

Data File : VL033717.D
Acq On : 17 May 2019 15:23
Operator : SY/AP
Sample : K2904-01DL 10X
Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
S-01DL

Quant Time: May 17 23:23:06 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL051719AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri May 17 08:15:41 2019
QLast Update : Fri May 17 08:15:41 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.76	49	1171413	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.29	114	2925578	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.24	117	2869654	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.57	95	2318085	9.96	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.60%

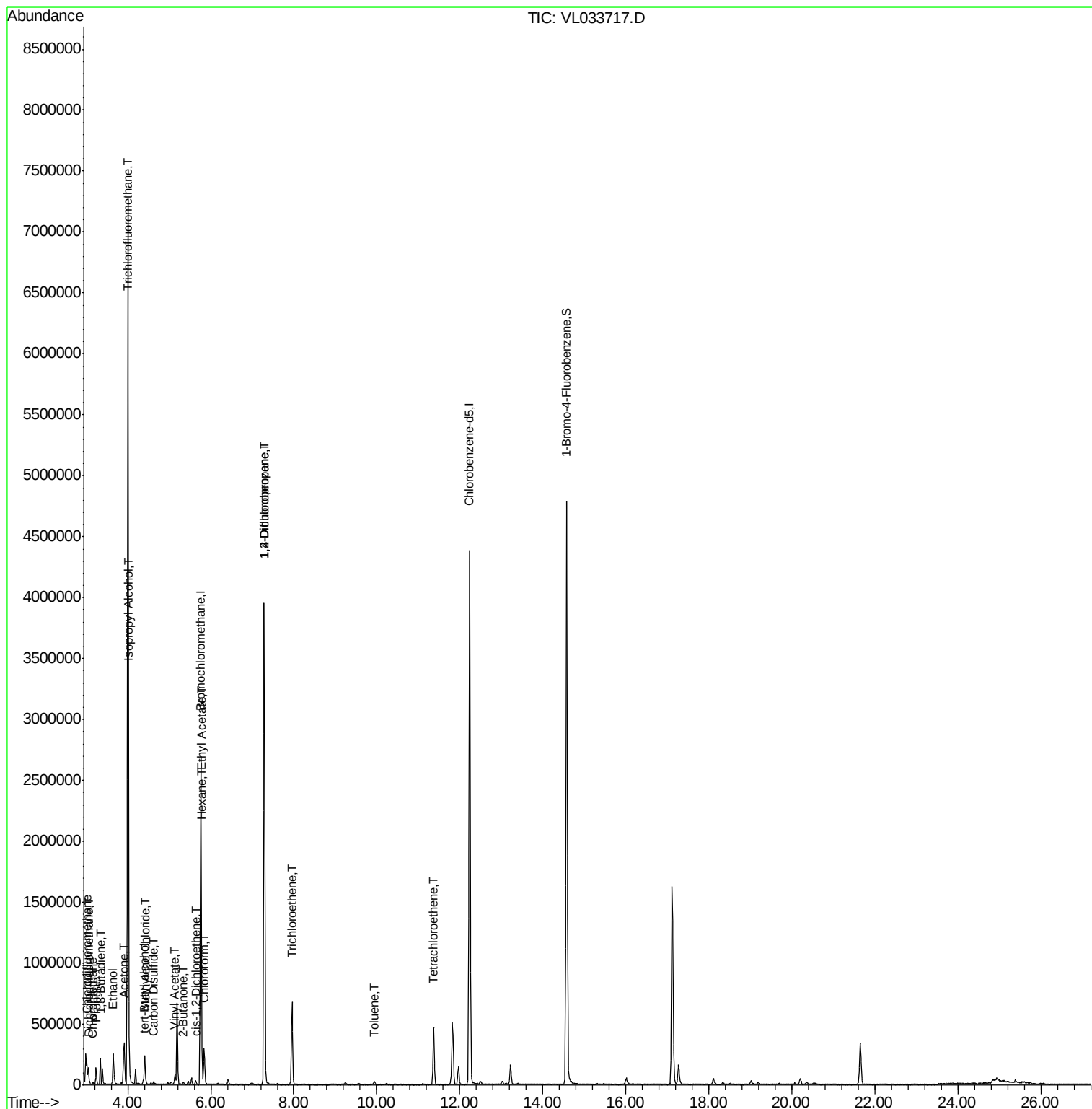
Target Compounds						Qvalue
2) Dichlorodifluoromethane	3.08	85	12556	0.051	ppbv	99
3) Chlorodifluoromethane	3.02	51	328958	2.452	ppbv #	80
4) Chloromethane	3.17	50	3297	0.043	ppbv #	81
9) Propene	3.24	41	34101	0.598	ppbv	89
11) Trichlorofluoromethane	4.00	101	4963699	21.067	ppbv	99
13) Ethanol	3.65	45	258369	14.006	ppbv	100
15) Acetone	3.90	43	376106	2.314	ppbv	95
16) 1,3-Butadiene	3.34	39	54061	0.835	ppbv #	12
17) tert-Butyl alcohol	4.38	59	27096	0.206	ppbv #	70
19) Isopropyl Alcohol	4.03	45	51455	0.491	ppbv #	60
20) Methylene Chloride	4.41	84	76001	1.215	ppbv	94
23) Vinyl Acetate	5.14	43	39840	0.186	ppbv #	21
25) Ethyl Acetate	5.78	43	64281	0.225	ppbv #	81
26) Hexane	5.78	57	84664	0.690	ppbv #	43
27) Carbon Disulfide	4.62	76	29412	0.175	ppbv #	75
29) Chloroform	5.84	83	201059	0.889	ppbv	99
31) cis-1,2-Dichloroethene	5.64	61	11650	0.096	ppbv #	84
34) 2-Butanone	5.34	43	19849	0.109	ppbv #	90
38) Trichloroethene	7.96	130	208024	2.107	ppbv	96
39) 1,2-Dichloropropane	7.29	63	716333	7.220	ppbv #	22
52) Tetrachloroethene	11.37	164	66336	0.709	ppbv	95
53) Toluene	9.94	91	11389	0.040	ppbv #	21

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

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Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.76 min Scan# 877

Delta R.T. -0.00 min

Lab File: VL033717.D

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MSVOA_L

ClientSampleId :

S-01DL

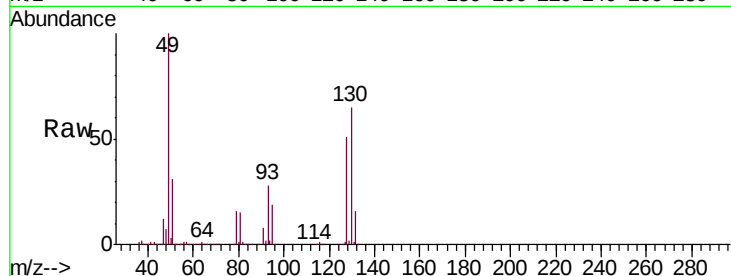
Tgt Ion: 49 Resp: 1171413

Ion Ratio Lower Upper

49 100

128 52.5 25.2 75.6

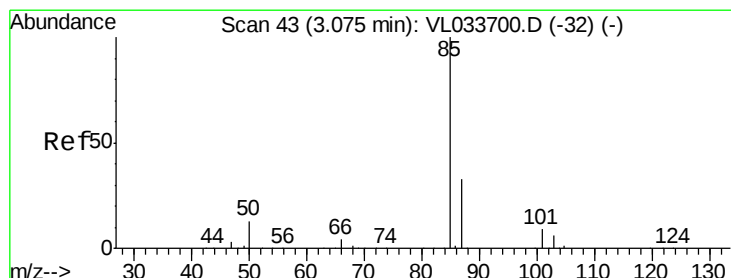
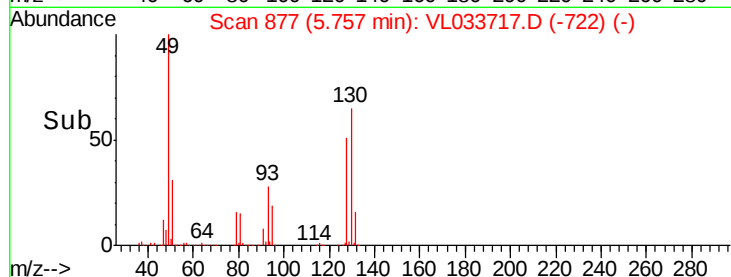
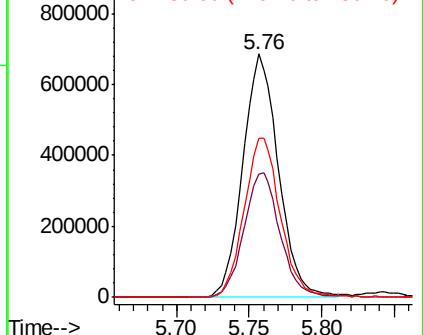
130 67.6 32.5 97.5



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: 0.051 ppbv

RT: 3.08 min Scan# 44

Delta R.T. 0.00 min

Lab File: VL033717.D

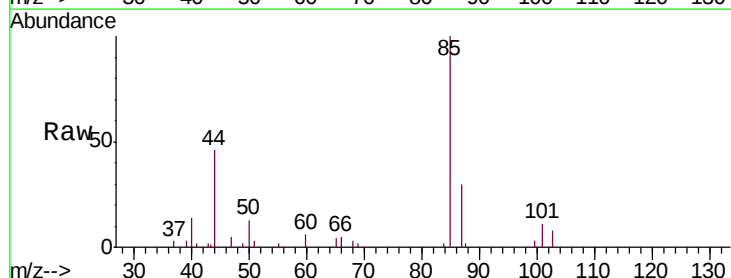
Acq: 17 May 2019 15:23

Tgt Ion: 85 Resp: 12556

Ion Ratio Lower Upper

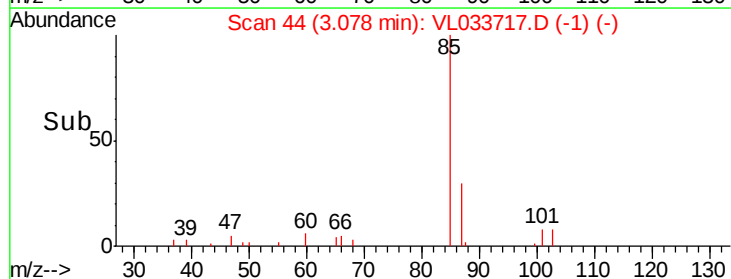
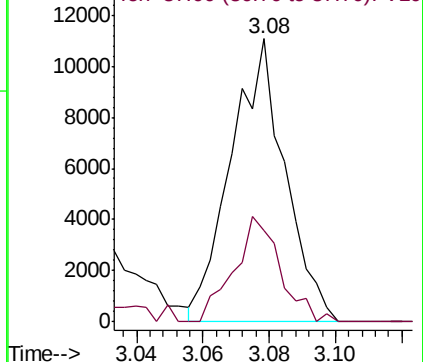
85 100

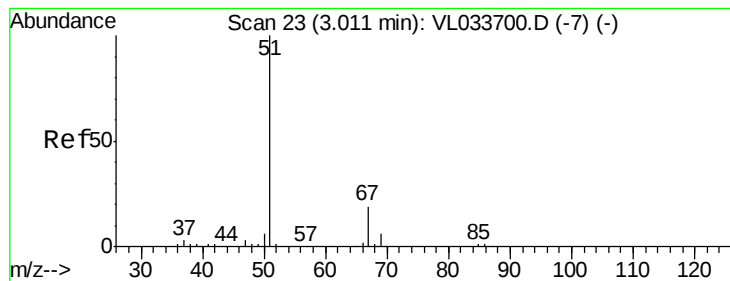
87 32.1 26.3 39.5



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 2.452 ppbv

RT: 3.02 min Scan# 25

Delta R.T. 0.01 min

Lab File: VL033717.D

Acq: 17 May 2019 15:23

Instrument :

MSVOA_L

ClientSampleId :

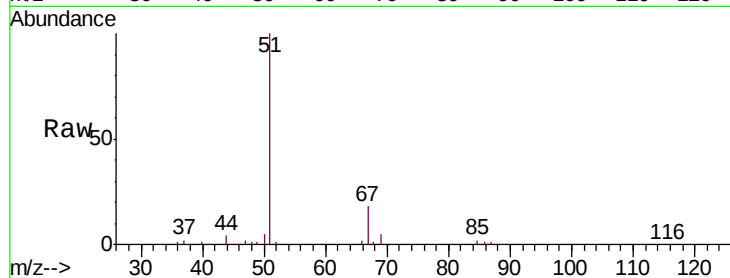
S-01DL

Tgt Ion: 51 Resp: 328958

Ion Ratio Lower Upper

51 100

67 10.4 15.6 23.4#



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0

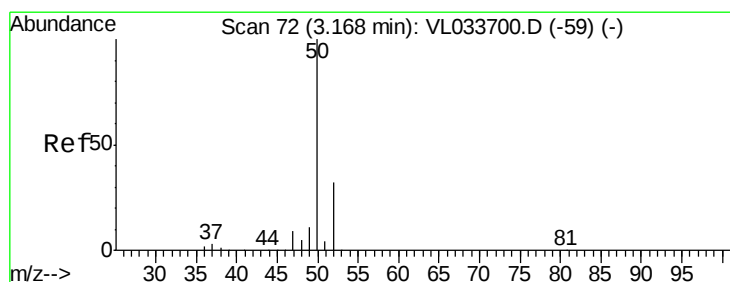
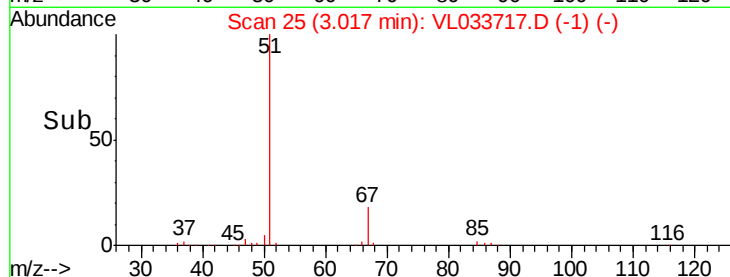
150000

100000

50000

0

Time-->



#4

Chloromethane

Concen: 0.043 ppbv

RT: 3.17 min Scan# 73

Delta R.T. 0.00 min

Lab File: VL033717.D

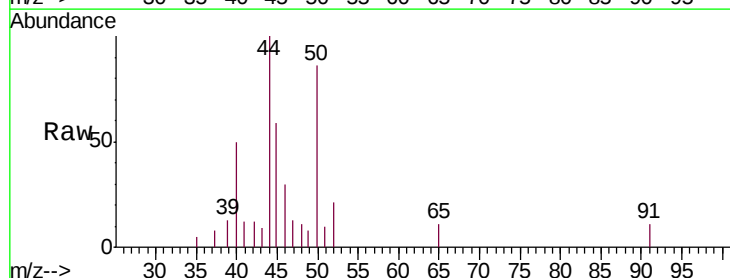
Acq: 17 May 2019 15:23

Tgt Ion: 50 Resp: 3297

Ion Ratio Lower Upper

50 100

52 21.4 25.7 38.5#



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0

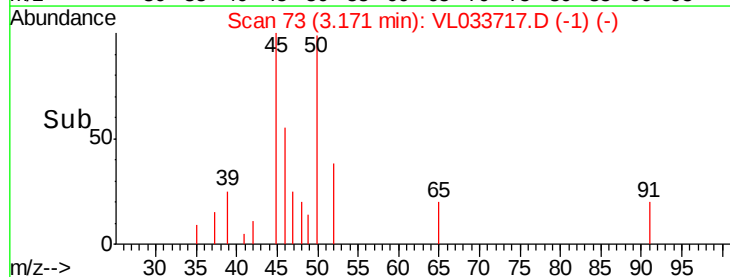
3000

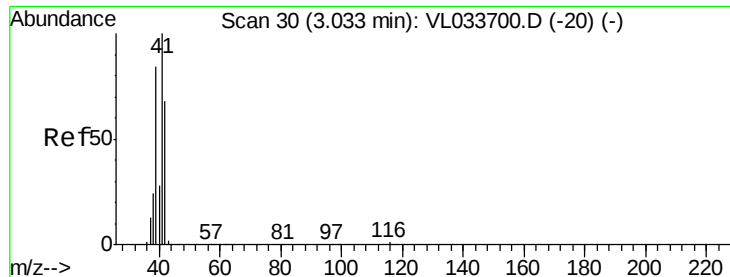
2000

1000

0

Time-->





#9

Propene

Concen: 0.598 ppbv

RT: 3.24 min Scan# 93

Delta R.T. 0.20 min

Lab File: VL033717.D

Acq: 17 May 2019 15:23

Instrument :

MSVOA_L

ClientSampleId :

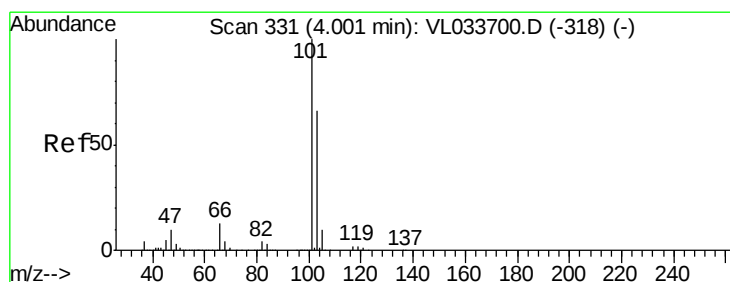
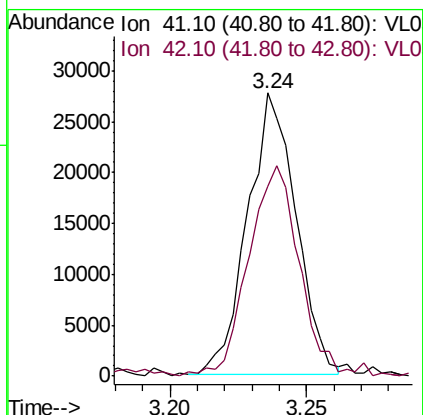
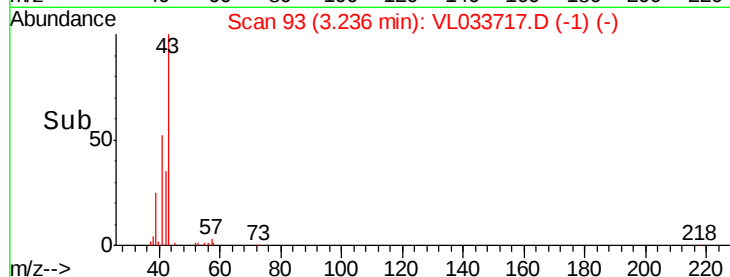
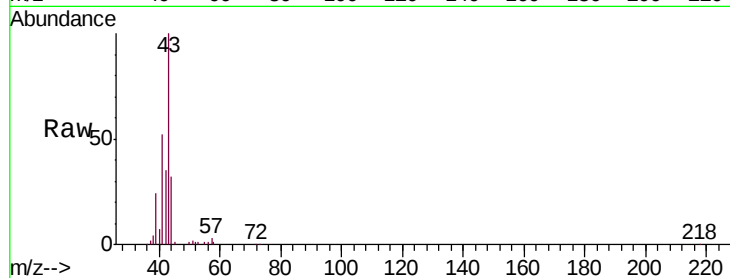
S-01DL

Tgt Ion: 41 Resp: 34101

Ion Ratio Lower Upper

41 100

42 79.5 56.1 84.1



#11

Trichlorofluoromethane

Concen: 21.067 ppbv

RT: 4.00 min Scan# 332

Delta R.T. 0.00 min

Lab File: VL033717.D

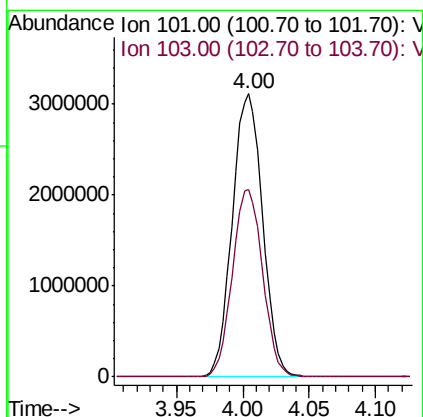
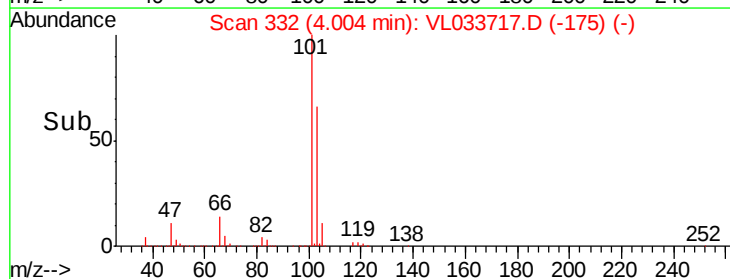
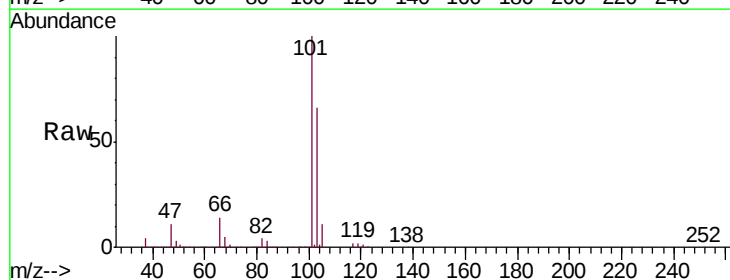
Acq: 17 May 2019 15:23

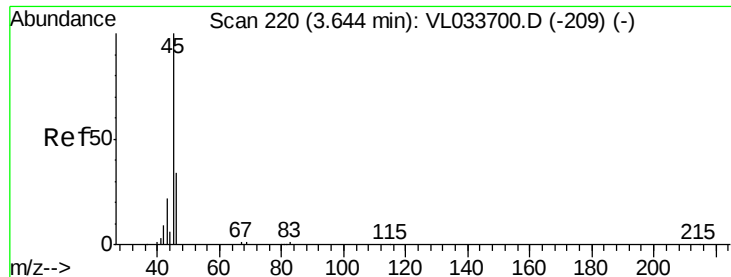
Tgt Ion: 101 Resp: 4963699

Ion Ratio Lower Upper

101 100

103 66.4 52.6 78.8





#13

Ethanol

Concen: 14.006 ppbv

RT: 3.65 min Scan# 222

Delta R.T. 0.01 min

Lab File: VL033717.D

Acq: 17 May 2019 15:23

Instrument :

MSVOA_L

ClientSampleId :

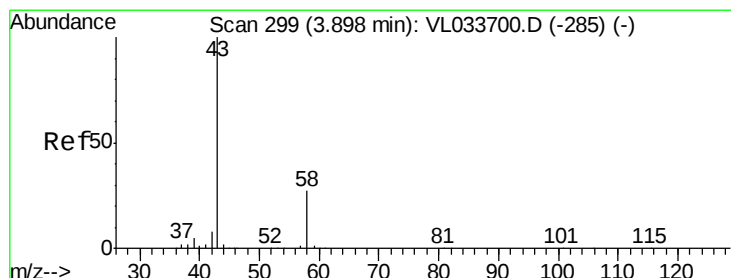
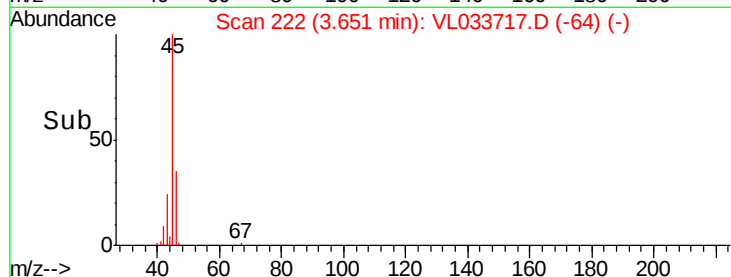
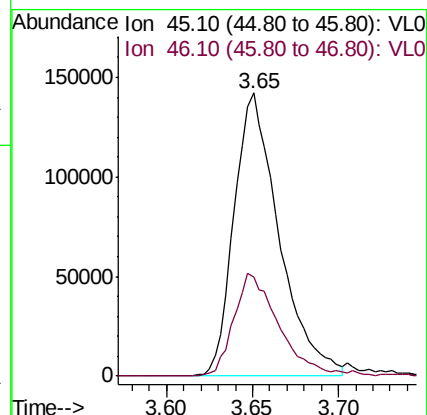
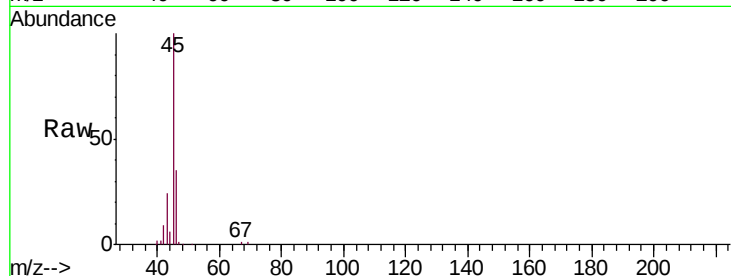
S-01DL

Tgt Ion: 45 Resp: 258369

Ion Ratio Lower Upper

45 100

46 37.2 14.8 59.0



#15

Acetone

Concen: 2.314 ppbv

RT: 3.90 min Scan# 300

Delta R.T. 0.00 min

Lab File: VL033717.D

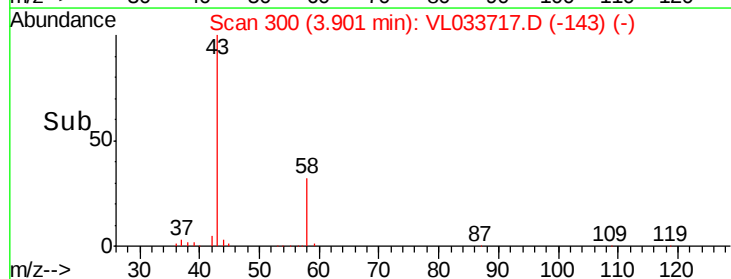
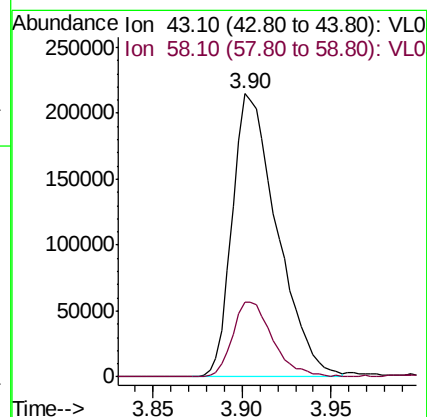
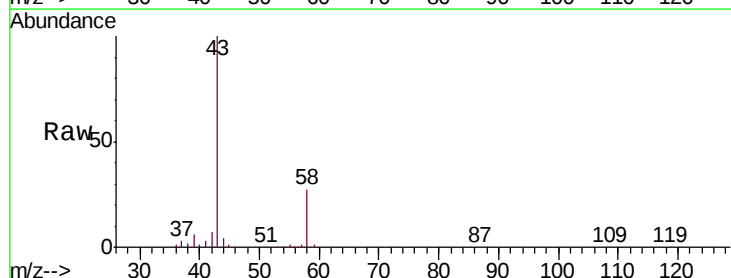
Acq: 17 May 2019 15:23

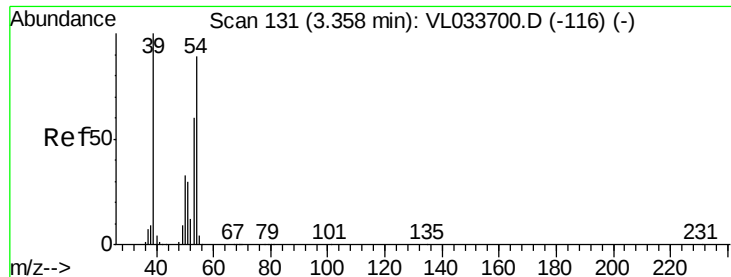
Tgt Ion: 43 Resp: 376106

Ion Ratio Lower Upper

43 100

58 23.9 21.3 31.9

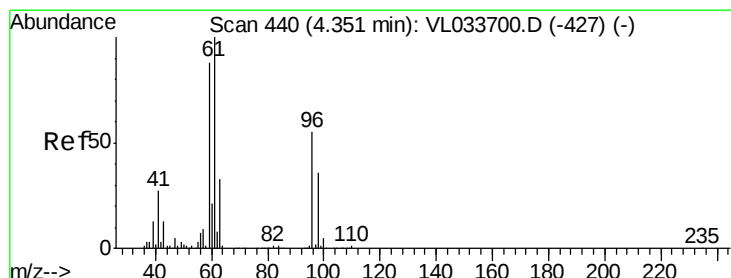
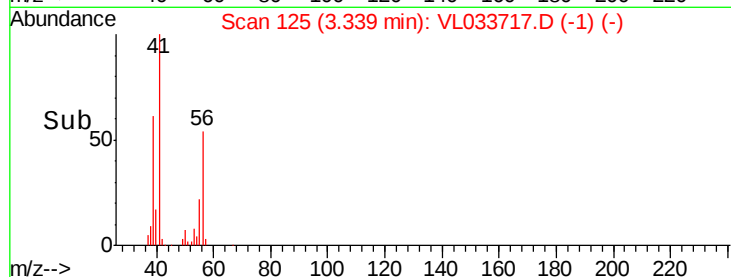
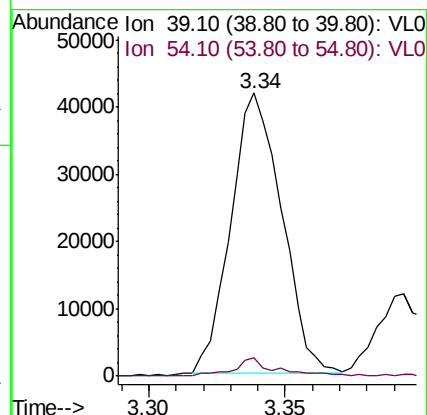
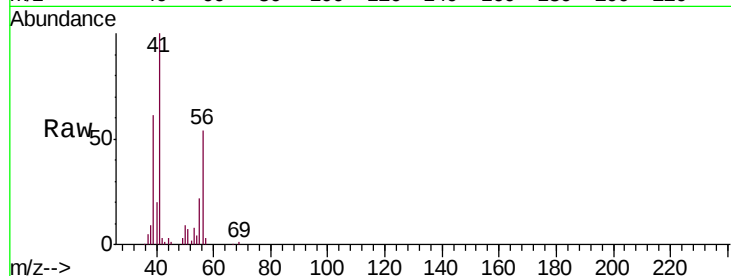




#16
 1,3-Butadiene
 Concen: 0.835 ppbv
 RT: 3.34 min Scan# 125
 Delta R.T. -0.02 min
 Lab File: VL033717.D
 Acq: 17 May 2019 15:23

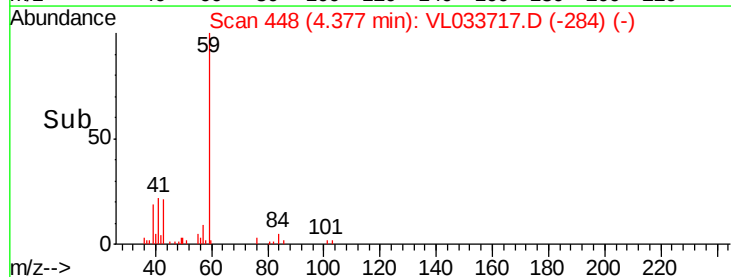
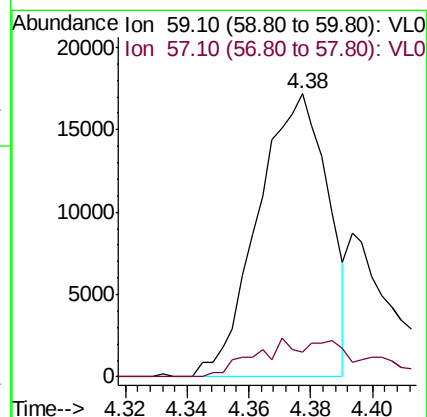
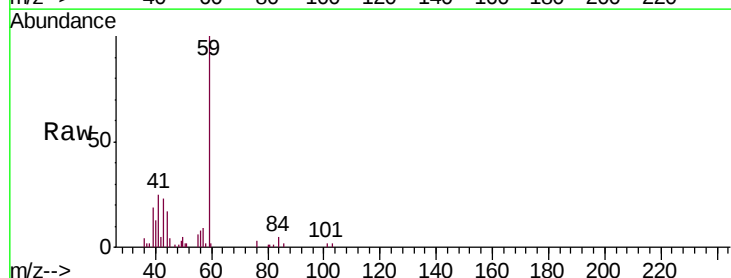
Instrument :
 MSVOA_L
 ClientSampleId :
 S-01DL

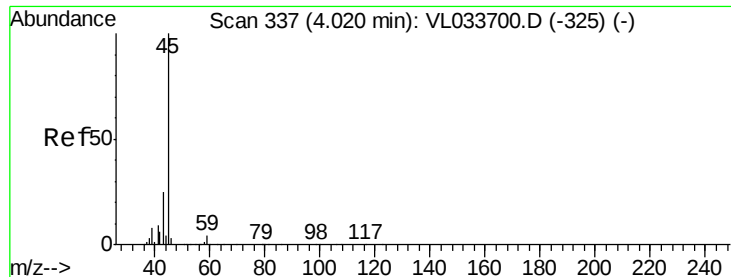
Tgt Ion: 39 Resp: 54061
 Ion Ratio Lower Upper
 39 100
 54 5.3 69.0 103.6#



#17
 tert-Butyl alcohol
 Concen: 0.206 ppbv
 RT: 4.38 min Scan# 448
 Delta R.T. 0.03 min
 Lab File: VL033717.D
 Acq: 17 May 2019 15:23

Tgt Ion: 59 Resp: 27096
 Ion Ratio Lower Upper
 59 100
 57 21.8 8.4 12.6#





#19

Isopropyl Alcohol

Concen: 0.491 ppbv

RT: 4.03 min Scan# 339

Delta R.T. 0.01 min

Lab File: VL033717.D

Acq: 17 May 2019 15:23

Instrument :

MSVOA_L

ClientSampleId :

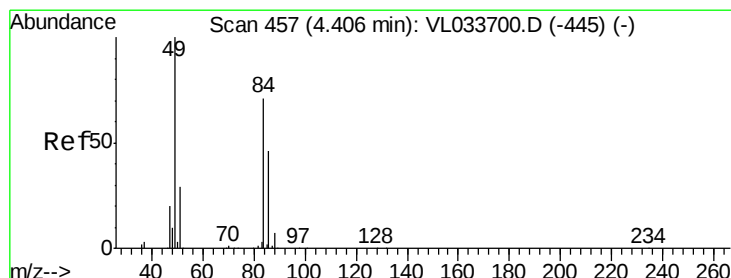
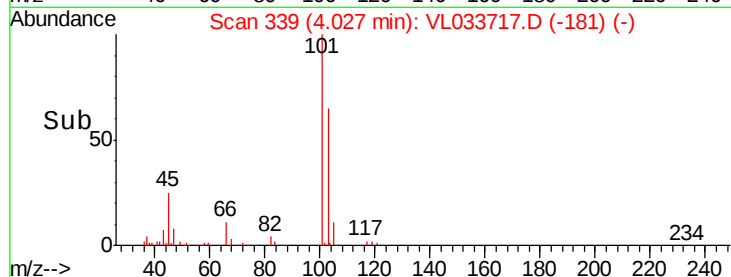
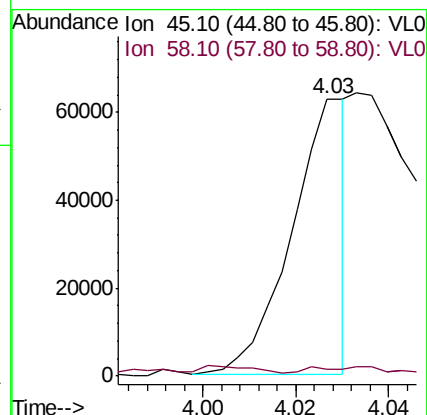
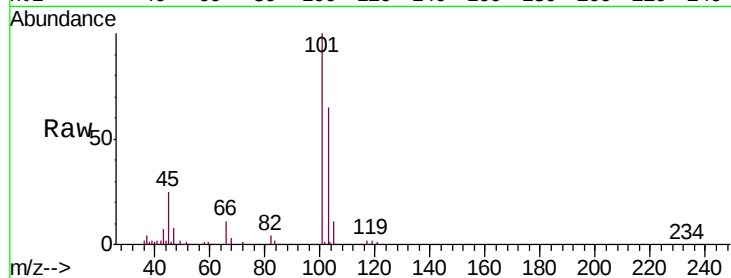
S-01DL

Tgt Ion: 45 Resp: 51455

Ion Ratio Lower Upper

45 100

58 16.2 1.6 2.4#



#20

Methylene Chloride

Concen: 1.215 ppbv

RT: 4.41 min Scan# 458

Delta R.T. 0.00 min

Lab File: VL033717.D

Acq: 17 May 2019 15:23

Tgt Ion: 84 Resp: 76001

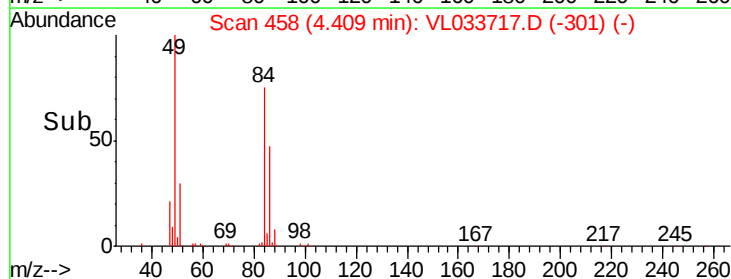
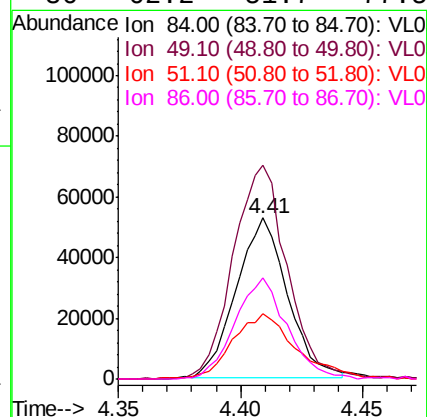
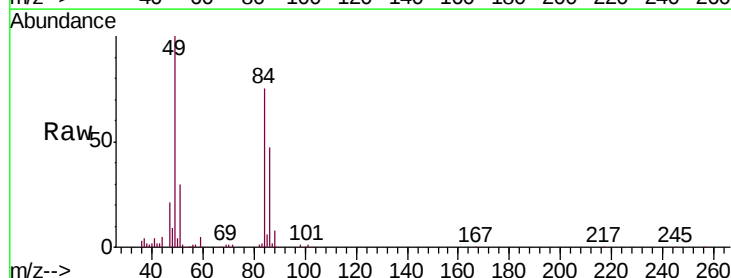
Ion Ratio Lower Upper

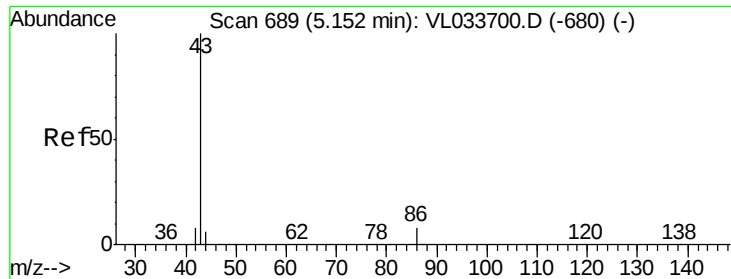
84 100

49 131.0 112.8 169.2

51 39.7 33.4 50.0

86 62.2 51.7 77.5





#23

Vinyl Acetate

Concen: 0.186 ppbv

RT: 5.14 min Scan# 685

Delta R.T. -0.01 min

Lab File: VL033717.D

Acq: 17 May 2019 15:23

Instrument :

MSVOA_L

ClientSampleId :

S-01DL

Tgt Ion: 43 Resp: 39840

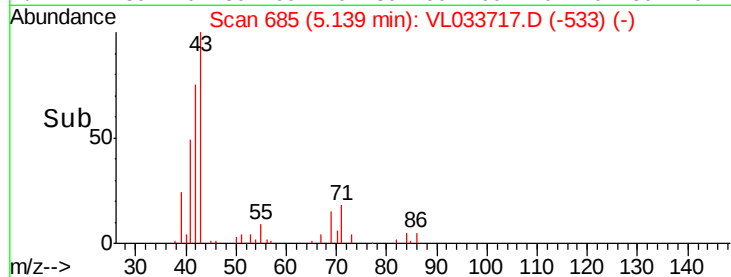
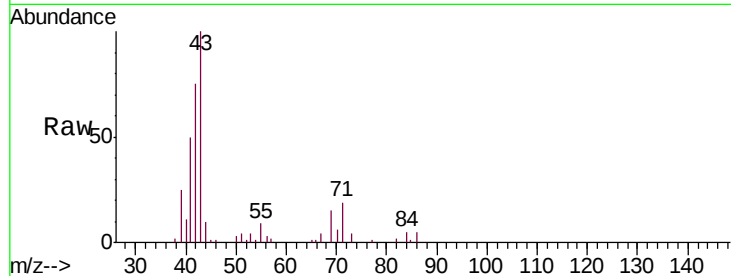
Ion Ratio Lower Upper

43 100

86 4.7 6.0 9.0#

42 74.2 7.5 11.3#

44 2.4 4.4 6.6#

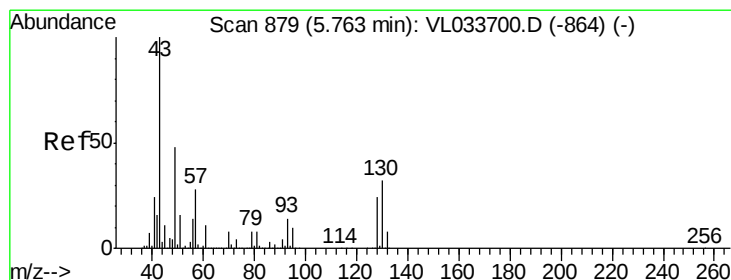
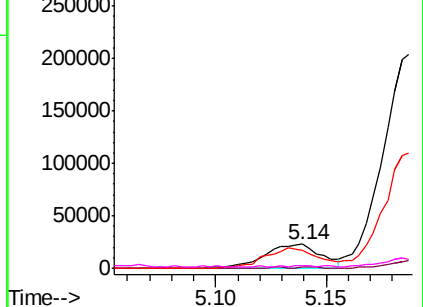


Abundance Ion 43.10 (42.80 to 43.80): VL0

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: 0.225 ppbv

RT: 5.78 min Scan# 883

Delta R.T. 0.01 min

Lab File: VL033717.D

Acq: 17 May 2019 15:23

Tgt Ion: 43 Resp: 64281

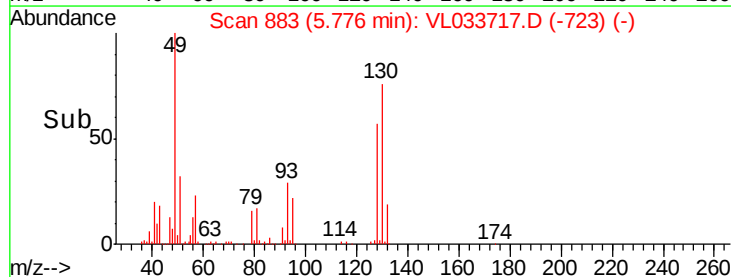
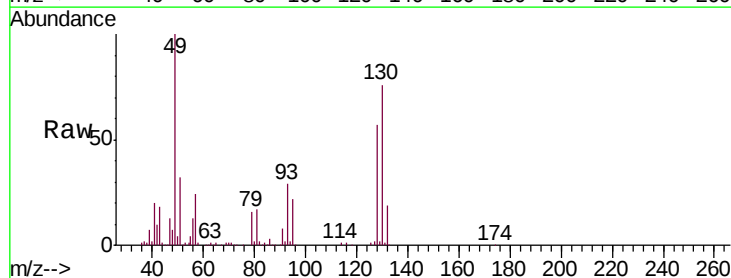
Ion Ratio Lower Upper

43 100

45 2.3 7.9 11.9#

61 2.3 7.7 11.5#

70 2.4 5.8 8.6#

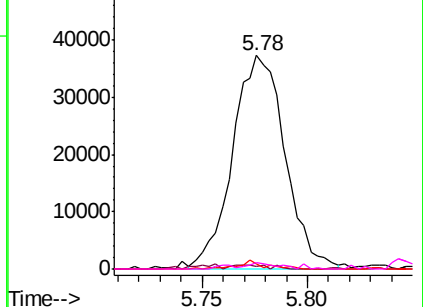


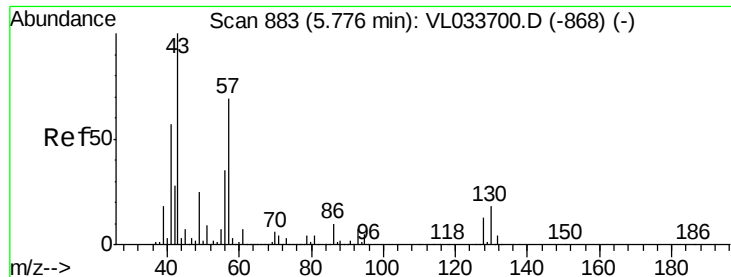
Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 45.10 (44.80 to 45.80): VL0

Ion 61.10 (60.80 to 61.80): VL0

Ion 70.10 (69.80 to 70.80): VL0

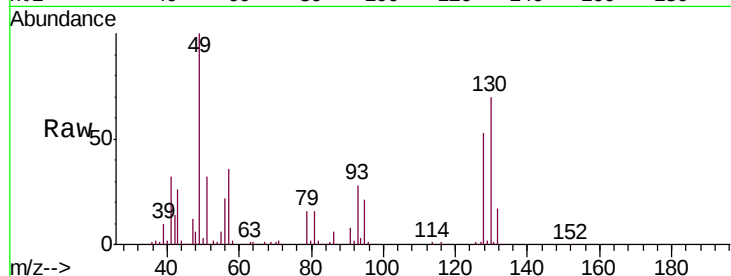




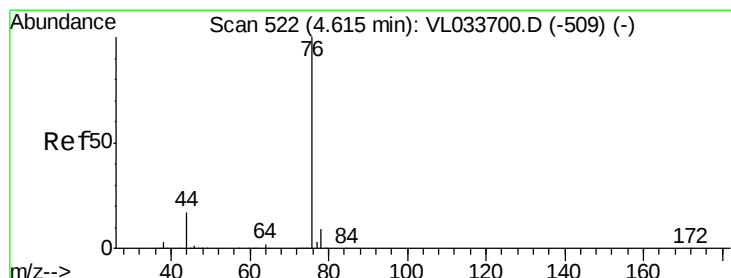
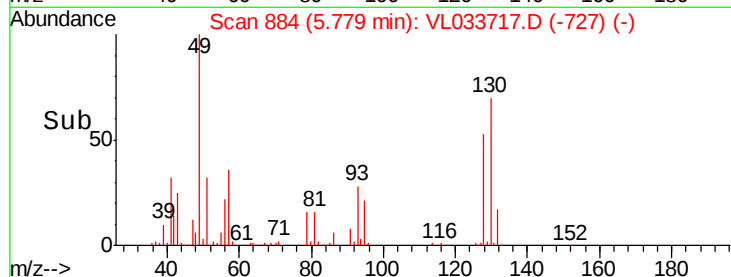
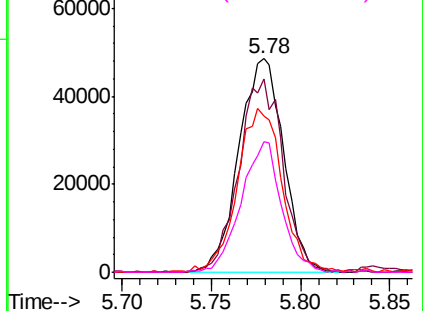
#26
Hexane
Concen: 0.690 ppbv
RT: 5.78 min Scan# 884
Delta R.T. 0.00 min
Lab File: VL033717.D
Acq: 17 May 2019 15:23

Instrument :
MSVOA_L
ClientSampleId :
S-01DL

Tgt Ion: 57 Resp: 84664
Ion Ratio Lower Upper
57 100
41 89.5 69.8 104.6
43 77.9 181.8 272.6#
56 55.3 42.1 63.1

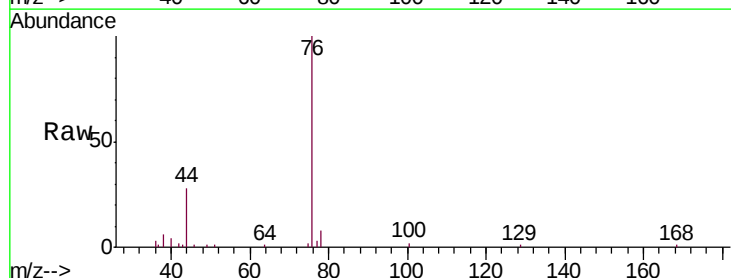


Abundance Ion 57.10 (56.80 to 57.80): VL0
Ion 41.10 (40.80 to 41.80): VL0
Ion 43.10 (42.80 to 43.80): VL0
Ion 56.10 (55.80 to 56.80): VL0

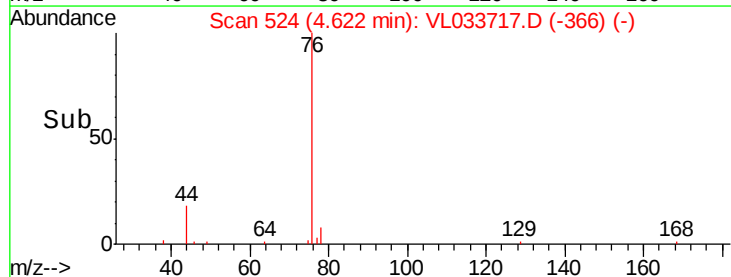
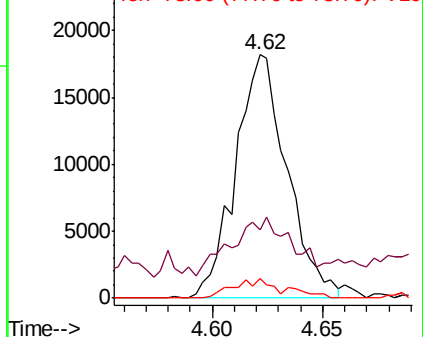


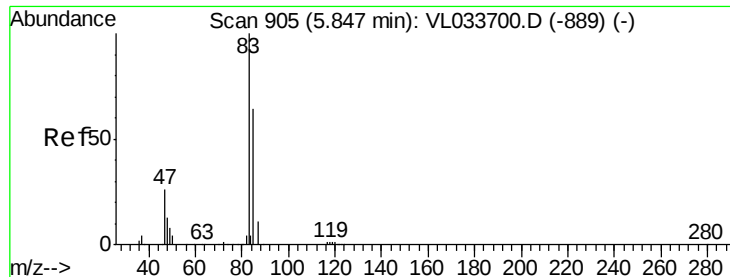
#27
Carbon Disulfide
Concen: 0.175 ppbv
RT: 4.62 min Scan# 524
Delta R.T. 0.01 min
Lab File: VL033717.D
Acq: 17 May 2019 15:23

Tgt Ion: 76 Resp: 29412
Ion Ratio Lower Upper
76 100
44 33.1 13.8 20.8#
78 7.8 7.4 11.0



Abundance Ion 76.00 (75.70 to 76.70): VL0
Ion 44.10 (43.80 to 44.80): VL0
Ion 78.00 (77.70 to 78.70): VL0

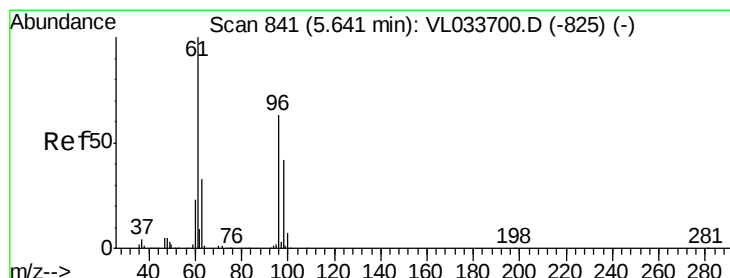
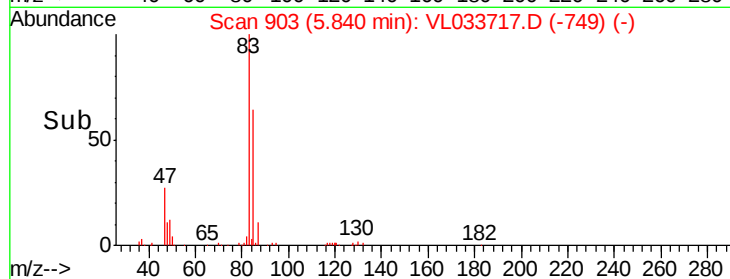
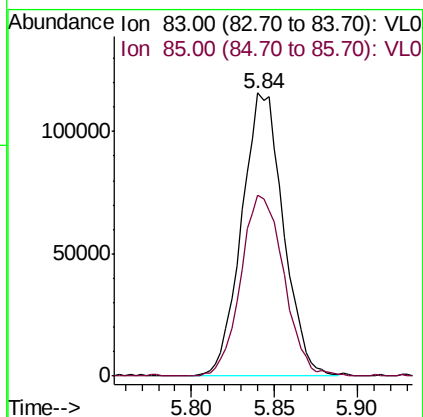
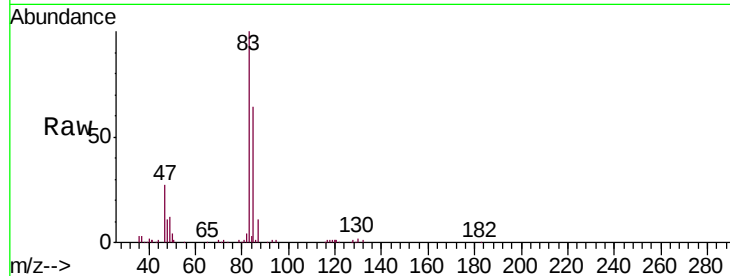




#29
Chloroform
Concen: 0.889 ppbv
RT: 5.84 min Scan# 903
Delta R.T. -0.01 min
Lab File: VL033717.D
Acq: 17 May 2019 15:23

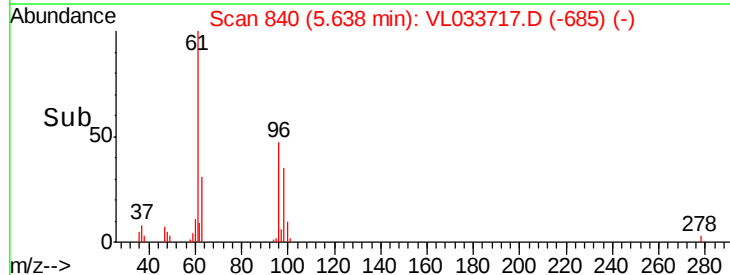
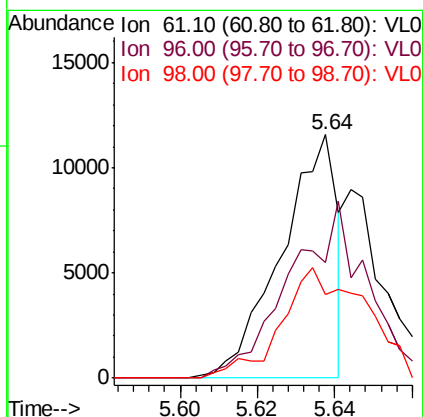
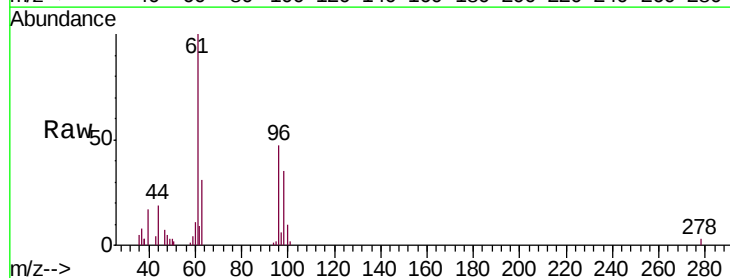
Instrument :
MSVOA_L
ClientSampleId :
S-01DL

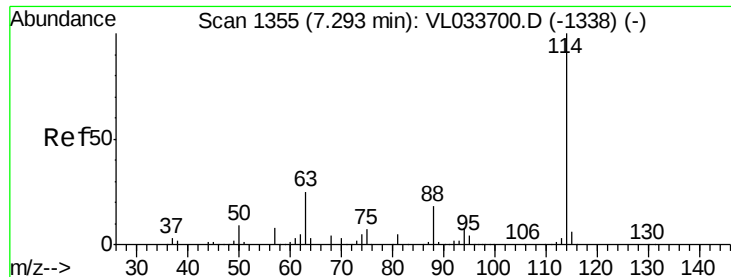
Tgt Ion: 83 Resp: 201059
Ion Ratio Lower Upper
83 100
85 63.8 51.5 77.3



#31
cis-1,2-Dichloroethene
Concen: 0.096 ppbv
RT: 5.64 min Scan# 840
Delta R.T. -0.00 min
Lab File: VL033717.D
Acq: 17 May 2019 15:23

Tgt Ion: 61 Resp: 11650
Ion Ratio Lower Upper
61 100
96 48.4 50.8 76.2#
98 35.3 33.3 49.9

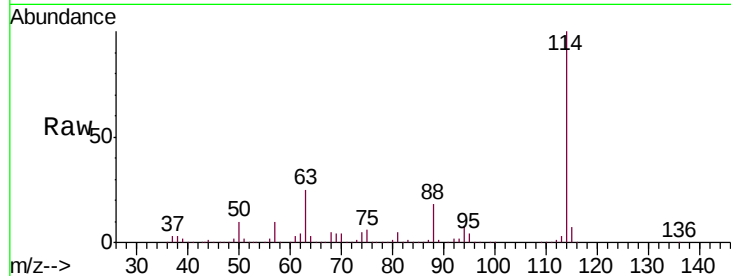




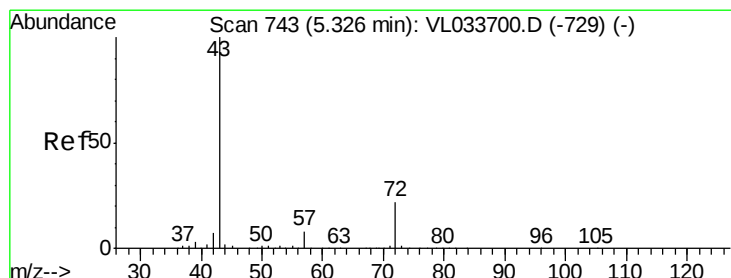
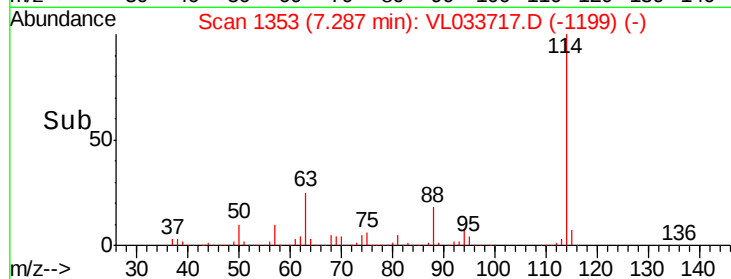
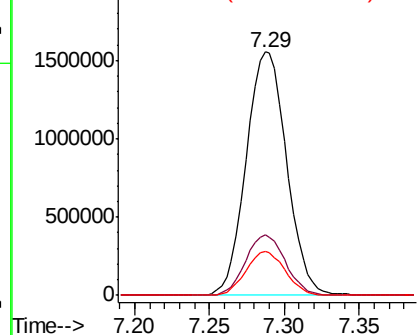
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.29 min Scan# 1353
 Delta R.T. -0.01 min
 Lab File: VL033717.D
 Acq: 17 May 2019 15:23

Instrument :
 MSVOA_L
 ClientSampleID :
 S-01DL

Tgt Ion: 114 Resp: 2925578
 Ion Ratio Lower Upper
 114 100
 63 24.6 20.9 31.3
 88 17.7 14.3 21.5

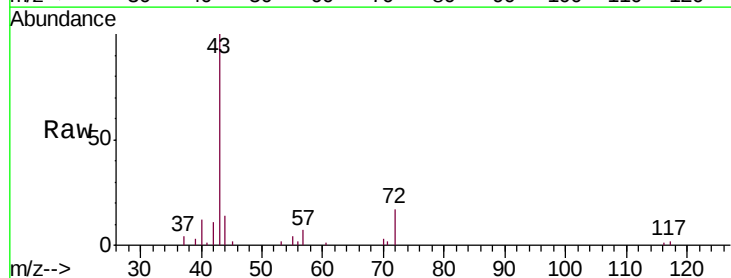


Abundance Ion 114.10 (113.80 to 114.80): V
 Ion 63.10 (62.80 to 63.80): VL0
 Ion 88.10 (87.80 to 88.80): VL0

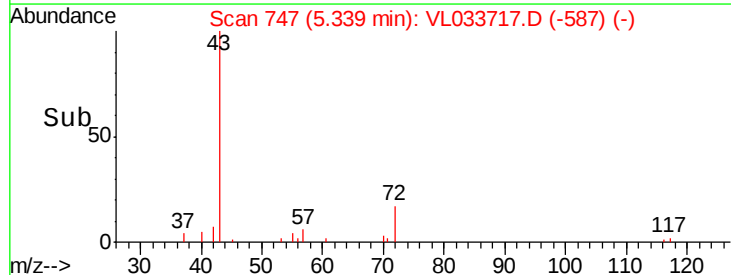
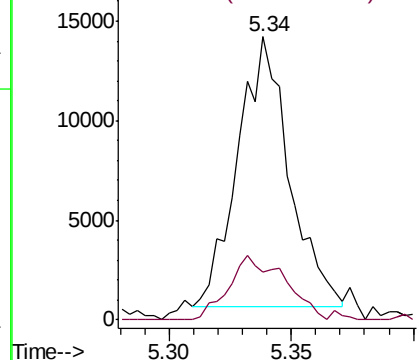


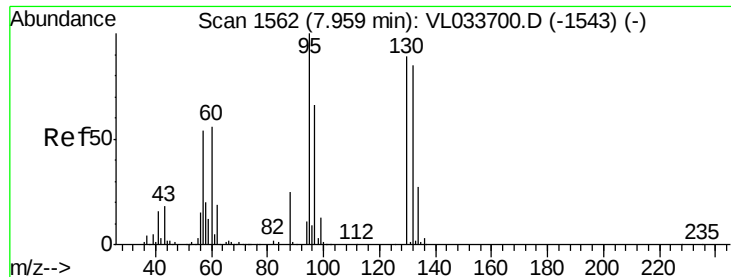
#34
 2-Butanone
 Concen: 0.109 ppbv
 RT: 5.34 min Scan# 747
 Delta R.T. 0.01 min
 Lab File: VL033717.D
 Acq: 17 May 2019 15:23

Tgt Ion: 43 Resp: 19849
 Ion Ratio Lower Upper
 43 100
 72 26.9 17.8 26.6#



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

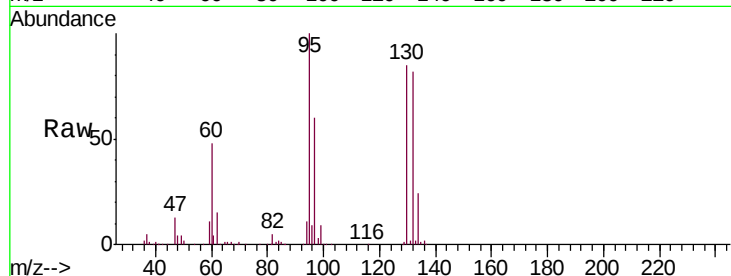




#38
 Trichloroethene
 Concen: 2.107 ppbv
 RT: 7.96 min Scan# 1561
 Delta R.T. -0.00 min
 Lab File: VL033717.D
 Acq: 17 May 2019 15:23

Instrument :
 MSVOA_L
 ClientSampleId :
 S-01DL

Tgt Ion:	130	Resp:	208024
Ion	Ratio	Lower	Upper
130	100		
95	118.3	90.2	135.4
132	97.0	76.4	114.6
97	71.3	59.8	89.6

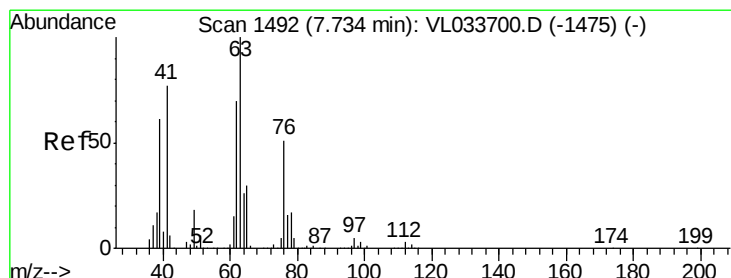
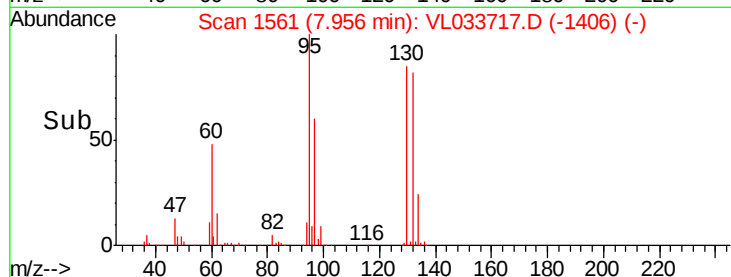
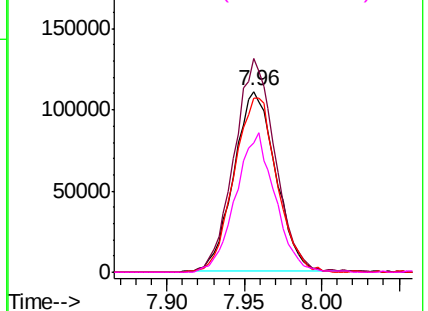


Abundance Ion 130.00 (129.70 to 130.70): V

Ion 95.00 (94.70 to 95.70): VL0

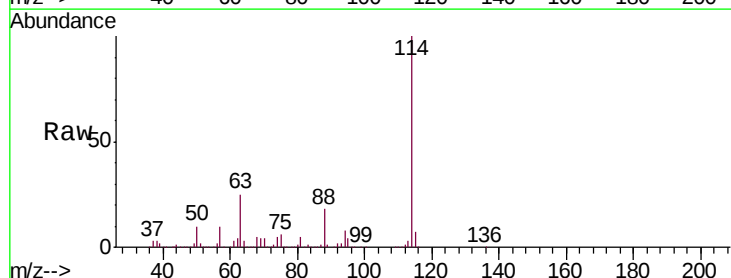
Ion 132.00 (131.70 to 132.70): V

Ion 97.00 (96.70 to 97.70): VL0



#39
 1,2-Dichloropropane
 Concen: 7.220 ppbv
 RT: 7.29 min Scan# 1353
 Delta R.T. -0.45 min
 Lab File: VL033717.D
 Acq: 17 May 2019 15:23

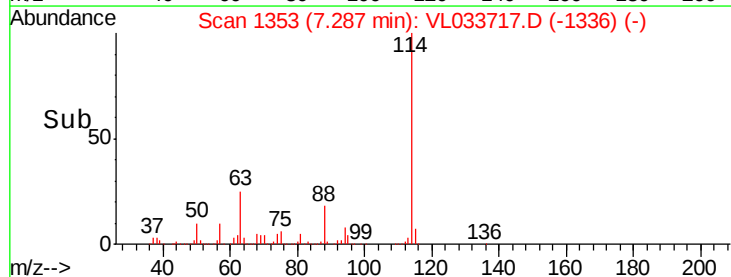
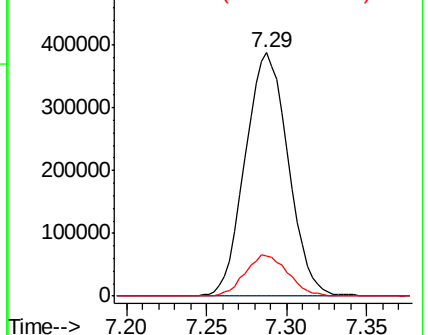
Tgt Ion:	63	Resp:	716333
Ion	Ratio	Lower	Upper
63	100		
41	0.0	61.5	92.3#
62	16.6	56.2	84.4#

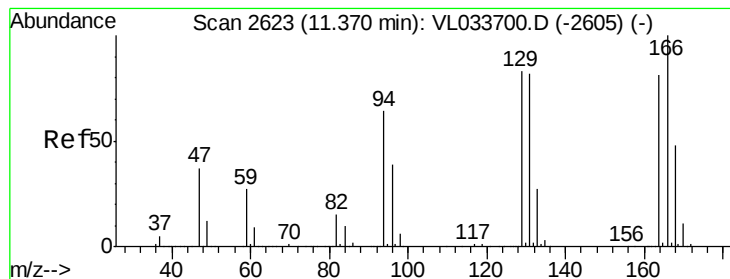


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 62.10 (61.80 to 62.80): VL0





#52

Tetrachloroethene

Concen: 0.709 ppbv

RT: 11.37 min Scan# 2622

Delta R.T. -0.00 min

Lab File: VL033717.D

Acq: 17 May 2019 15:23

Instrument :

MSVOA_L

ClientSampled :

S-01DL

Tgt Ion:164 Resp: 66336

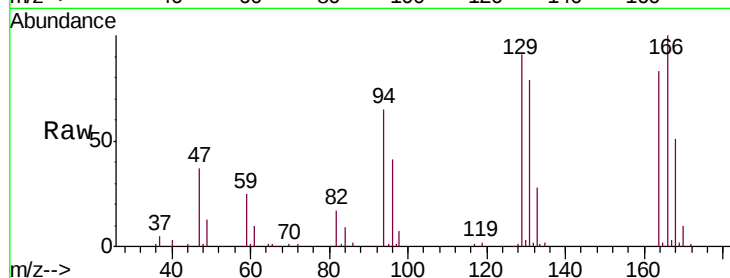
Ion Ratio Lower Upper

164 100

166 119.4 98.9 148.3

129 109.6 81.8 122.6

131 97.7 81.1 121.7

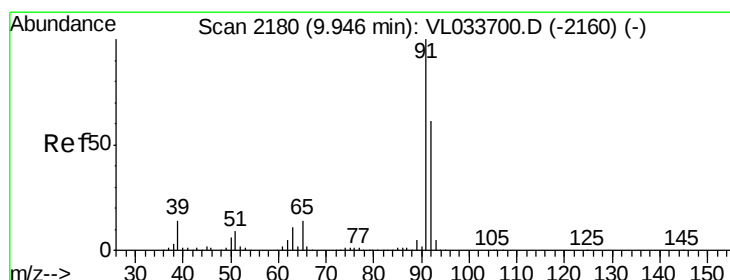
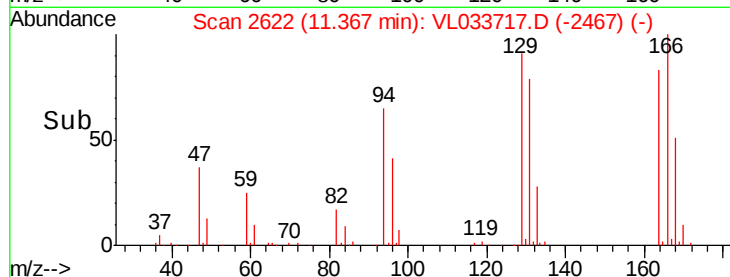
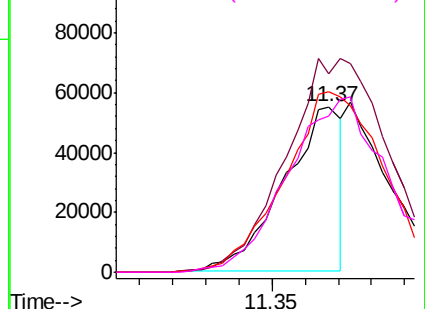


Abundance Ion 163.90 (163.60 to 164.60): V

Ion 165.90 (165.60 to 166.60): V

Ion 129.00 (128.70 to 129.70): V

Ion 131.00 (130.70 to 131.70): V



#53

Toluene

Concen: 0.040 ppbv

RT: 9.94 min Scan# 2178

Delta R.T. -0.01 min

Lab File: VL033717.D

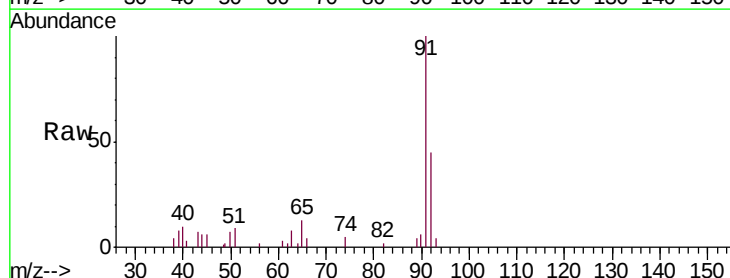
Acq: 17 May 2019 15:23

Tgt Ion: 91 Resp: 11389

Ion Ratio Lower Upper

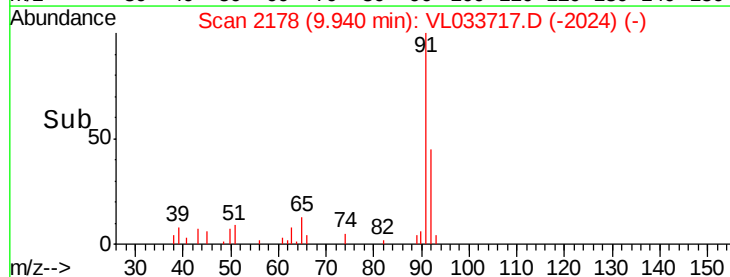
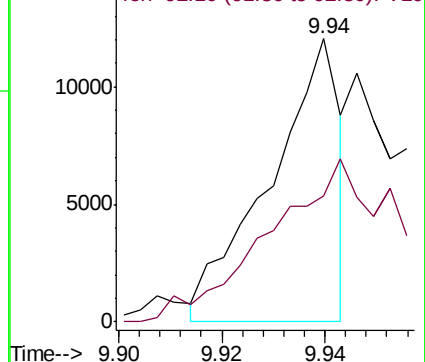
91 100

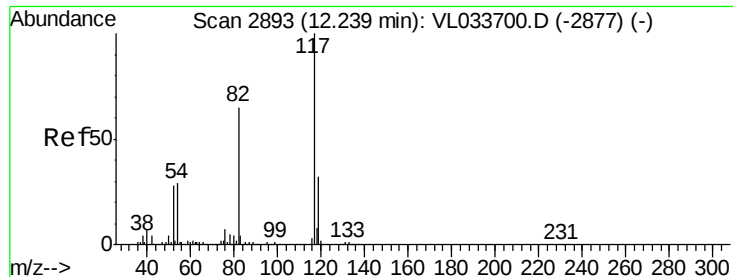
92 0.0 47.6 71.4#



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: 12.24 min Scan# 2892

Delta R.T. -0.00 min

Lab File: VL033717.D

Acq: 17 May 2019 15:23

Instrument :

MSVOA_L

ClientSampleId :

S-01DL

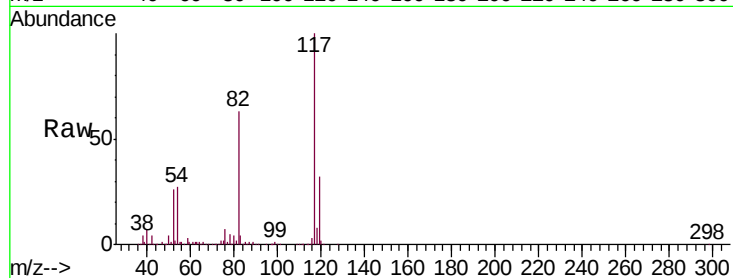
Tgt Ion:117 Resp: 2869654

Ion Ratio Lower Upper

117 100

82 64.1 49.4 74.0

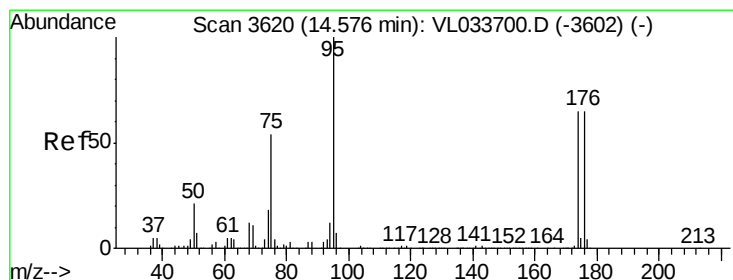
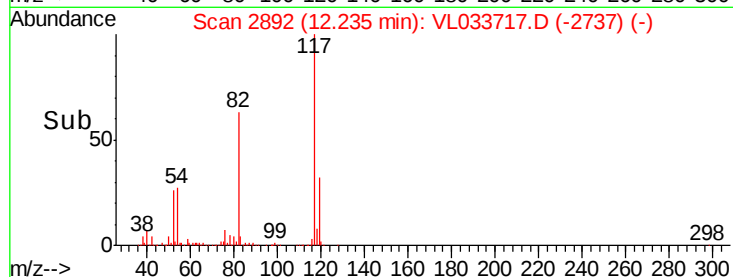
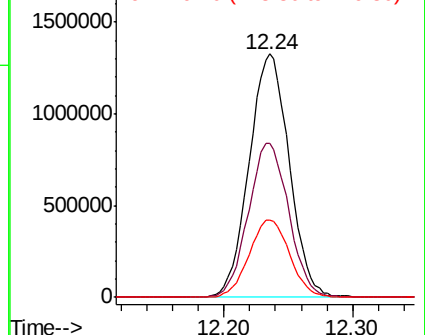
119 32.5 24.9 37.3



Abundance Ion 117.10 (116.80 to 117.80): V

Ion 82.10 (81.80 to 82.80): VL0

Ion 119.10 (118.80 to 119.80): V



#68

1-Bromo-4-Fluorobenzene

Concen: 9.964 ppbv

RT: 14.57 min Scan# 3619

Delta R.T. -0.00 min

Lab File: VL033717.D

Acq: 17 May 2019 15:23

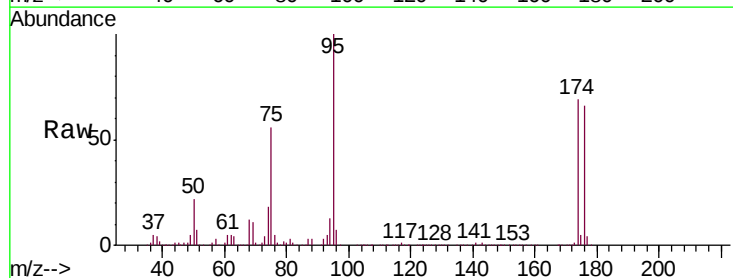
Tgt Ion: 95 Resp: 2318085

Ion Ratio Lower Upper

95 100

174 68.7 53.9 80.9

175 5.0 3.8 5.8



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

