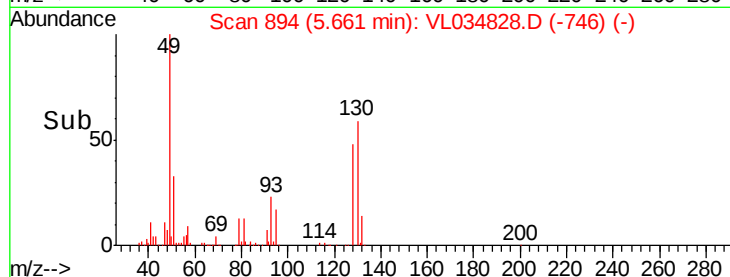
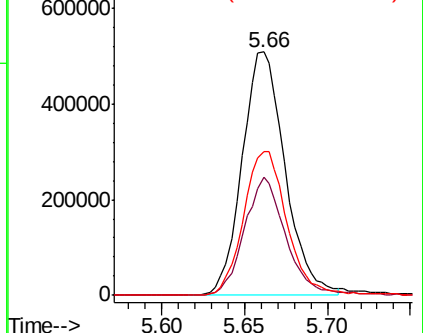
130 60.7 27.4 82.2



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: 0.531 ppbv

RT: 3.17 min Scan# 119

Delta R.T. 0.19 min

Lab File: VL034828.D

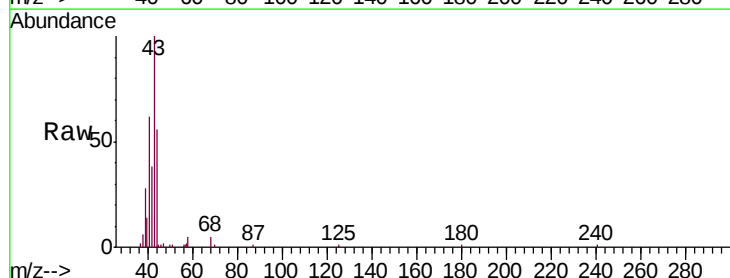
Acq: 6 Mar 2020 23:45

Tgt Ion: 41 Resp: 21881

Ion Ratio Lower Upper

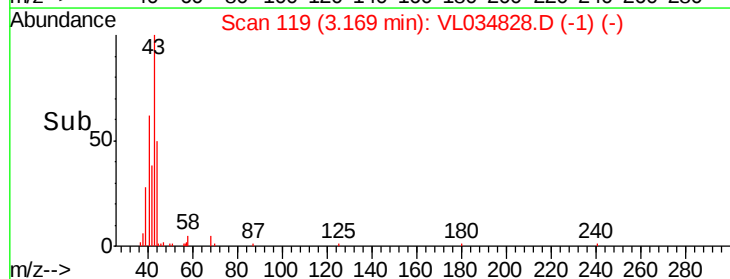
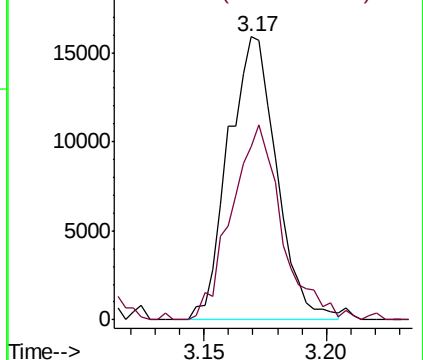
41 100

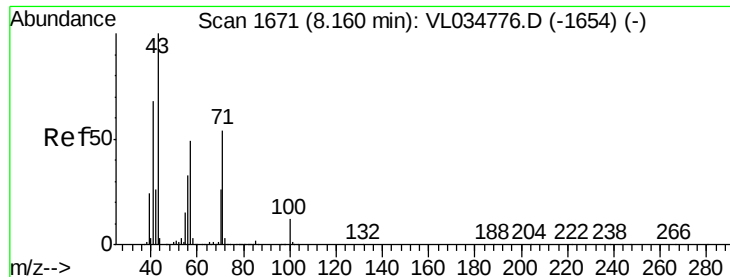
42 72.6 55.6 83.4



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0





#10

Heptane

Concen: 2.018 ppbv

RT: 8.15 min Scan# 1667

Delta R.T. -0.01 min

Lab File: VL034828.D

Acq: 6 Mar 2020 23:45

Instrument :

MSVOA_L

ClientSampleId :

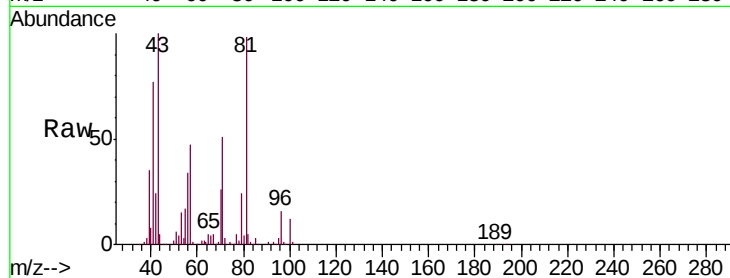
SS-5-4DL

Tgt Ion: 43 Resp: 211224

Ion Ratio Lower Upper

43 100

57 0.0 40.5 60.7#



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 57.10 (56.80 to 57.80): VL0

8.15

100000

80000

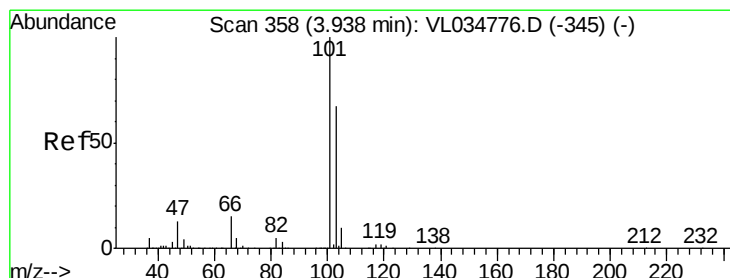
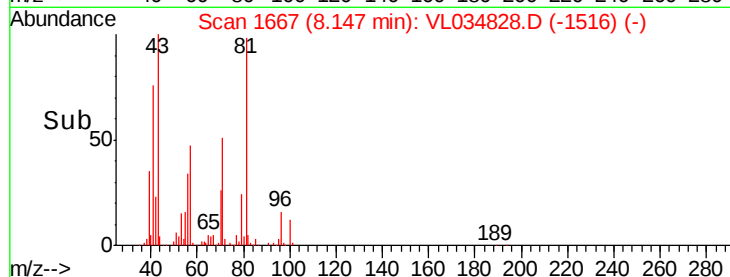
60000

40000

20000

0

Time-->



#11

Trichlorofluoromethane

Concen: 0.060 ppbv

RT: 3.92 min Scan# 353

Delta R.T. -0.02 min

Lab File: VL034828.D

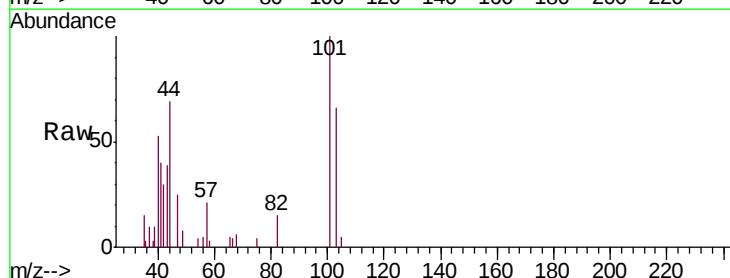
Acq: 6 Mar 2020 23:45

Tgt Ion: 101 Resp: 8097

Ion Ratio Lower Upper

101 100

103 66.0 53.6 80.4



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V

3.92

6000

5000

4000

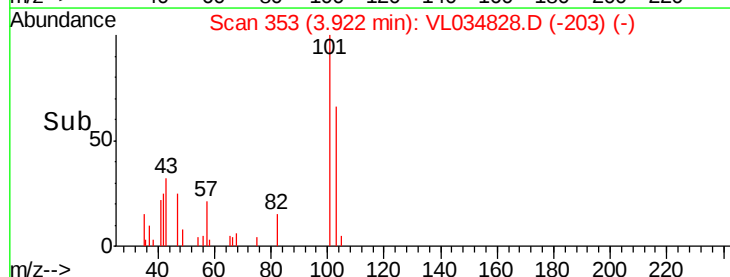
3000

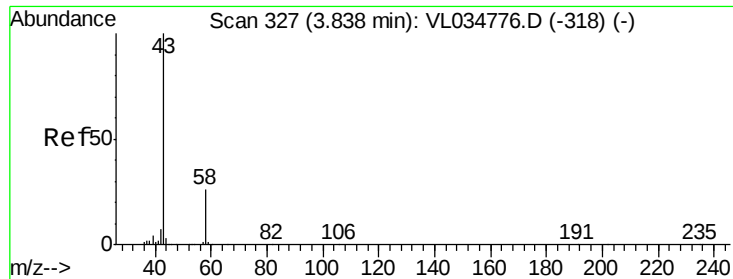
2000

1000

0

Time-->





#15

Acetone

Concen: 24.606 ppbv

RT: 3.85 min Scan# 330

Delta R.T. 0.01 min

Lab File: VL034828.D

Acq: 6 Mar 2020 23:45

Instrument :

MSVOA_L

ClientSampleId :

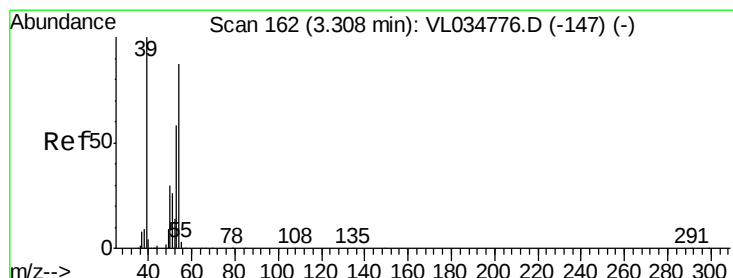
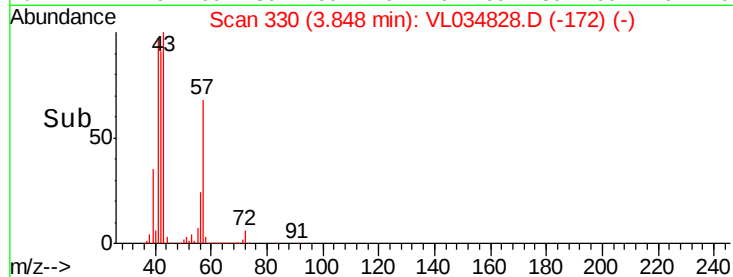
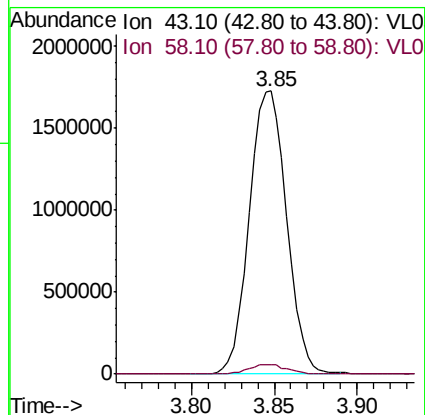
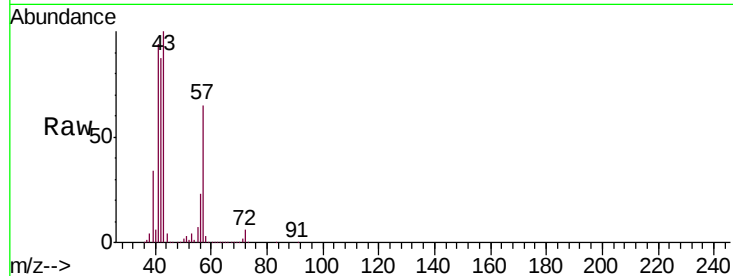
SS-5-4DL

Tgt Ion: 43 Resp: 2705715

Ion Ratio Lower Upper

43 100

58 3.6 21.0 31.6#



#16

1,3-Butadiene

Concen: 0.759 ppbv

RT: 3.27 min Scan# 149

Delta R.T. -0.04 min

Lab File: VL034828.D

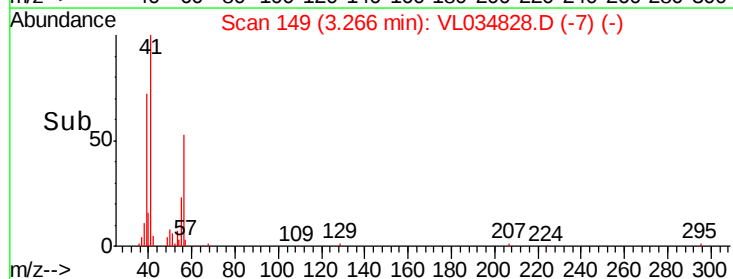
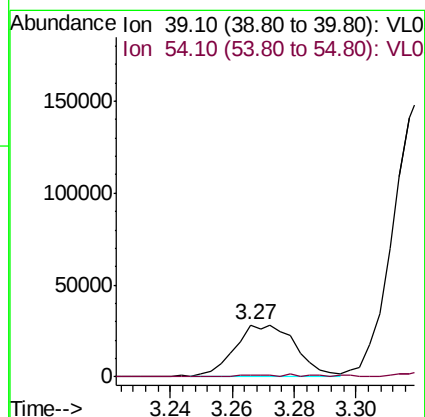
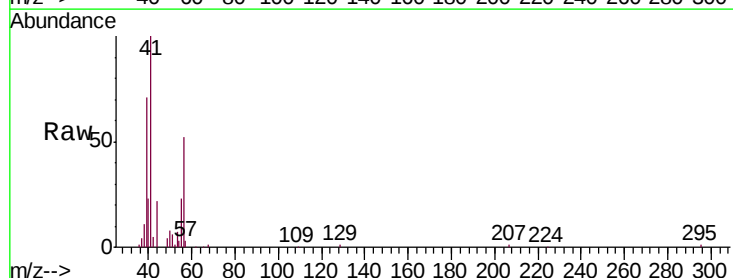
Acq: 6 Mar 2020 23:45

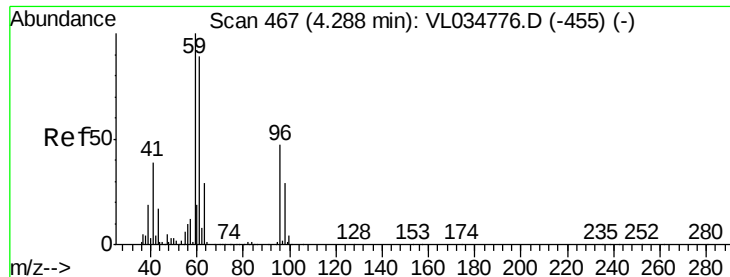
Tgt Ion: 39 Resp: 37775

Ion Ratio Lower Upper

39 100

54 6.3 64.2 96.2#



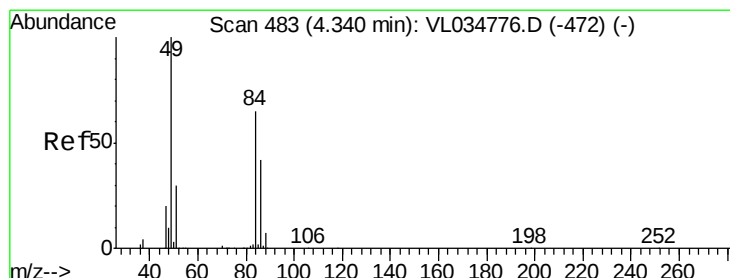
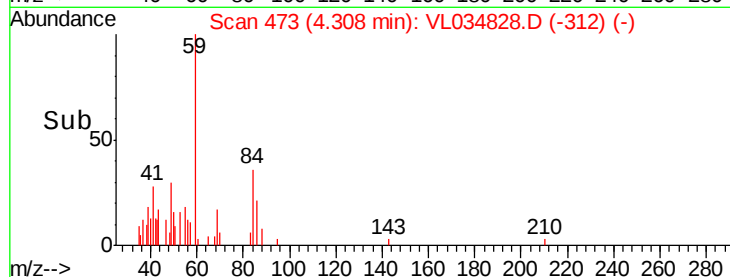
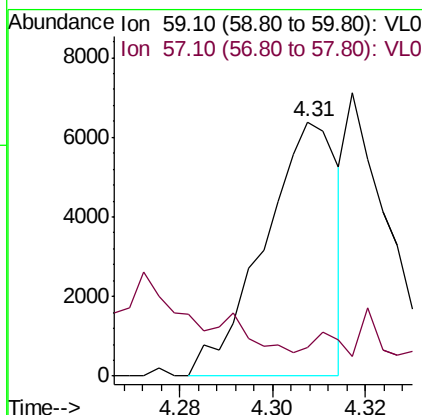
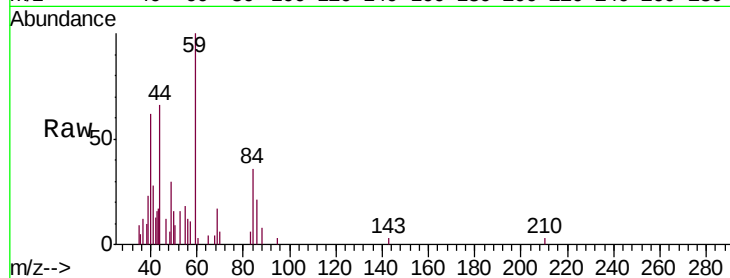


#17

tert-Butyl alcohol
Concen: 0.081 ppbv
RT: 4.31 min Scan# 473
Delta R.T. 0.02 min
Lab File: VL034828.D
Acq: 6 Mar 2020 23:45

Instrument :
MSVOA_L
ClientSampleId :
SS-5-4DL

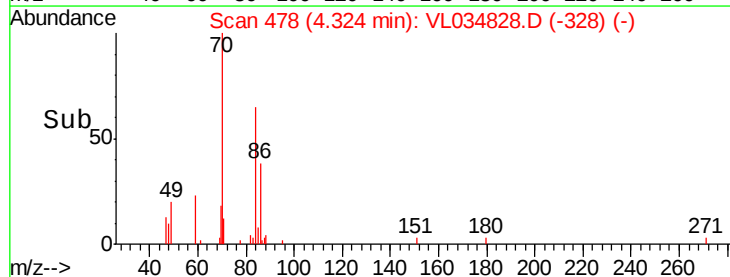
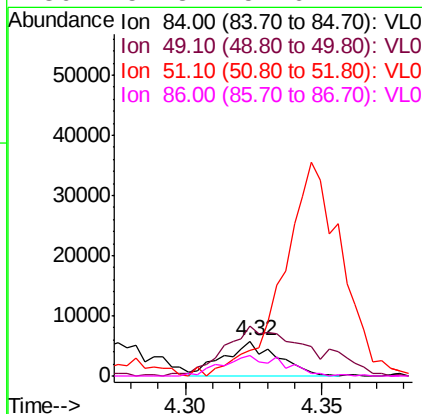
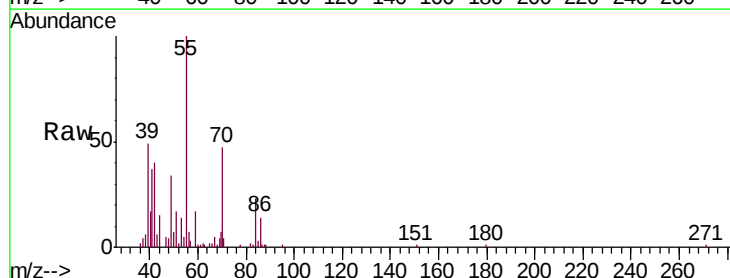
Tgt Ion: 59 Resp: 7032
Ion Ratio Lower Upper
59 100
57 0.0 8.6 13.0#

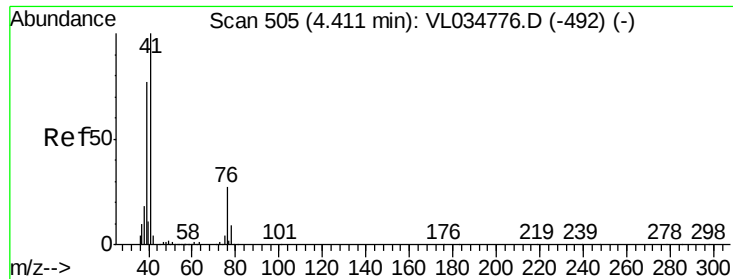


#20

Methylene Chloride
Concen: 0.200 ppbv
RT: 4.32 min Scan# 478
Delta R.T. -0.02 min
Lab File: VL034828.D
Acq: 6 Mar 2020 23:45

Tgt Ion: 84 Resp: 7842
Ion Ratio Lower Upper
84 100
49 128.8 123.2 184.8
51 69.0 37.4 56.2#
86 52.3 51.6 77.4

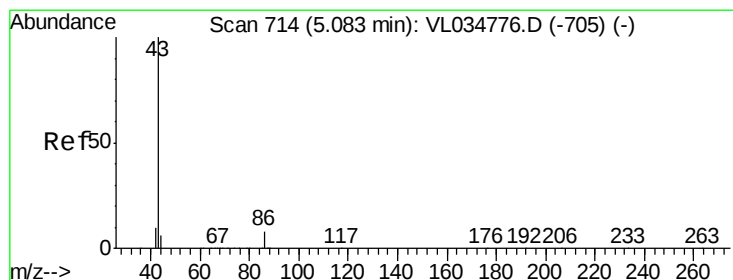
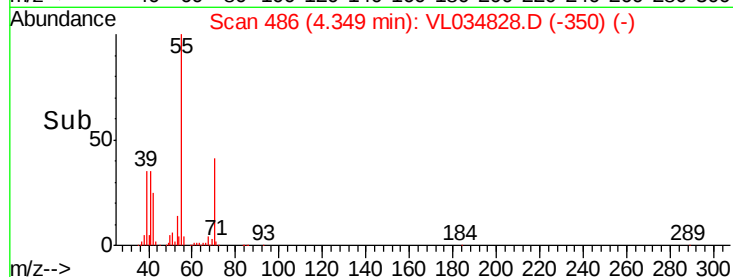
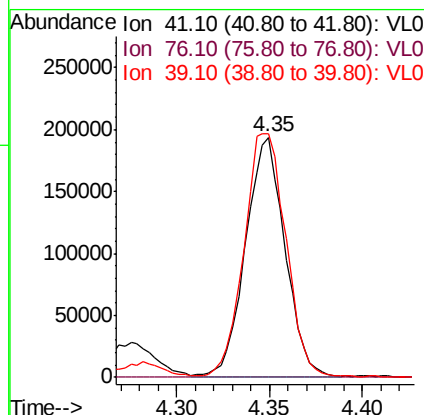
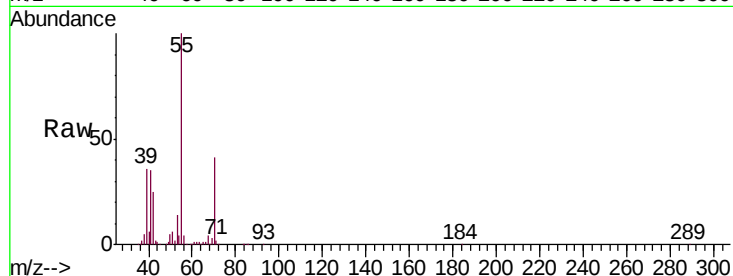




#21
 Allyl Chloride
 Concen: 4.097 ppbv
 RT: 4.35 min Scan# 486
 Delta R.T. -0.06 min
 Lab File: VL034828.D
 Acq: 6 Mar 2020 23:45

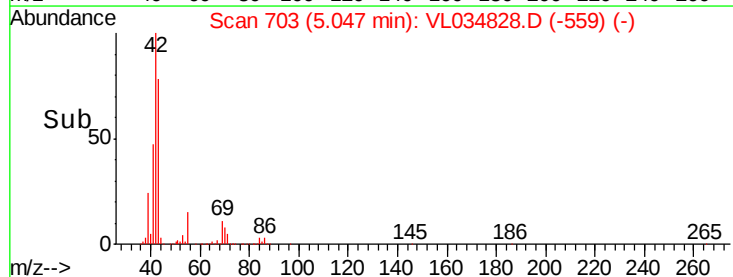
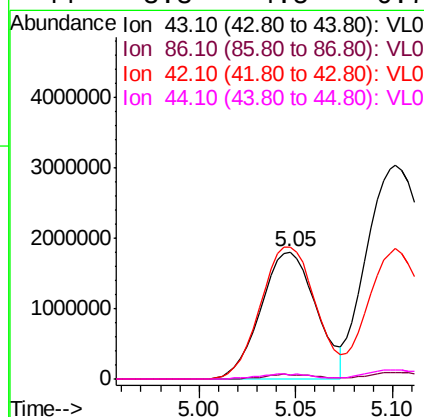
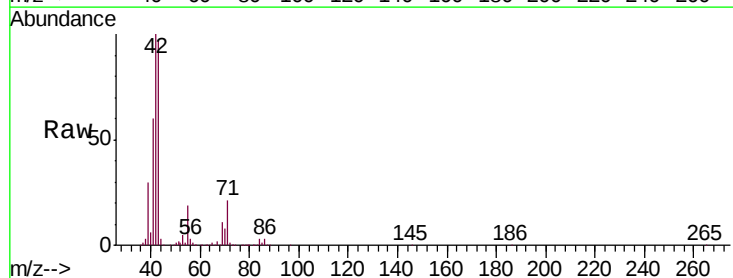
Instrument :
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 ClientSampleId :
 SS-5-4DL

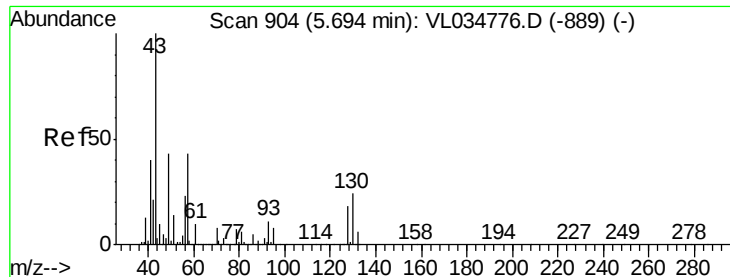
Tgt Ion: 41 Resp: 285272
 Ion Ratio Lower Upper
 41 100
 76 0.0 22.5 33.7#
 39 108.8 65.0 97.6#



#23
 Vinyl Acetate
 Concen: 24.523 ppbv
 RT: 5.05 min Scan# 703
 Delta R.T. -0.04 min
 Lab File: VL034828.D
 Acq: 6 Mar 2020 23:45

Tgt Ion: 43 Resp: 3615947
 Ion Ratio Lower Upper
 43 100
 86 3.4 5.9 8.9#
 42 103.4 8.2 12.2#
 44 3.3 4.5 6.7#

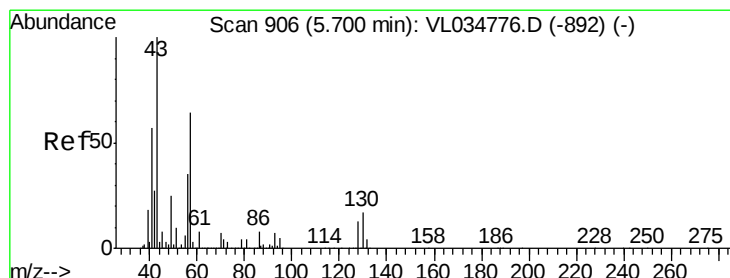
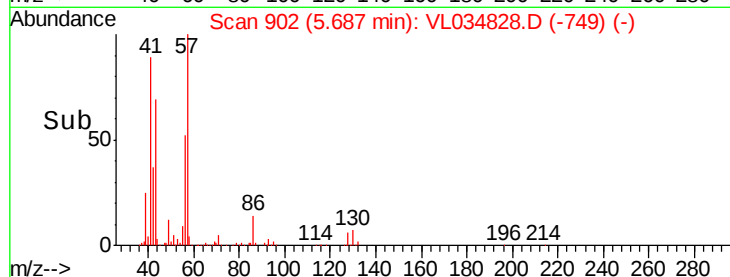
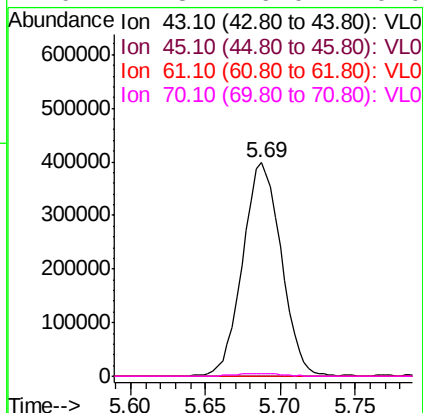
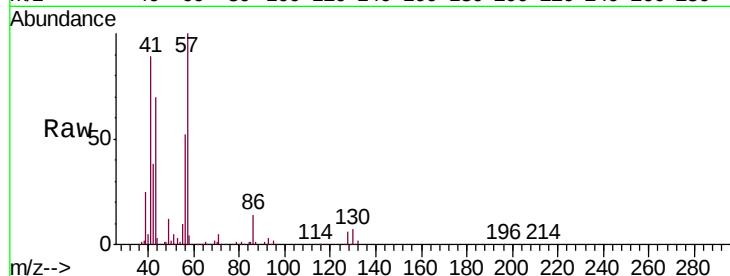




#25
Ethyl Acetate
Concen: 3.762 ppbv
RT: 5.69 min Scan# 902
Delta R.T. -0.01 min
Lab File: VL034828.D
Acq: 6 Mar 2020 23:45

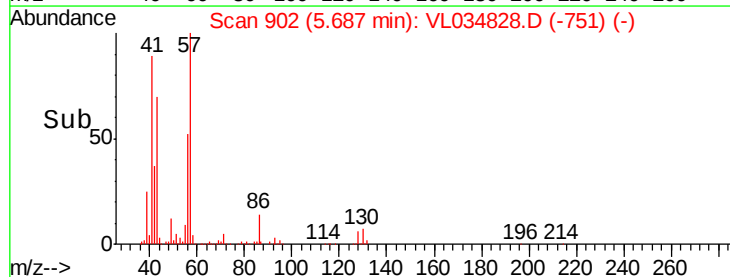
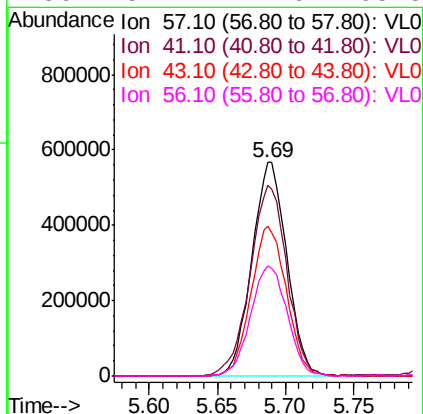
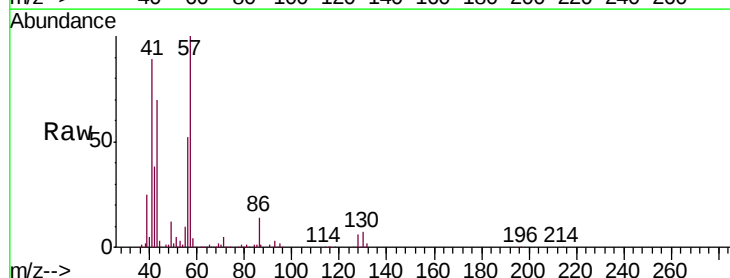
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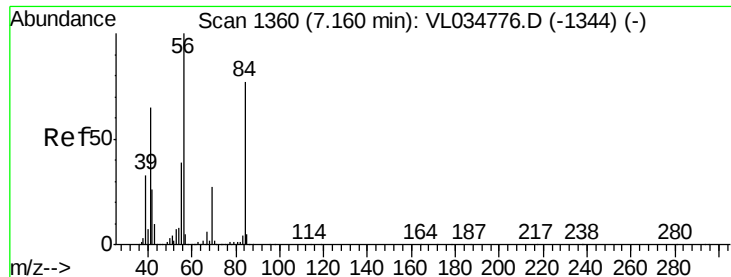
Tgt Ion:	43	Resp:	714901
Ion	Ratio	Lower	Upper
43	100		
45	0.2	8.2	12.4#
61	0.1	7.5	11.3#
70	1.8	6.0	9.0#



#26
Hexane
Concen: 12.161 ppbv
RT: 5.69 min Scan# 902
Delta R.T. -0.01 min
Lab File: VL034828.D
Acq: 6 Mar 2020 23:45

Tgt Ion:	57	Resp:	1009495
Ion	Ratio	Lower	Upper
57	100		
41	94.3	72.0	108.0
43	71.2	179.1	268.7#
56	54.4	42.6	63.8

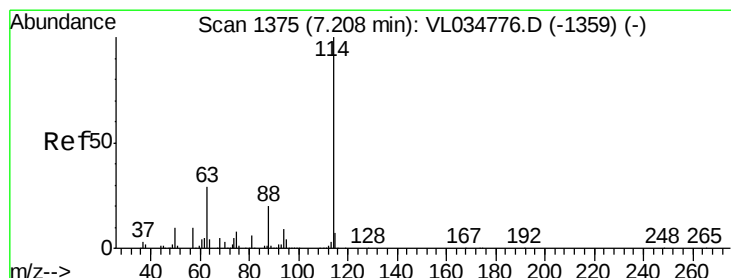
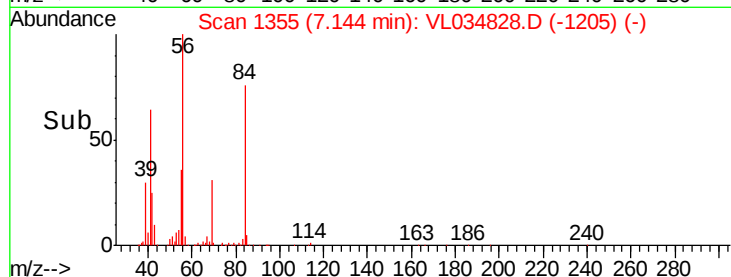
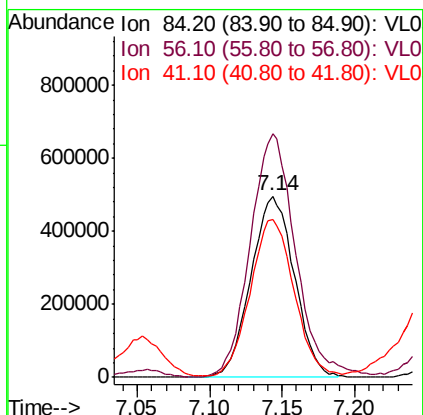
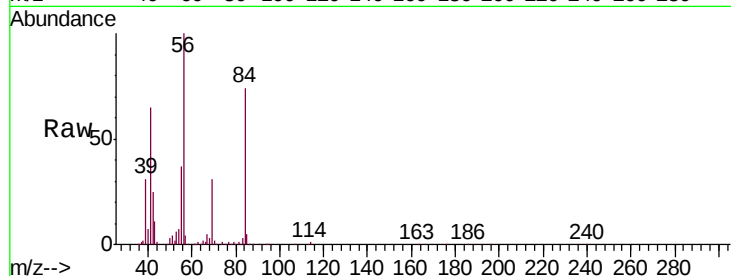




#30
Cyclohexane
Concen: 16.291 ppbv
RT: 7.14 min Scan# 1355
Delta R.T. -0.02 min
Lab File: VL034828.D
Acq: 6 Mar 2020 23:45

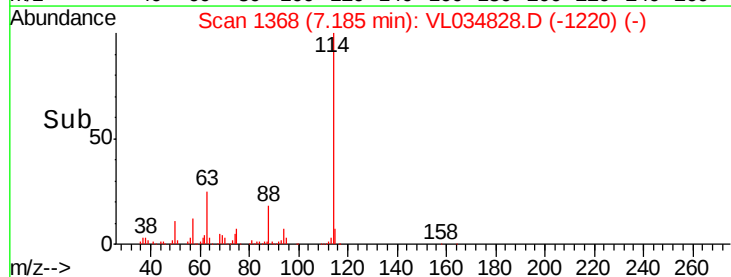
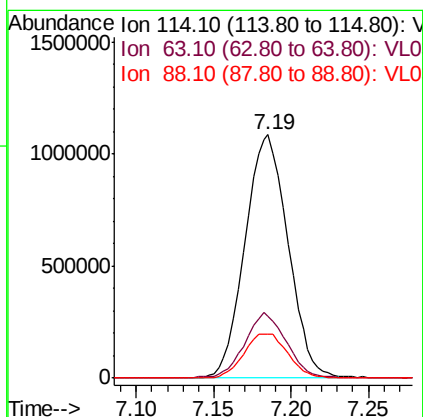
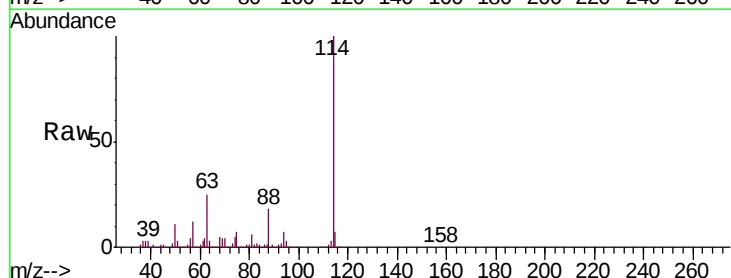
Instrument :
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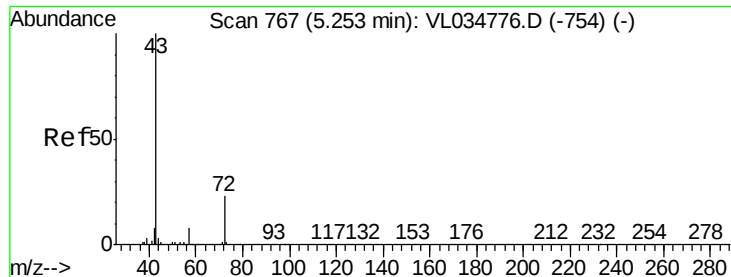
Tgt Ion: 84 Resp: 1034592
Ion Ratio Lower Upper
84 100
56 139.6 113.2 169.8
41 86.6 70.2 105.4



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.19 min Scan# 1368
Delta R.T. -0.02 min
Lab File: VL034828.D
Acq: 6 Mar 2020 23:45

Tgt Ion: 114 Resp: 2108074
Ion Ratio Lower Upper
114 100
63 26.3 23.6 35.4
88 18.7 15.8 23.8

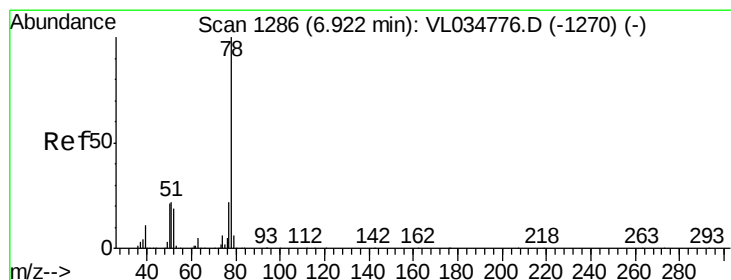
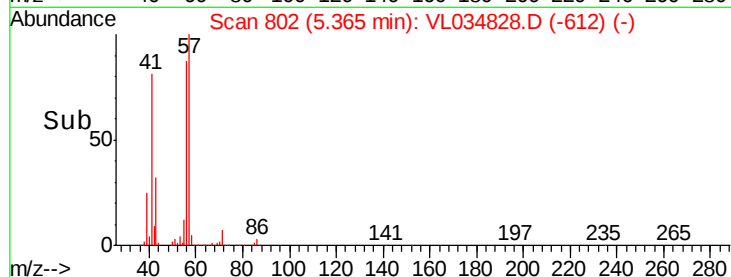
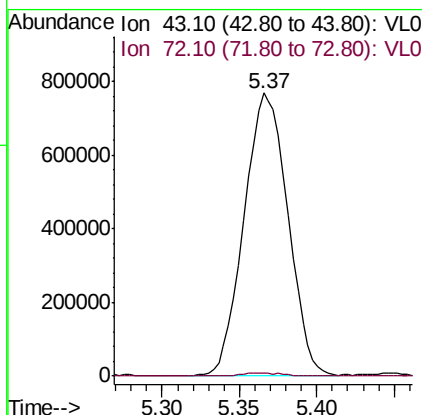
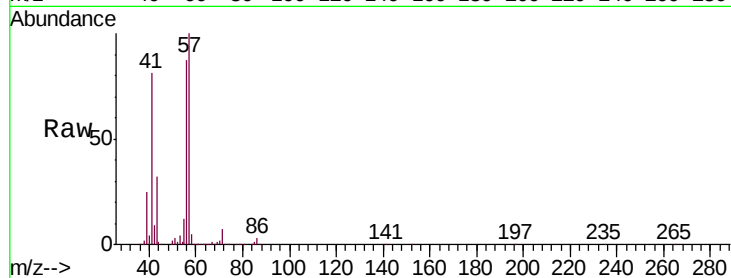




#34
2-Butanone
Concen: 11.018 ppbv
RT: 5.37 min Scan# 802
Delta R.T. 0.11 min
Lab File: VL034828.D
Acq: 6 Mar 2020 23:45

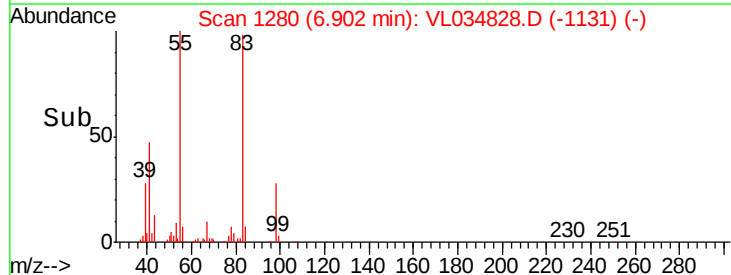
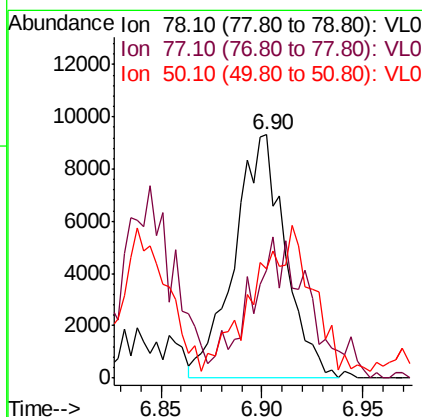
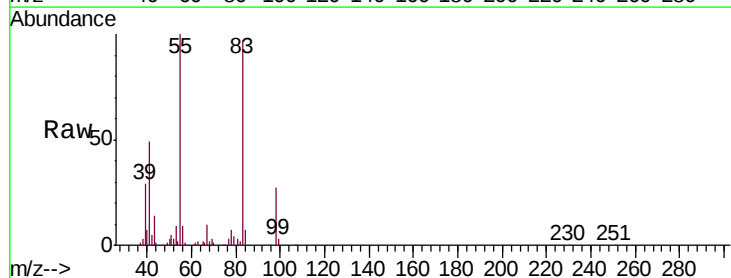
Instrument :
MSVOA_L
ClientSampleId :
SS-5-4DL

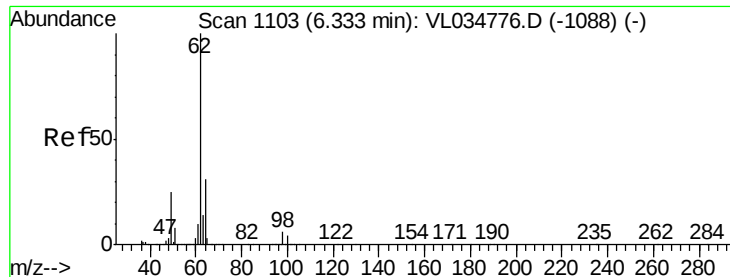
Tgt Ion: 43 Resp: 1511118
Ion Ratio Lower Upper
43 100
72 1.2 17.5 26.3#



#36
Benzene
Concen: 0.091 ppbv
RT: 6.90 min Scan# 1280
Delta R.T. -0.02 min
Lab File: VL034828.D
Acq: 6 Mar 2020 23:45

Tgt Ion: 78 Resp: 16363
Ion Ratio Lower Upper
78 100
77 33.1 18.0 27.0#
50 41.6 16.9 25.3#





#37

1,2-Dichloroethane

Concen: 0.031 ppbv

RT: 6.31 min Scan# 1096

Delta R.T. -0.02 min

Lab File: VL034828.D

Acq: 6 Mar 2020 23:45

Instrument :

MSVOA_L

ClientSampleId :

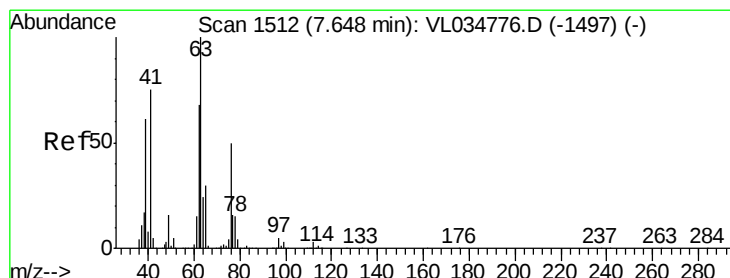
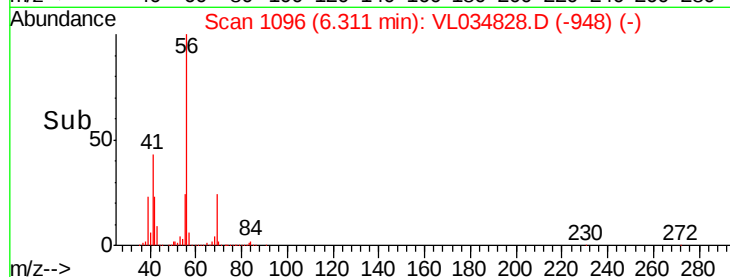
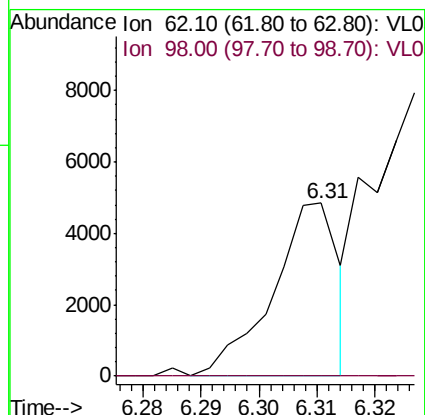
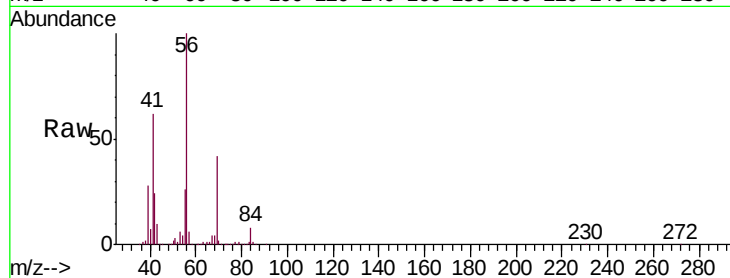
SS-5-4DL

Tgt Ion: 62 Resp: 3827

Ion Ratio Lower Upper

62 100

98 0.0 4.4 6.6#



#39

1,2-Dichloropropane

Concen: 0.151 ppbv

RT: 7.89 min Scan# 1587

Delta R.T. 0.24 min

Lab File: VL034828.D

Acq: 6 Mar 2020 23:45

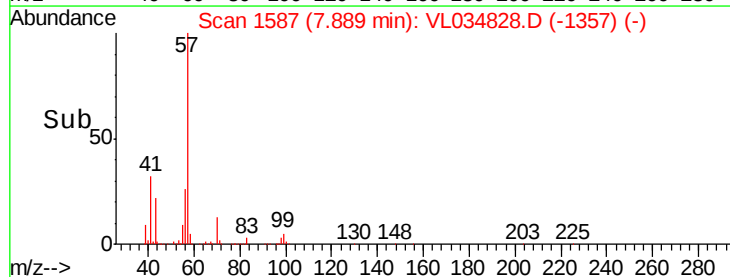
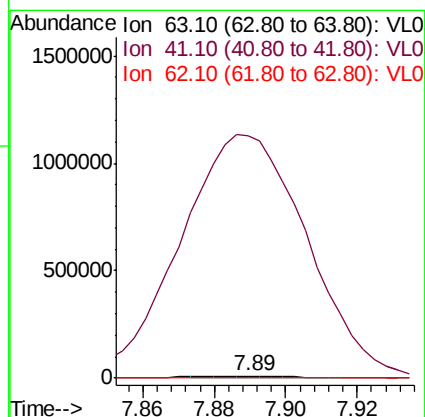
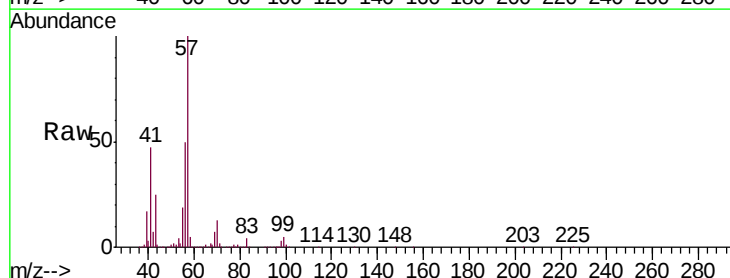
Tgt Ion: 63 Resp: 10983

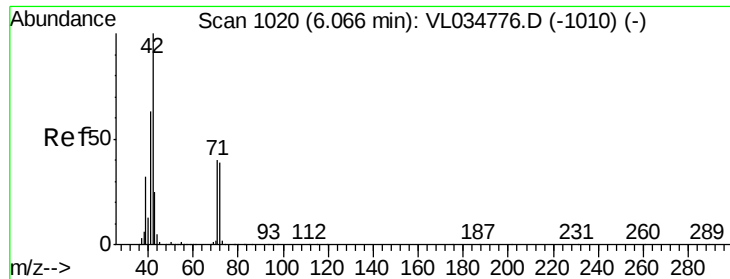
Ion Ratio Lower Upper

63 100

41 12043.1 60.3 90.5#

62 43.7 54.5 81.7#

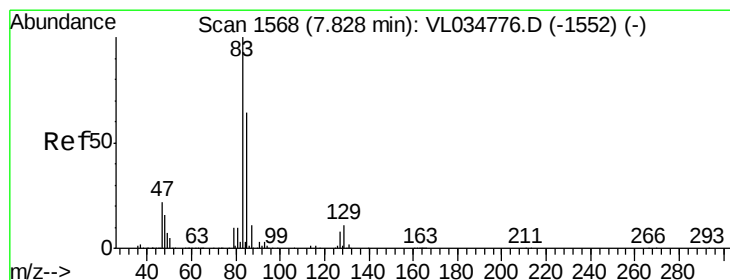
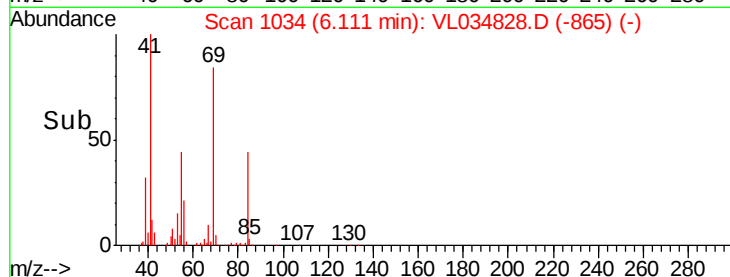
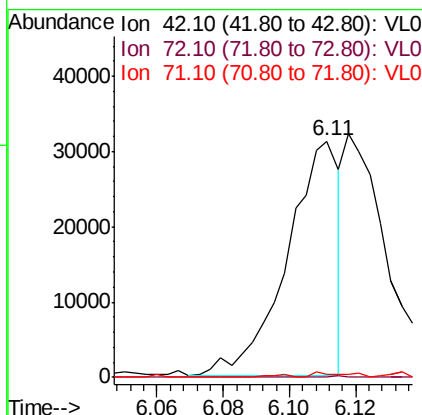
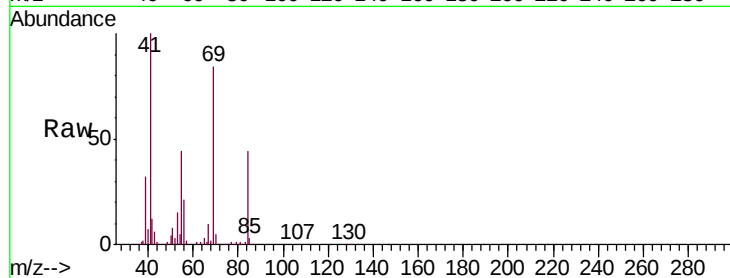




#41
Tetrahydrofuran
Concen: 0.486 ppbv
RT: 6.11 min Scan# 1034
Delta R.T. 0.04 min
Lab File: VL034828.D
Acq: 6 Mar 2020 23:45

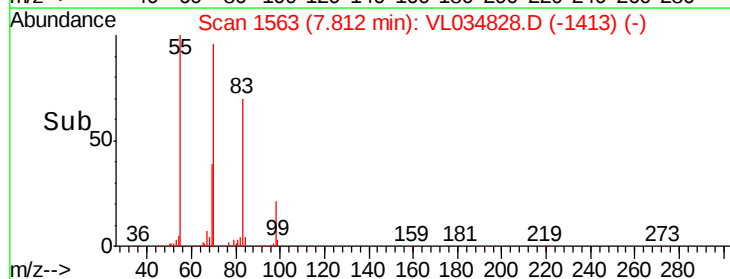
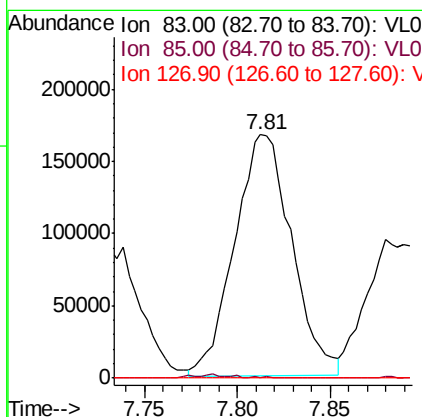
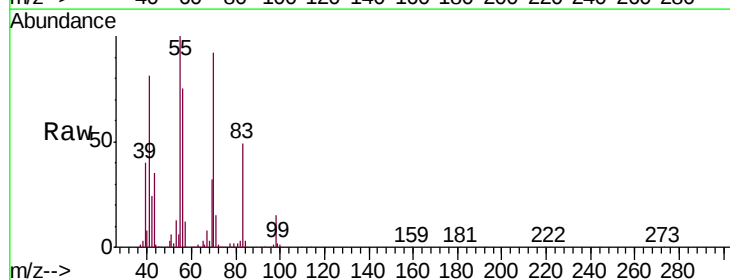
Instrument :
MSVOA_L
ClientSampleId :
SS-5-4DL

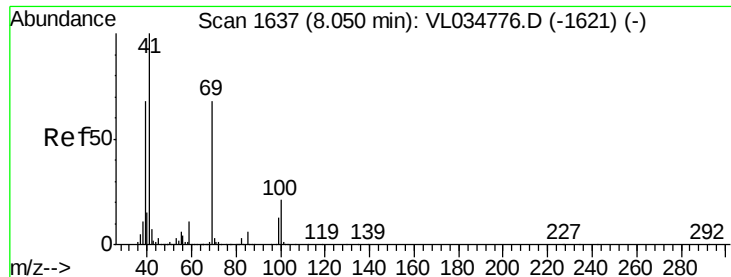
Tgt Ion: 42 Resp: 34006
Ion Ratio Lower Upper
42 100
72 0.0 32.0 48.0#
71 0.0 31.3 46.9#



#42
Bromodichloromethane
Concen: 2.297 ppbv
RT: 7.81 min Scan# 1563
Delta R.T. -0.02 min
Lab File: VL034828.D
Acq: 6 Mar 2020 23:45

Tgt Ion: 83 Resp: 357584
Ion Ratio Lower Upper
83 100
85 0.2 50.8 76.2#
127 0.0 6.5 9.7#

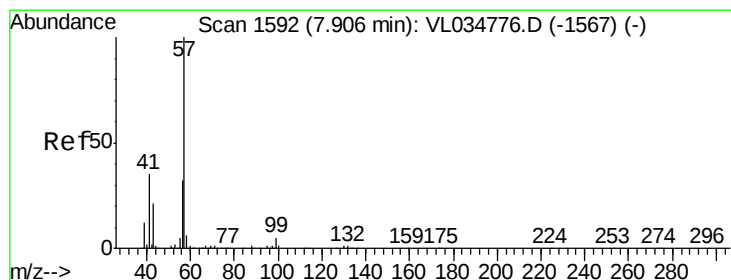
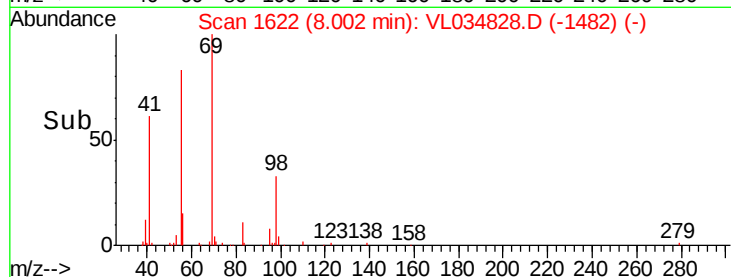
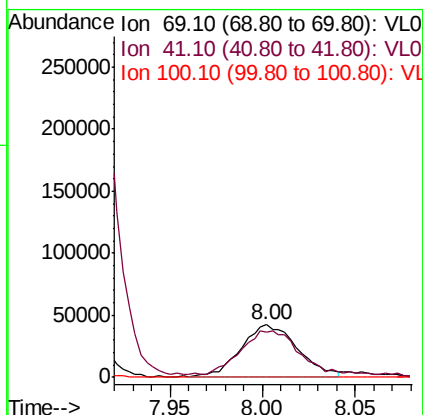
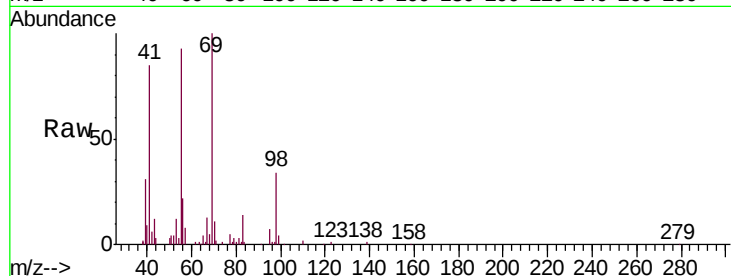




#43
Methyl Methacrylate
Concen: 1.139 ppbv
RT: 8.00 min Scan# 1622
Delta R.T. -0.05 min
Lab File: VL034828.D
Acq: 6 Mar 2020 23:45

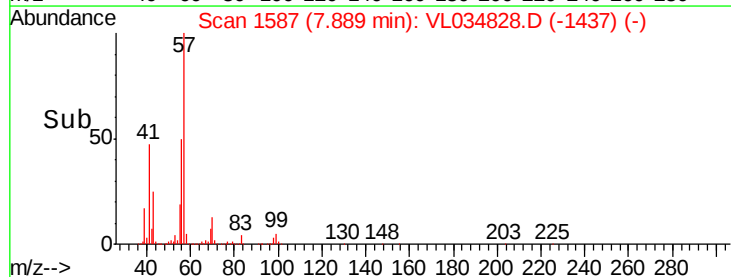
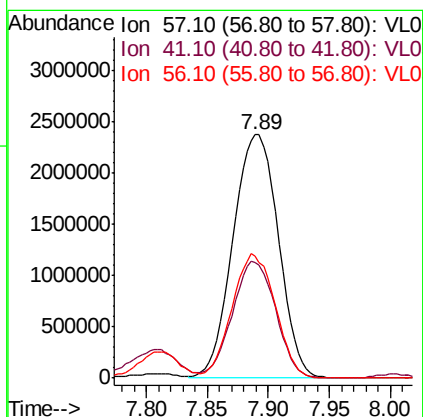
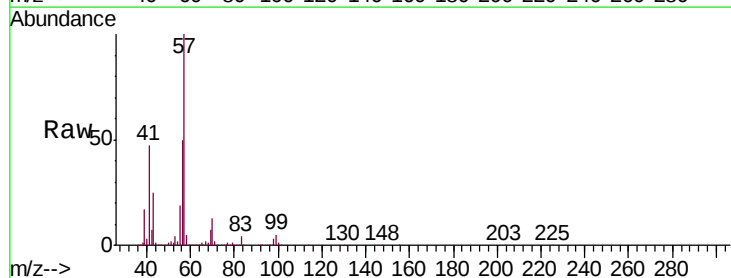
Instrument :
MSVOA_L
ClientSampled :
SS-5-4DL

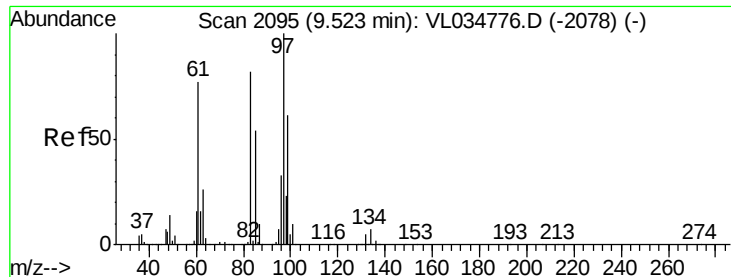
Tgt Ion: 69 Resp: 86963
Ion Ratio Lower Upper
69 100
41 195.3 121.6 182.4#
100 30.3 23.8 35.8



#44
2,2,4-Trimethylpentane
Concen: 19.395 ppbv
RT: 7.89 min Scan# 1587
Delta R.T. -0.02 min
Lab File: VL034828.D
Acq: 6 Mar 2020 23:45

Tgt Ion: 57 Resp: 6105265
Ion Ratio Lower Upper
57 100
41 45.8 27.4 41.0#
56 48.6 25.0 37.6#

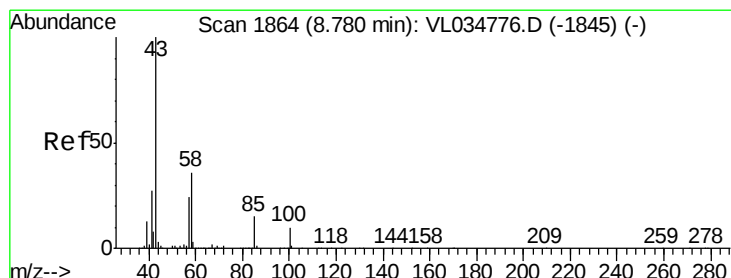
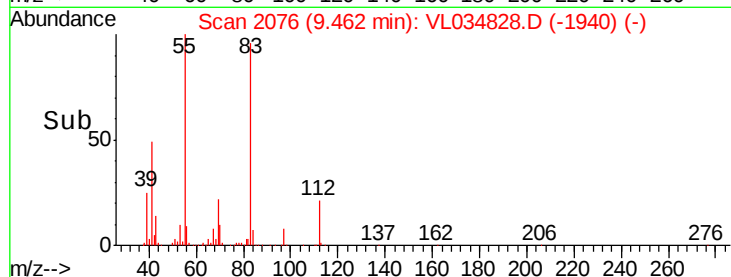
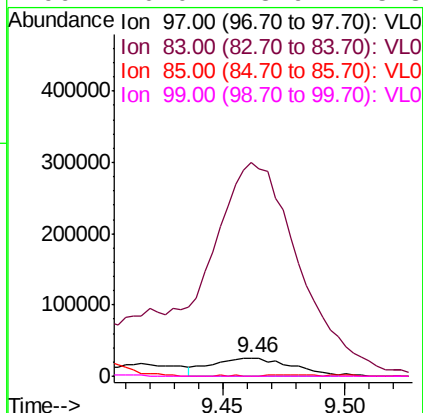
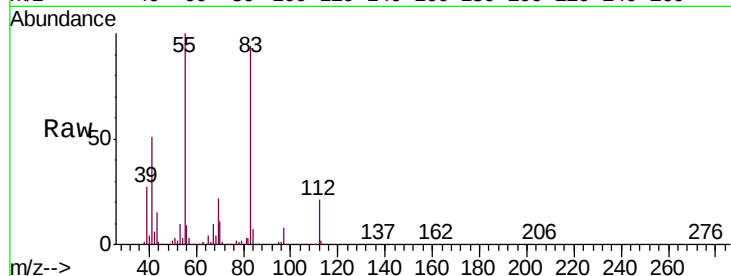




#47
 1,1,2-Trichloroethane
 Concen: 0.730 ppbv
 RT: 9.46 min Scan# 2076
 Delta R.T. -0.06 min
 Lab File: VL034828.D
 Acq: 6 Mar 2020 23:45

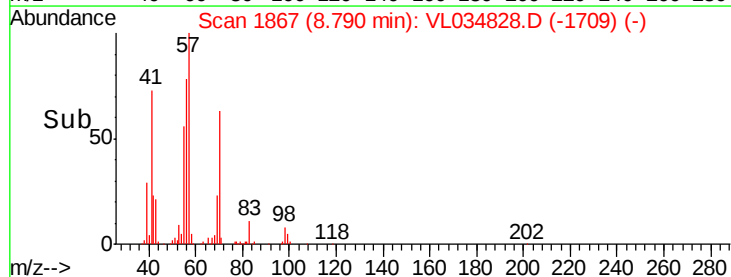
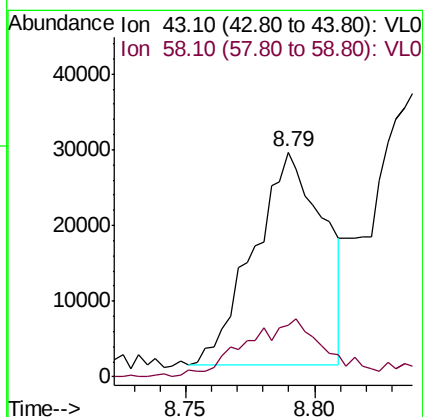
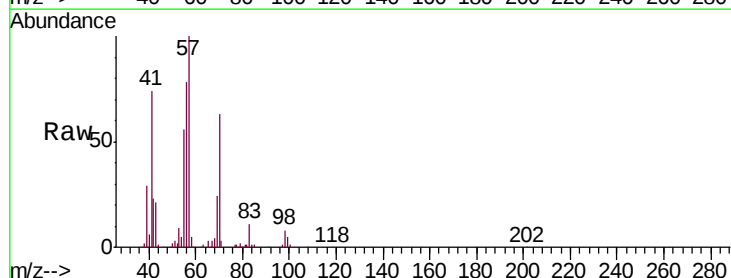
Instrument :
 MSVOA_L
 ClientSampleId :
 SS-5-4DL

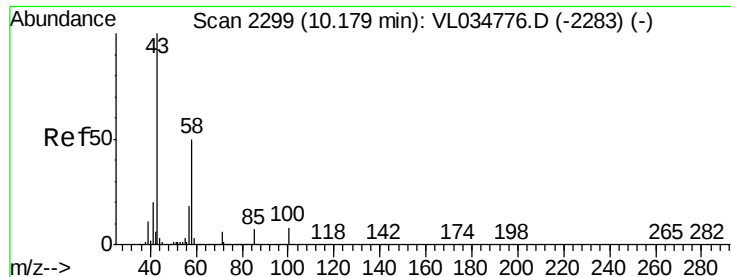
Tgt Ion: 97 Resp: 56044
 Ion Ratio Lower Upper
 97 100
 83 1008.3 65.2 97.8#
 85 0.0 43.6 65.4#
 99 0.0 48.9 73.3#



#50
 4-Methyl-2-Pentanone
 Concen: 0.268 ppbv
 RT: 8.79 min Scan# 1867
 Delta R.T. 0.01 min
 Lab File: VL034828.D
 Acq: 6 Mar 2020 23:45

Tgt Ion: 43 Resp: 52719
 Ion Ratio Lower Upper
 43 100
 58 0.0 28.7 43.1#

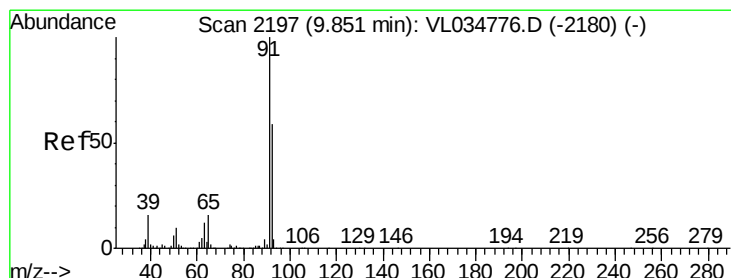
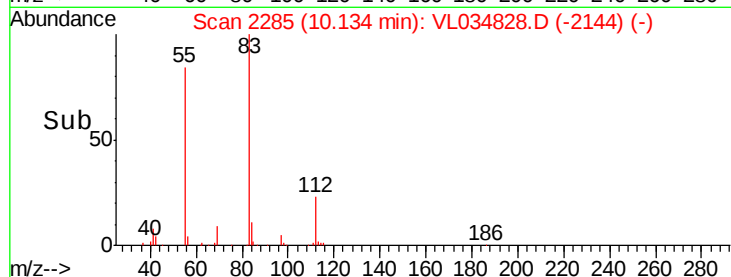
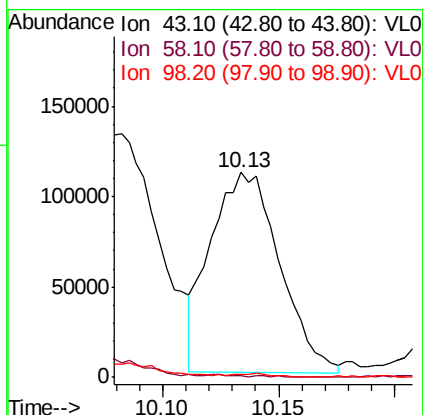
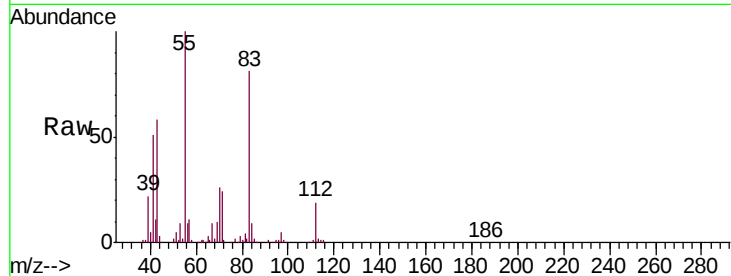




#51
2-Hexanone
Concen: 1.491 ppbv
RT: 10.13 min Scan# 2285
Delta R.T. -0.05 min
Lab File: VL034828.D
Acq: 6 Mar 2020 23:45

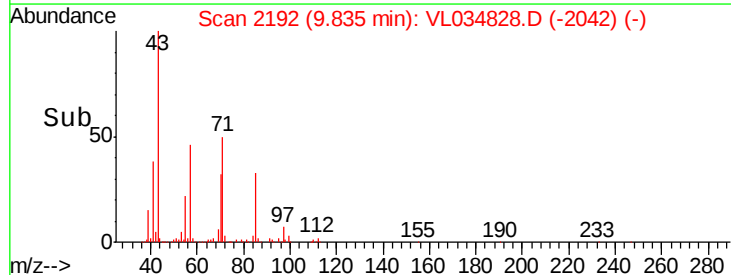
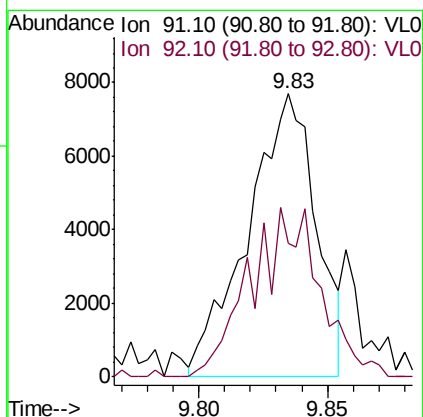
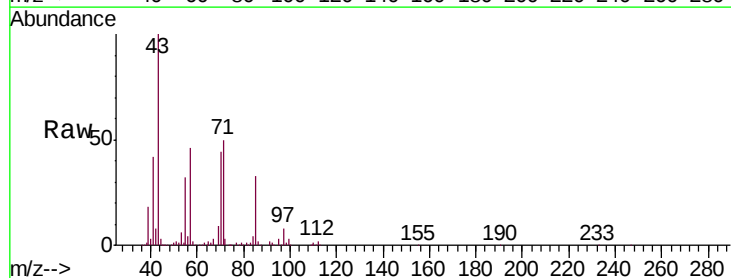
Instrument :
MSVOA_L
ClientSampleId :
SS-5-4DL

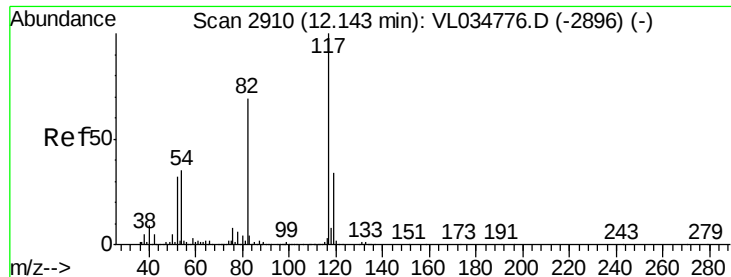
Tgt Ion: 43 Resp: 229817
Ion Ratio Lower Upper
43 100
58 0.0 38.6 58.0#
98 1.5 0.2 0.4#



#53
Toluene
Concen: 0.075 ppbv
RT: 9.83 min Scan# 2192
Delta R.T. -0.02 min
Lab File: VL034828.D
Acq: 6 Mar 2020 23:45

Tgt Ion: 91 Resp: 14263
Ion Ratio Lower Upper
91 100
92 60.2 48.2 72.2

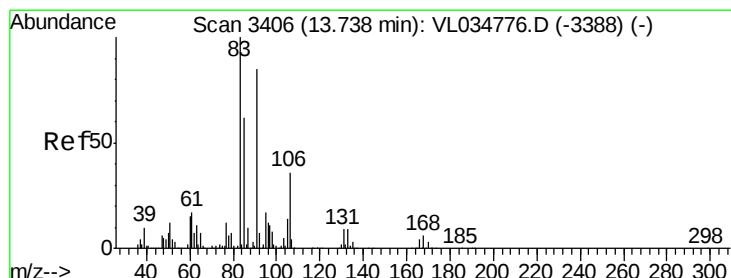
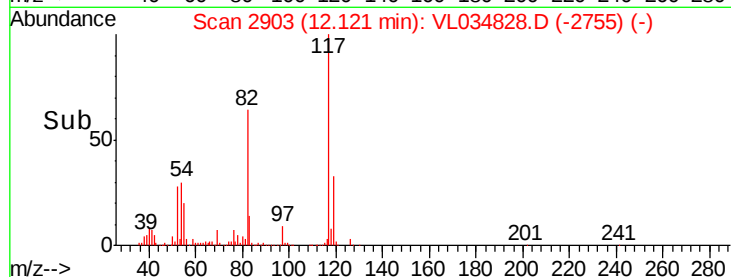
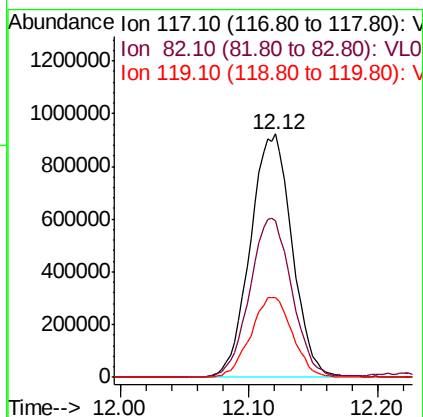
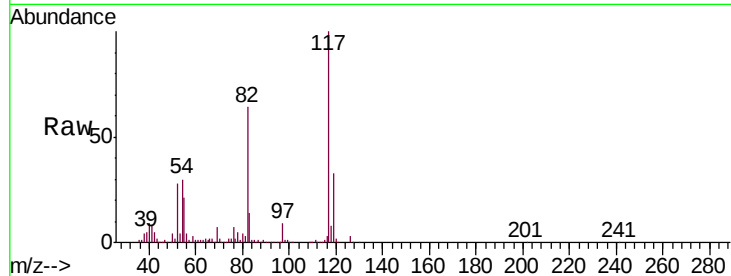




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.12 min Scan# 2903
Delta R.T. -0.02 min
Lab File: VL034828.D
Acq: 6 Mar 2020 23:45

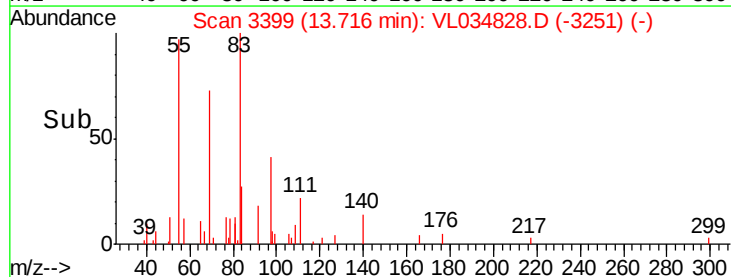
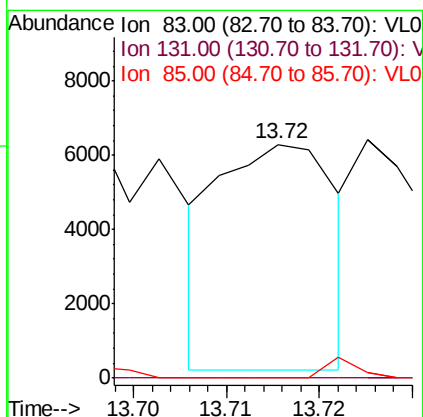
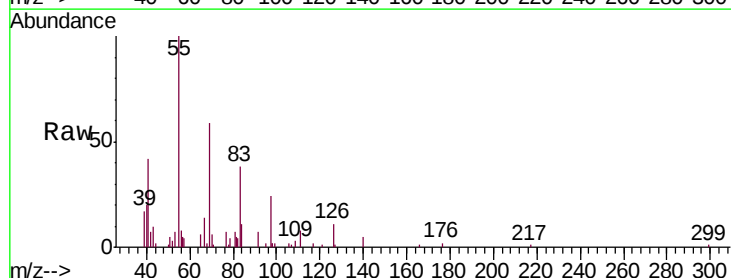
Instrument :
MSVOA_L
ClientSampleId :
SS-5-4DL

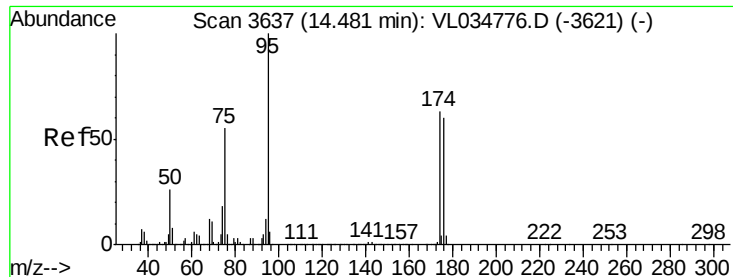
Tgt Ion:117 Resp: 2075230
Ion Ratio Lower Upper
117 100
82 66.2 53.9 80.9
119 33.1 25.0 37.4



#63
1,1,2,2-Tetrachloroethane
Concen: 0.030 ppbv
RT: 13.72 min Scan# 3399
Delta R.T. -0.02 min
Lab File: VL034828.D
Acq: 6 Mar 2020 23:45

Tgt Ion: 83 Resp: 5300
Ion Ratio Lower Upper
83 100
131 0.0 4.7 14.0#
85 0.0 32.9 98.7#





#68

1-Bromo-4-Fluorobenzene

Concen: 9.531 ppbv

RT: 14.45 min Scan# 3627

Delta R.T. -0.03 min

Lab File: VL034828.D

Acq: 6 Mar 2020 23:45

Instrument :

MSVOA_L

ClientSampleId :

SS-5-4DL

Tgt Ion: 95 Resp: 1649243

Ion Ratio Lower Upper

95 100

174 69.9 50.6 76.0

175 5.3 3.8 5.6

