

Data File : VL033295.D
Acq On : 12 Mar 2019 22:57
Operator : SY/AP
Sample : K1805-01DL 10X
Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
ST-SS-2DL

Quant Time: Mar 13 07:57:00 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL031219AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Mar 13 07:17:55 2019
QLast Update : Wed Mar 13 07:17:55 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.76	49	806564	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.29	114	1809470	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.24	117	1769598	10.00	ppbv	0.00

System Monitoring Compounds
68) 1-Bromo-4-Fluorobenzene 14.58 95 1404178 10.28 ppbv 0.00
Spiked Amount 10.000 Range 65 - 135 Recovery = 102.80%

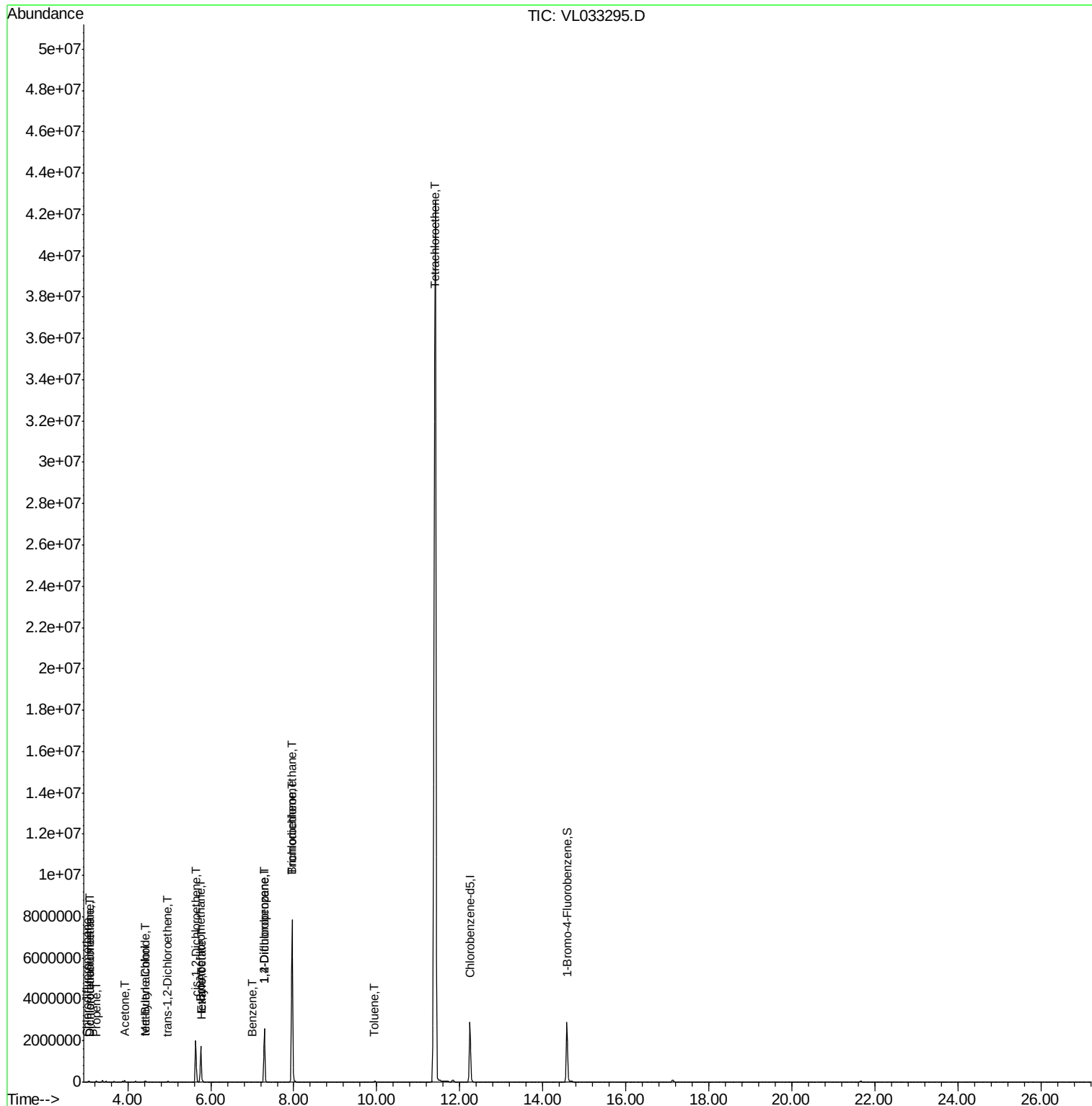
Target Compounds					Qvalue
2) Dichlorodifluoromethane	3.07	85	10307	0.063 ppbv	98
3) Chlorodifluoromethane	3.02	51	8870	0.083 ppbv #	80
8) Dichlorotetrafluoroethane	3.07	85	10307	0.075 ppbv #	19
9) Propene	3.24	41	9196	0.189 ppbv	92
15) Acetone	3.92	43	34812	0.281 ppbv #	85
17) tert-Butyl alcohol	4.40	59	896	0.054 ppbv #	74
20) Methylene Chloride	4.41	84	15351	0.373 ppbv #	84
22) trans-1,2-Dichloroethene	4.97	96	5996	0.138 ppbv #	82
25) Ethyl Acetate	5.78	43	10066	0.053 ppbv #	1
26) Hexane	5.78	57	6285	0.070 ppbv #	24
31) cis-1,2-Dichloroethene	5.64	61	1097476	12.793 ppbv	98
36) Benzene	7.00	78	4831	0.029 ppbv	92
38) Trichloroethene	7.96	130	2505786	38.521 ppbv	97
39) 1,2-Dichloropropane	7.29	63	492281	7.839 ppbv #	24
42) Bromodichloromethane	7.96	83	20907	0.152 ppbv #	95
52) Tetrachloroethene	11.41	164	17499703	286.069 ppbv	89
53) Toluene	9.94	91	14279	0.074 ppbv #	7

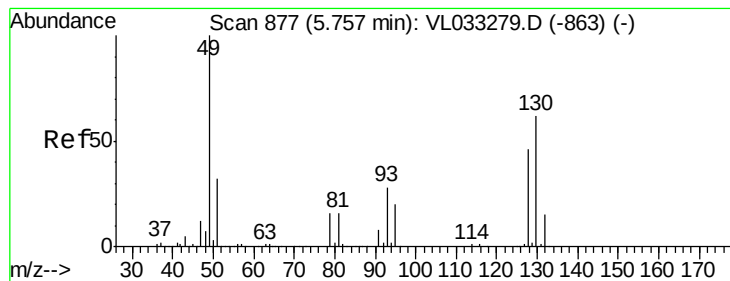
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.76 min Scan# 878

Delta R.T. -0.00 min

Lab File: VL033295.D

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Instrument :

MSVOA_L

ClientSampleId :

ST-SS-2DL

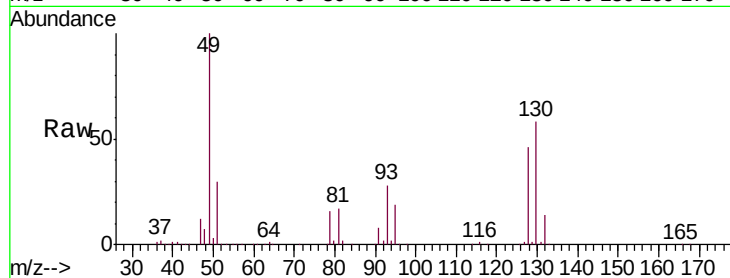
Tgt Ion: 49 Resp: 806564

Ion Ratio Lower Upper

49 100

128 46.5 23.3 69.9

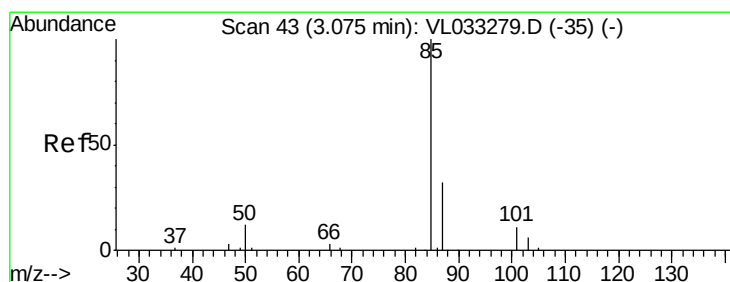
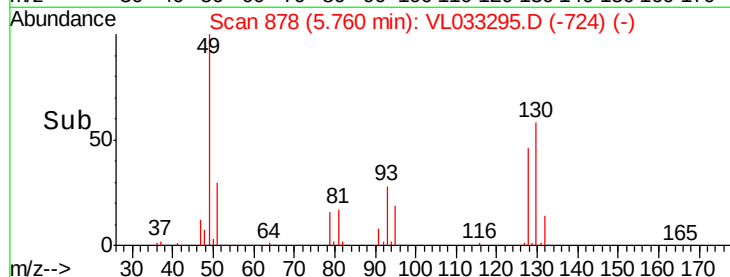
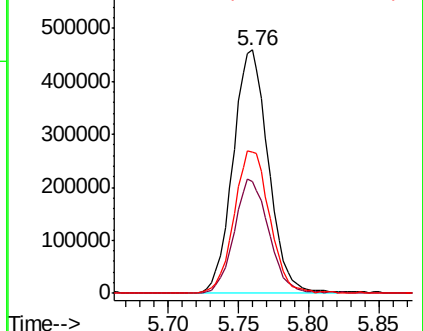
130 59.3 30.0 90.1



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: 0.063 ppbv

RT: 3.07 min Scan# 43

Delta R.T. -0.00 min

Lab File: VL033295.D

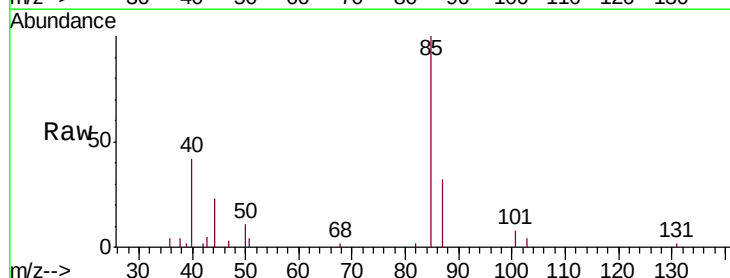
Acq: 12 Mar 2019 22:57

Tgt Ion: 85 Resp: 10307

Ion Ratio Lower Upper

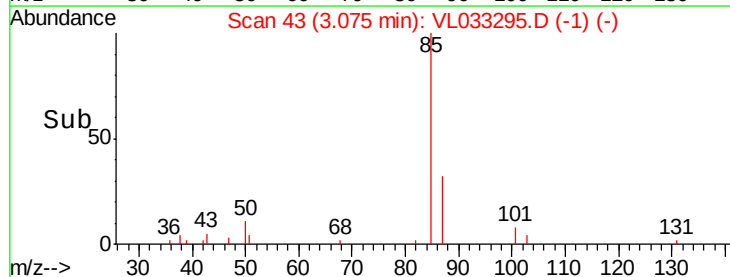
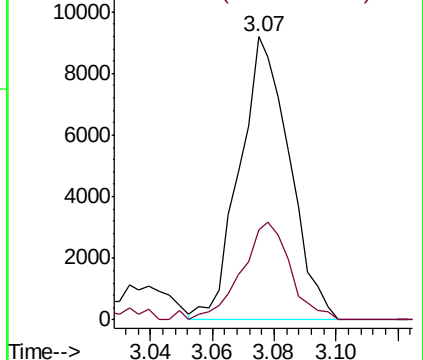
85 100

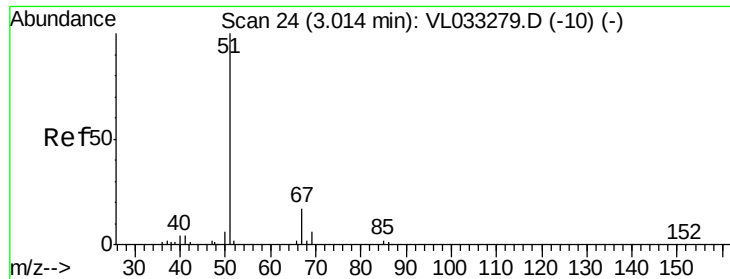
87 32.0 26.4 39.6



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.083 ppbv

RT: 3.02 min Scan# 25

Delta R.T. -0.00 min

Lab File: VL033295.D

Acq: 12 Mar 2019 22:57

Instrument :

MSVOA_L

ClientSampleId :

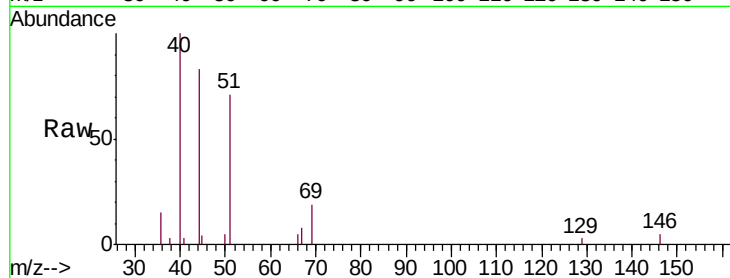
ST-SS-2DL

Tgt Ion: 51 Resp: 8870

Ion Ratio Lower Upper

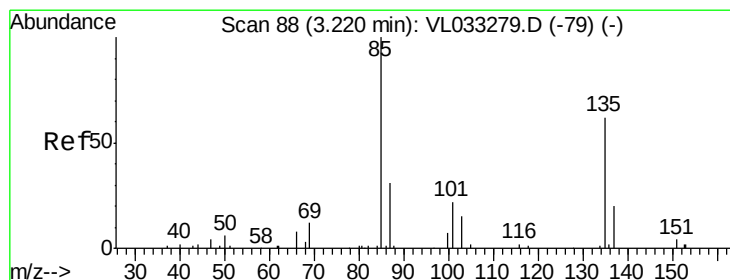
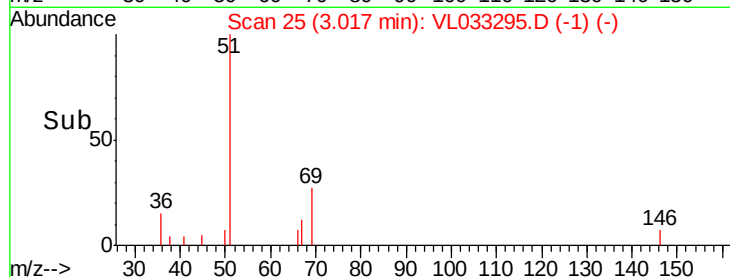
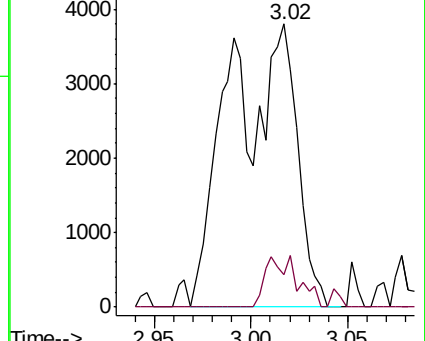
51 100

67 9.7 15.0 22.4#



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#8

Dichlorotetrafluoroethane

Concen: 0.075 ppbv

RT: 3.07 min Scan# 43

Delta R.T. -0.15 min

Lab File: VL033295.D

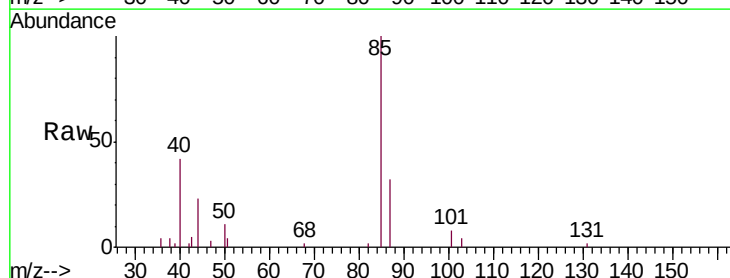
Acq: 12 Mar 2019 22:57

Tgt Ion: 85 Resp: 10307

Ion Ratio Lower Upper

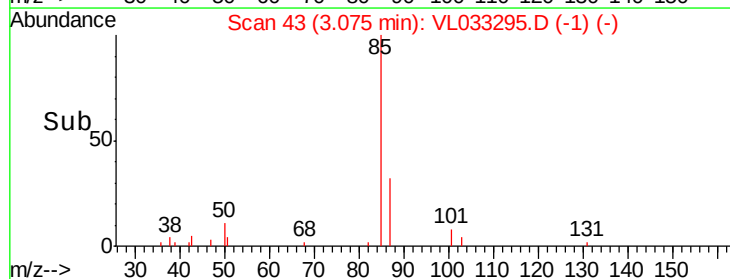
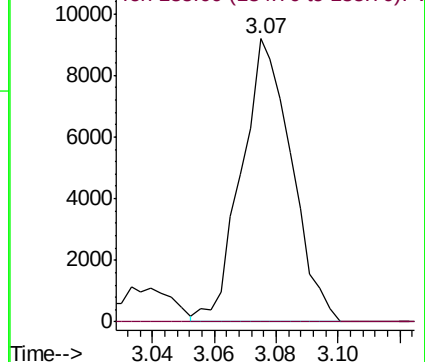
85 100

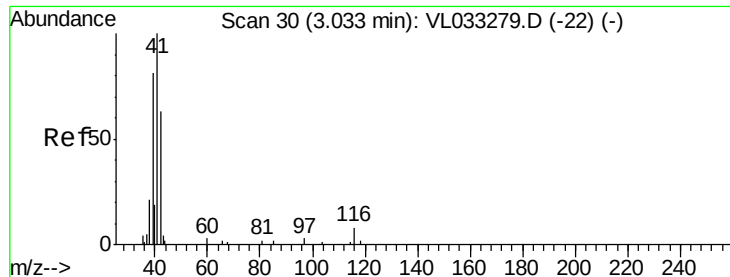
135 1.6 53.4 80.2#



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 135.00 (134.70 to 135.70): V





#9

Propene

Concen: 0.189 ppbv

RT: 3.24 min Scan# 94

Delta R.T. 0.20 min

Lab File: VL033295.D

Acq: 12 Mar 2019 22:57

Instrument :

MSVOA_L

ClientSampleId :

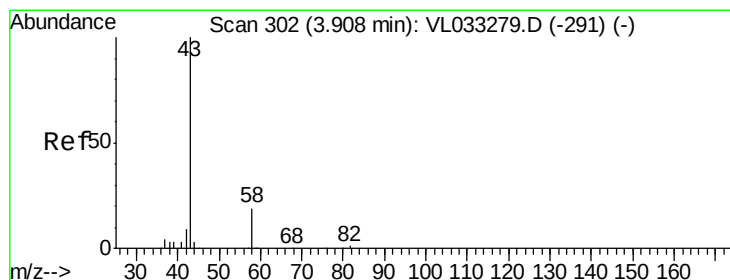
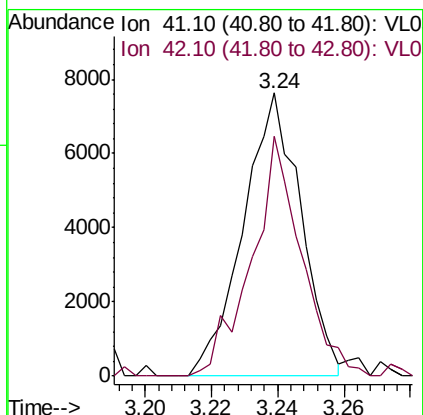
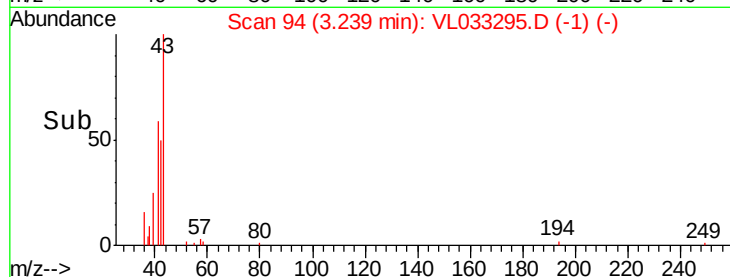
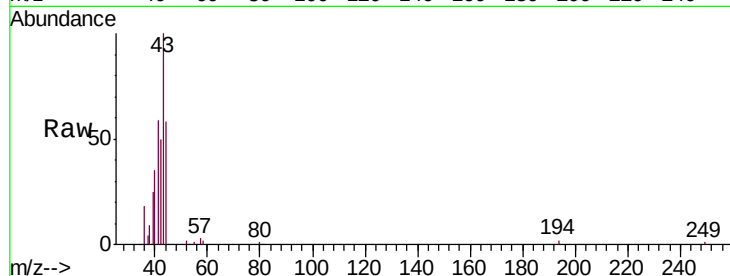
ST-SS-2DL

Tgt Ion: 41 Resp: 9196

Ion Ratio Lower Upper

41 100

42 74.6 54.6 82.0



#15

Acetone

Concen: 0.281 ppbv

RT: 3.92 min Scan# 307

Delta R.T. 0.02 min

Lab File: VL033295.D

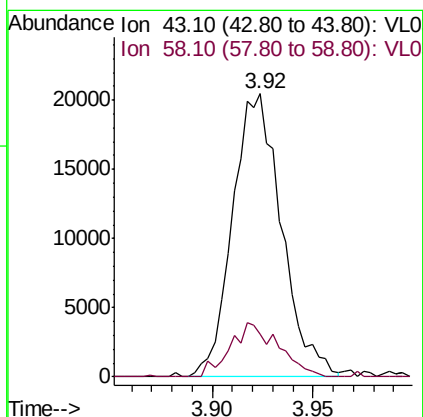
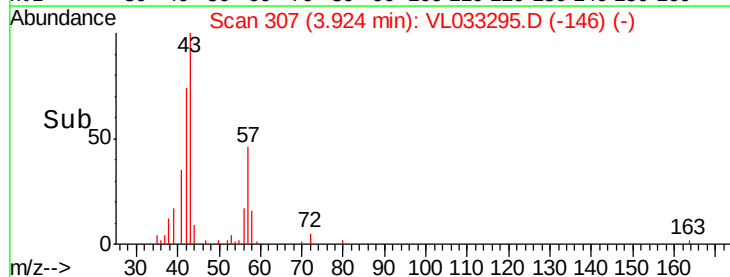
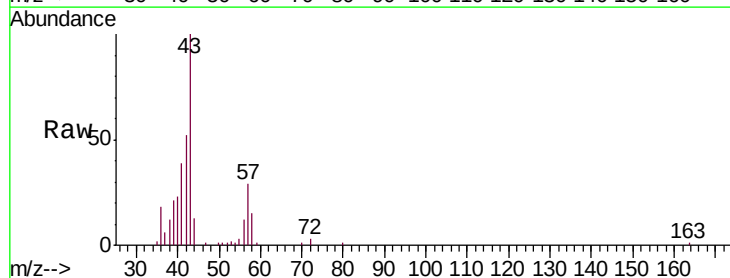
Acq: 12 Mar 2019 22:57

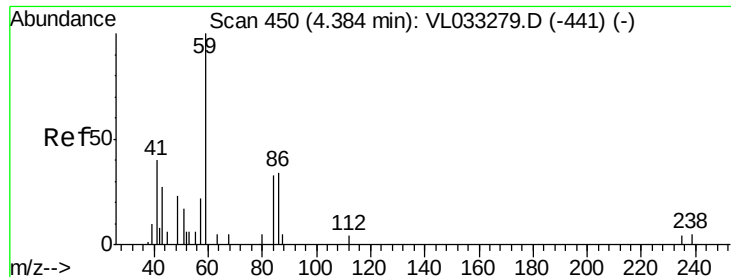
Tgt Ion: 43 Resp: 34812

Ion Ratio Lower Upper

43 100

58 18.7 21.1 31.7#





#17

tert-Butyl alcohol

Concen: 0.054 ppbv

RT: 4.40 min Scan# 455

Delta R.T. 0.04 min

Lab File: VL033295.D

Acq: 12 Mar 2019 22:57

Instrument :

MSVOA_L

ClientSampleId :

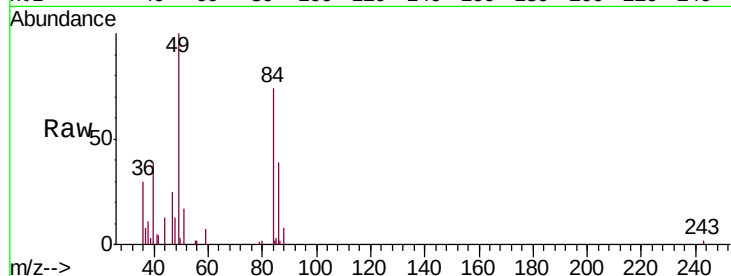
ST-SS-2DL

Tgt Ion: 59 Resp: 896

Ion Ratio Lower Upper

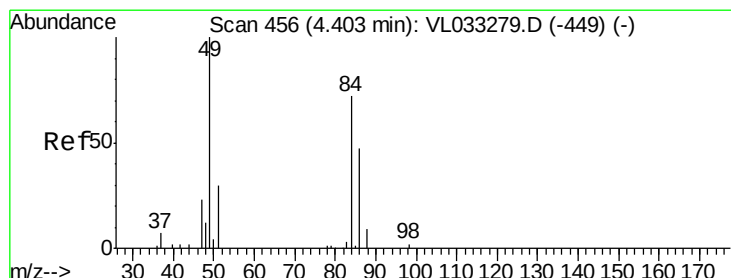
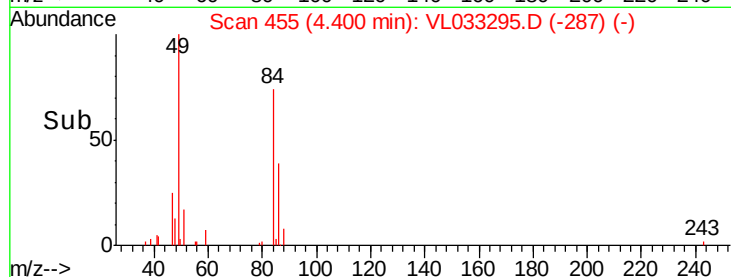
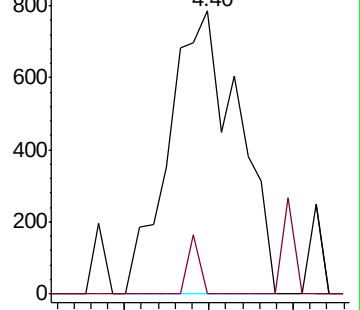
59 100

57 0.0 7.5 11.3#



Abundance Ion 59.10 (58.80 to 59.80): VL0

Ion 57.10 (56.80 to 57.80): VL0



#20

Methylene Chloride

Concen: 0.373 ppbv

RT: 4.41 min Scan# 459

Delta R.T. 0.00 min

Lab File: VL033295.D

Acq: 12 Mar 2019 22:57

Tgt Ion: 84 Resp: 15351

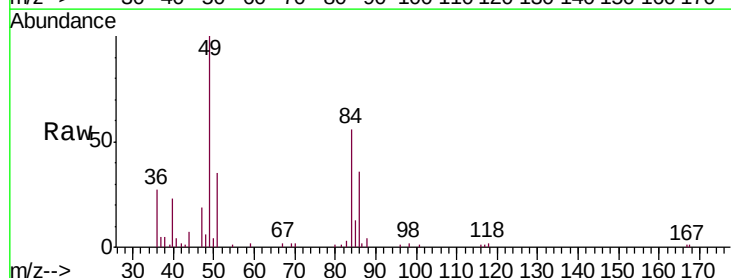
Ion Ratio Lower Upper

84 100

49 175.2 120.3 180.5

51 61.3 36.2 54.4#

86 68.5 52.5 78.7

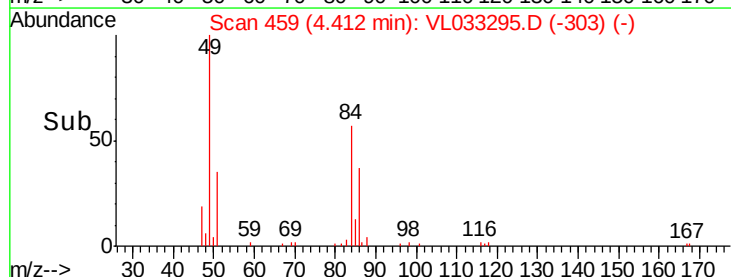
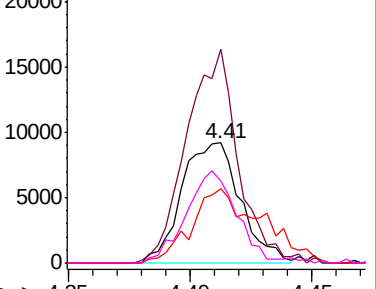


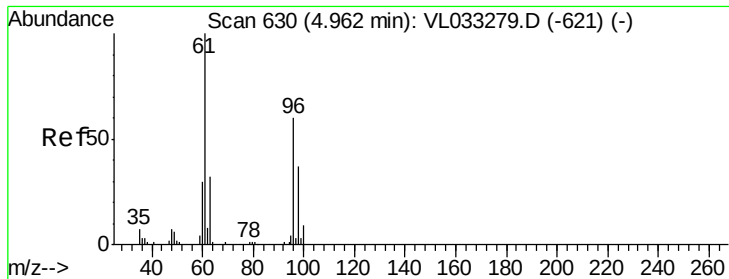
Abundance Ion 84.00 (83.70 to 84.70): VL0

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





#22

trans-1,2-Dichloroethene

Concen: 0.138 ppbv

RT: 4.97 min Scan# 631

Delta R.T. -0.00 min

Lab File: VL033295.D

Acq: 12 Mar 2019 22:57

Instrument :

MSVOA_L

ClientSampleId :

ST-SS-2DL

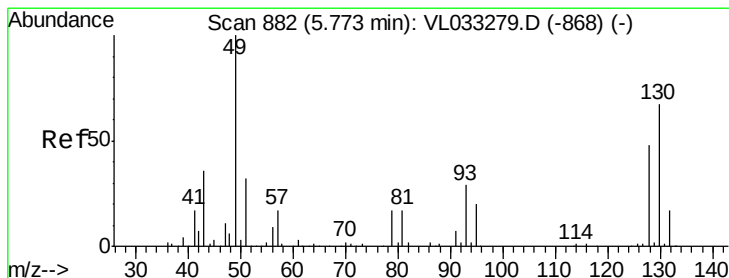
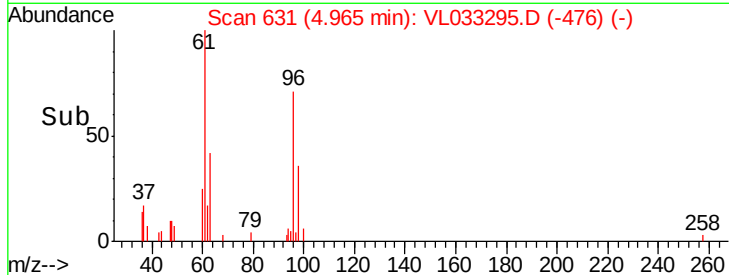
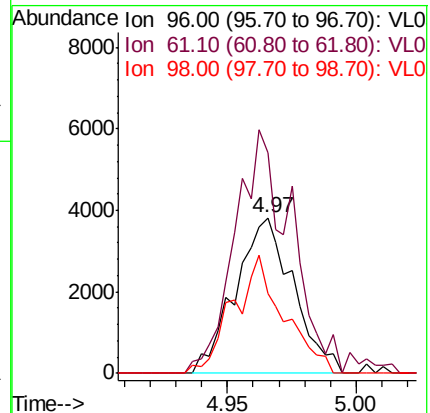
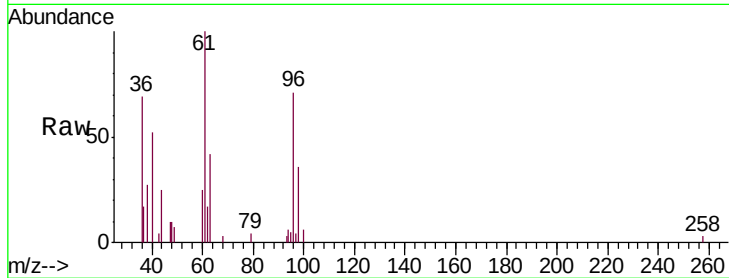
Tgt Ion: 96 Resp: 5996

Ion Ratio Lower Upper

96 100

61 141.7 131.6 197.4

98 51.2 54.1 81.1#



#25

Ethyl Acetate

Concen: 0.053 ppbv

RT: 5.78 min Scan# 884

Delta R.T. 0.01 min

Lab File: VL033295.D

Acq: 12 Mar 2019 22:57

Tgt Ion: 43 Resp: 10066

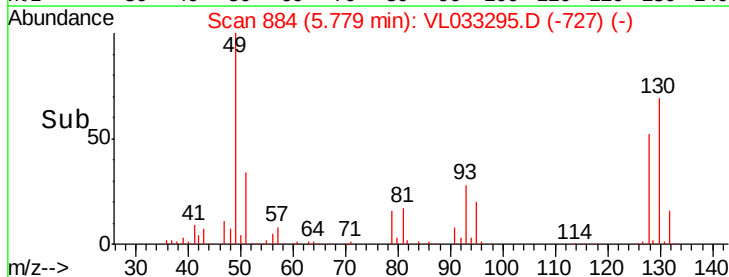
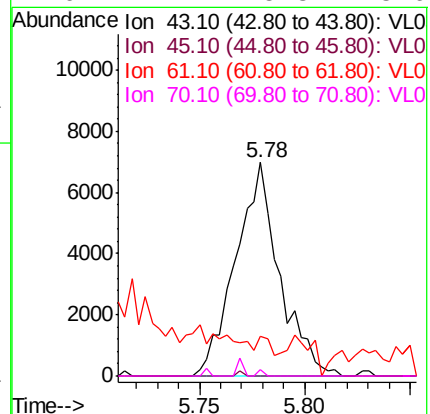
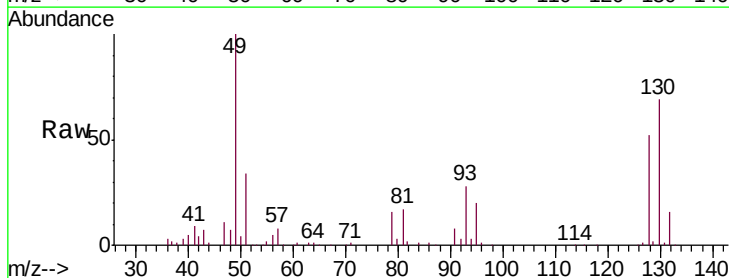
Ion Ratio Lower Upper

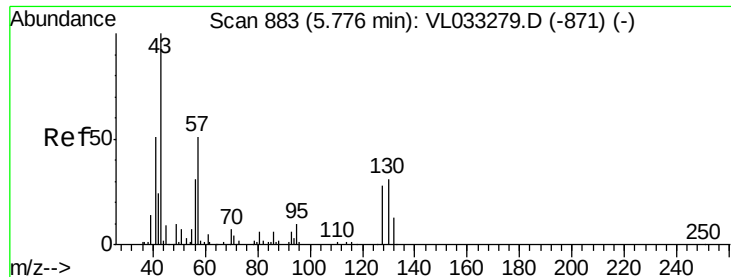
43 100

45 0.0 7.8 11.6#

61 10964.9 7.3 10.9#

70 122.7 5.8 8.6#

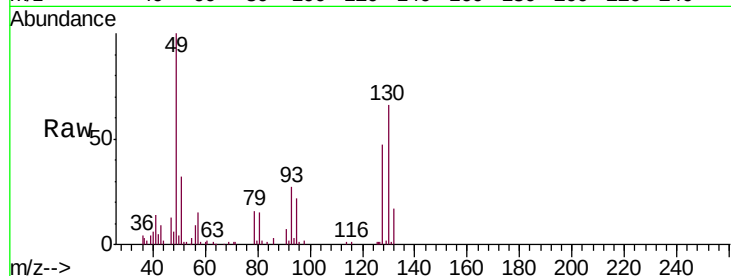




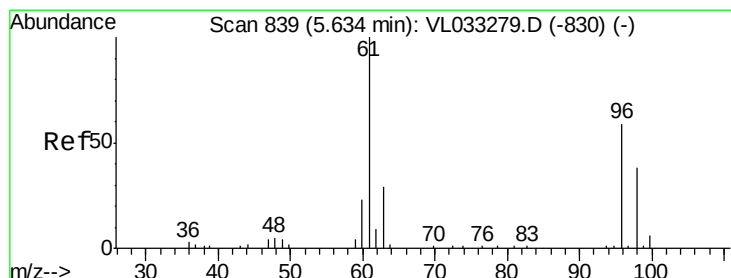
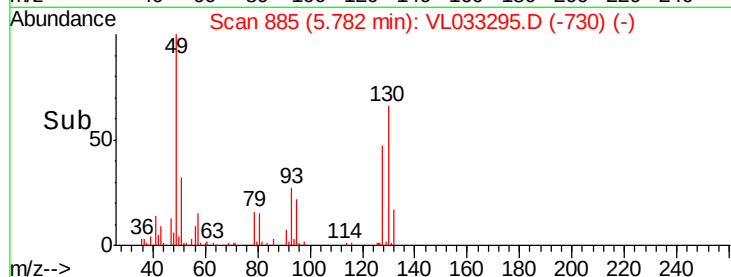
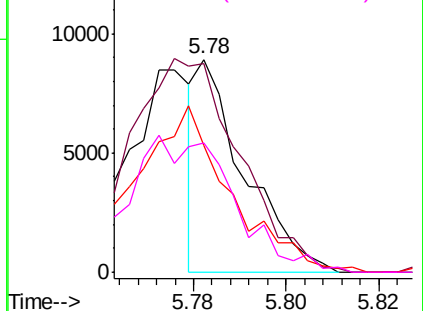
#26
Hexane
Concen: 0.070 ppbv
RT: 5.78 min Scan# 885
Delta R.T. -0.00 min
Lab File: VL033295.D
Acq: 12 Mar 2019 22:57

Instrument :
MSVOA_L
ClientSampleId :
ST-SS-2DL

Tgt Ion: 57 Resp: 6285
Ion Ratio Lower Upper
57 100
41 248.1 70.7 106.1#
43 161.2 178.6 267.8#
56 0.0 41.3 61.9#

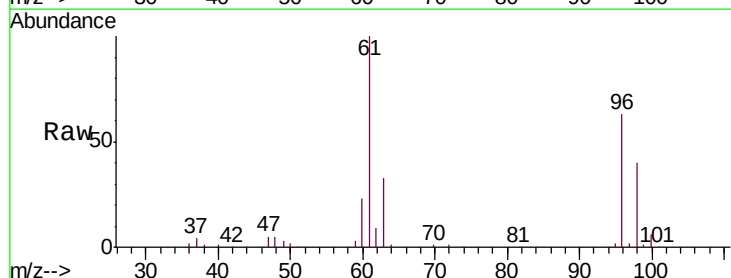


Abundance Ion 57.10 (56.80 to 57.80): VL0
Ion 41.10 (40.80 to 41.80): VL0
Ion 43.10 (42.80 to 43.80): VL0
Ion 56.10 (55.80 to 56.80): VL0

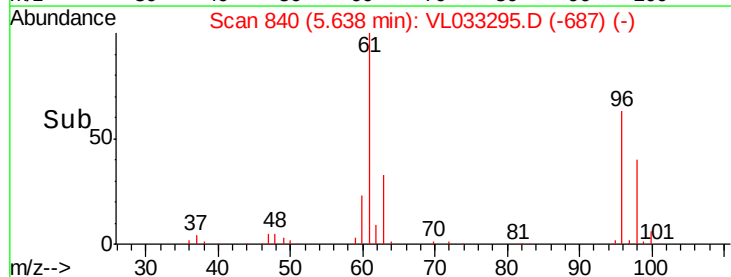
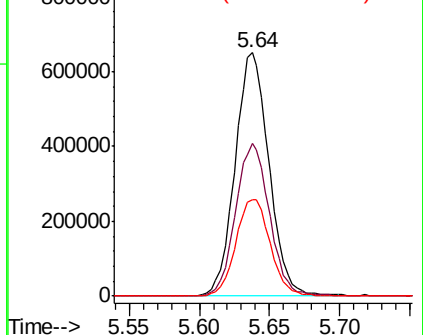


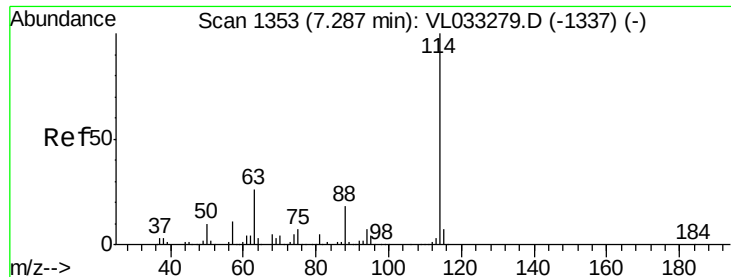
#31
cis-1,2-Dichloroethene
Concen: 12.793 ppbv
RT: 5.64 min Scan# 840
Delta R.T. -0.01 min
Lab File: VL033295.D
Acq: 12 Mar 2019 22:57

Tgt Ion: 61 Resp: 1097476
Ion Ratio Lower Upper
61 100
96 62.7 51.8 77.8
98 39.8 32.9 49.3



Abundance Ion 61.10 (60.80 to 61.80): VL0
Ion 96.00 (95.70 to 96.70): VL0
Ion 98.00 (97.70 to 98.70): VL0

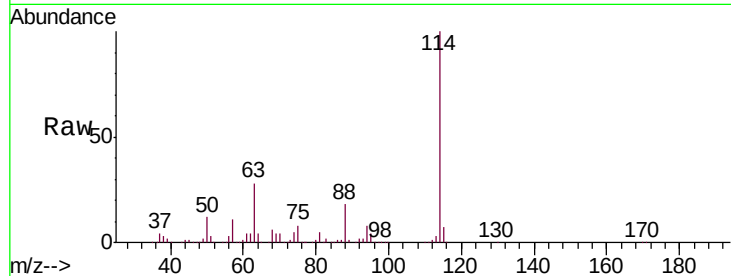




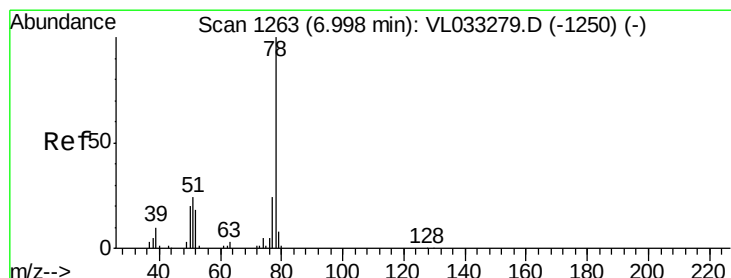
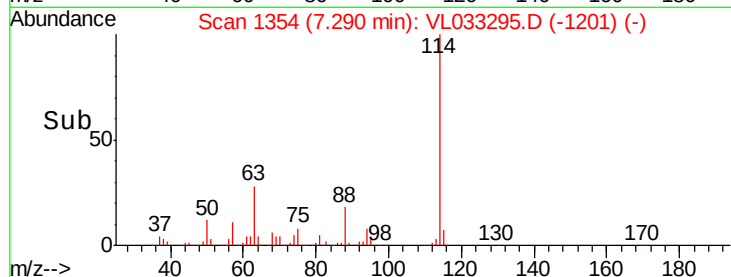
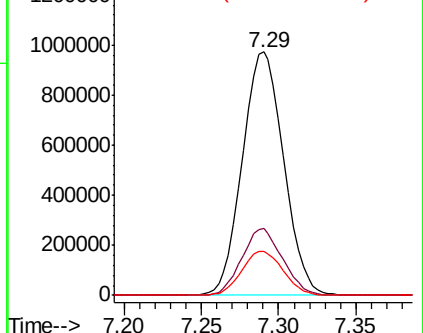
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.29 min Scan# 1354
 Delta R.T. -0.01 min
 Lab File: VL033295.D
 Acq: 12 Mar 2019 22:57

Instrument :
 MSVOA_L
 ClientSampleId :
 ST-SS-2DL

Tgt Ion:114 Resp: 1809470
 Ion Ratio Lower Upper
 114 100
 63 27.2 21.5 32.3
 88 18.3 14.6 22.0

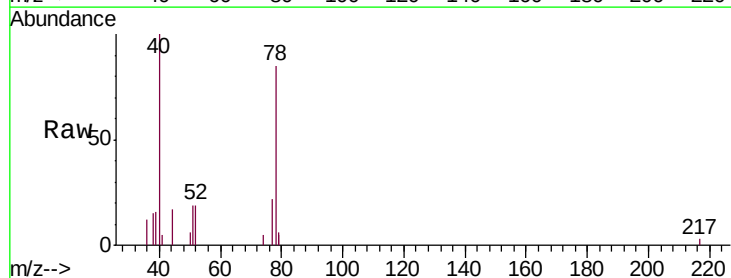


Abundance Ion 114.10 (113.80 to 114.80): VL0
 Ion 63.10 (62.80 to 63.80): VL0
 Ion 88.10 (87.80 to 88.80): VL0

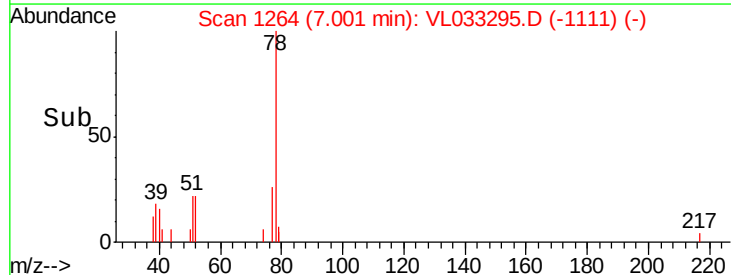
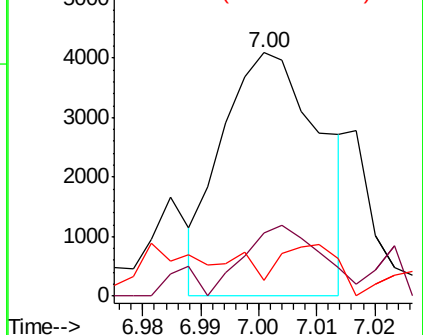


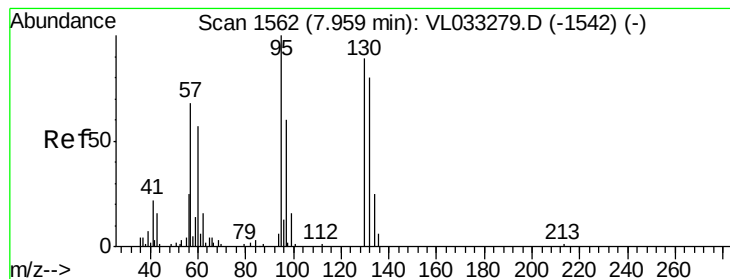
#36
 Benzene
 Concen: 0.029 ppbv
 RT: 7.00 min Scan# 1264
 Delta R.T. -0.01 min
 Lab File: VL033295.D
 Acq: 12 Mar 2019 22:57

Tgt Ion: 78 Resp: 4831
 Ion Ratio Lower Upper
 78 100
 77 17.8 17.7 26.5
 50 16.8 15.7 23.5



Abundance Ion 78.10 (77.80 to 78.80): VL0
 Ion 77.10 (76.80 to 77.80): VL0
 Ion 50.10 (49.80 to 50.80): VL0





#38

Trichloroethene

Concen: 38.521 ppbv

RT: 7.96 min Scan# 1562

Delta R.T. -0.01 min

Lab File: VL033295.D

Acq: 12 Mar 2019 22:57

Instrument :

MSVOA_L

ClientSampleId :

ST-SS-2DL

Tgt Ion:130 Resp: 2505786

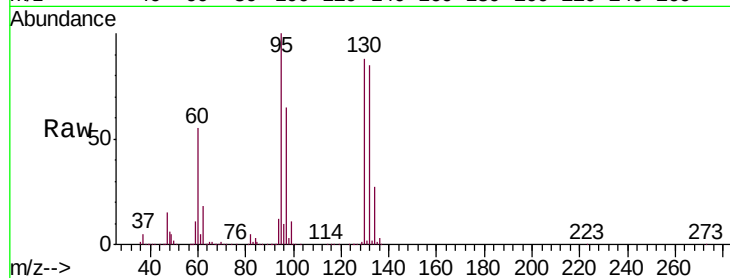
Ion Ratio Lower Upper

130 100

95 113.2 93.3 139.9

132 96.3 75.4 113.2

97 73.8 60.6 91.0

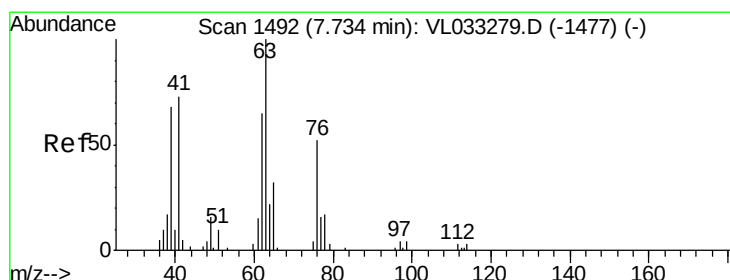
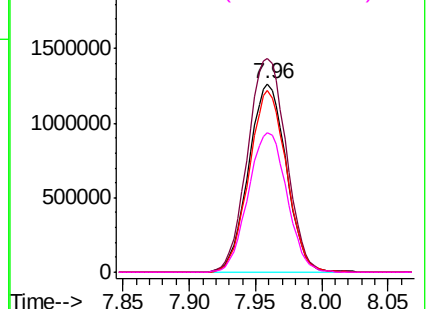
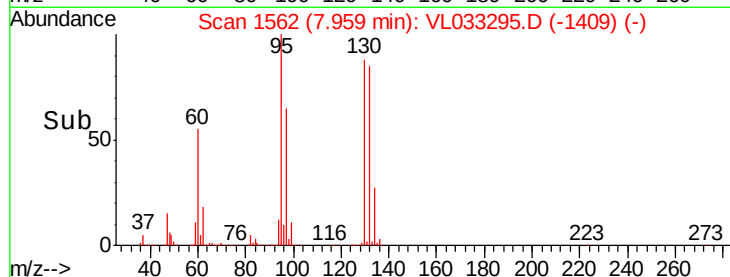


Abundance Ion 130.00 (129.70 to 130.70): V

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: 7.839 ppbv

RT: 7.29 min Scan# 1354

Delta R.T. -0.45 min

Lab File: VL033295.D

Acq: 12 Mar 2019 22:57

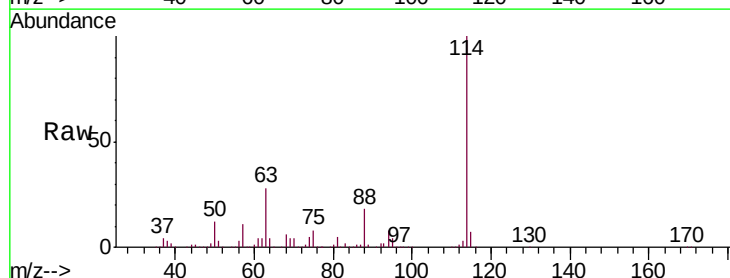
Tgt Ion: 63 Resp: 492281

Ion Ratio Lower Upper

63 100

41 0.0 58.3 87.5#

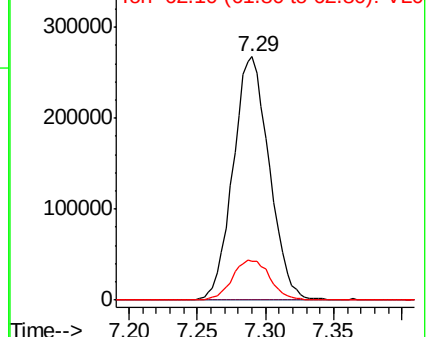
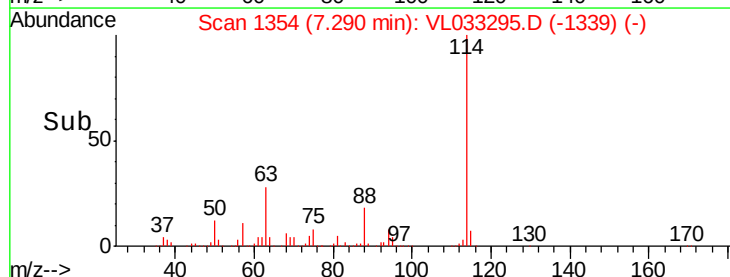
62 15.8 55.3 82.9#

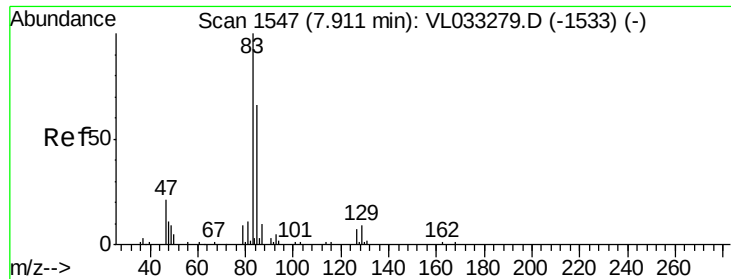


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 62.10 (61.80 to 62.80): VL0





#42

Bromodichloromethane

Concen: 0.152 ppbv

RT: 7.96 min Scan# 1561

Delta R.T. 0.04 min

Lab File: VL033295.D

Acq: 12 Mar 2019 22:57

Instrument :

MSVOA_L

ClientSampleId :

ST-SS-2DL

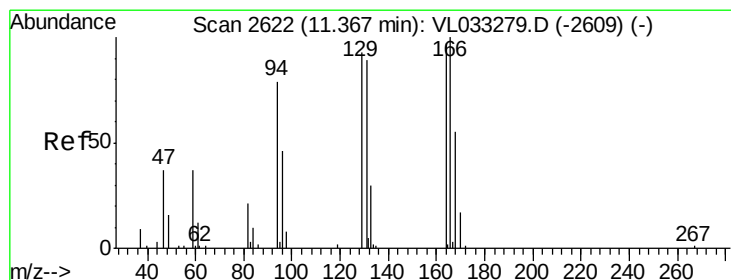
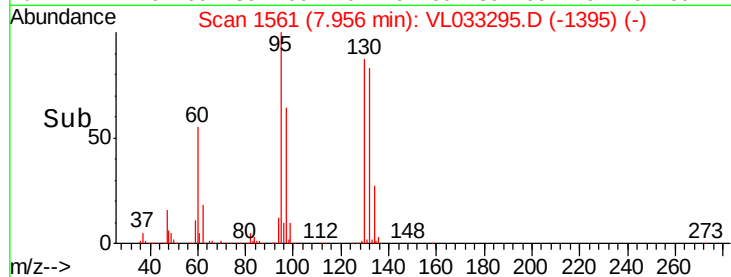
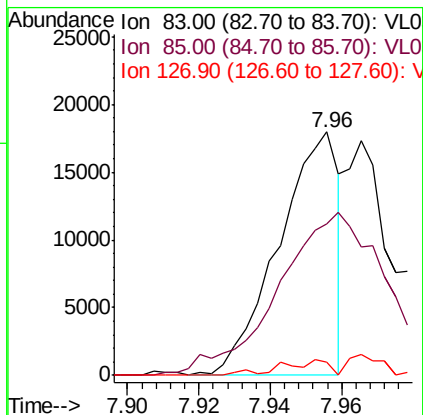
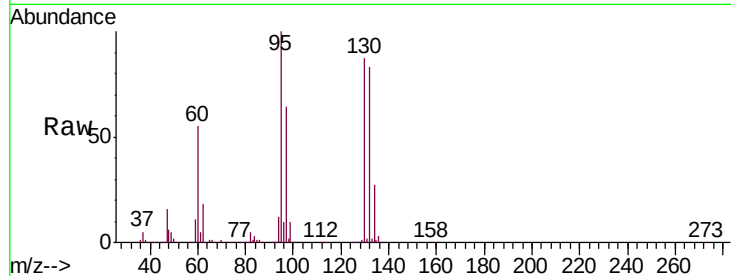
Tgt Ion: 83 Resp: 20907

Ion Ratio Lower Upper

83 100

85 59.8 51.0 76.4

127 5.2 6.0 9.0#



#52

Tetrachloroethene

Concen: 286.069 ppbv

RT: 11.41 min Scan# 2636

Delta R.T. 0.04 min

Lab File: VL033295.D

Acq: 12 Mar 2019 22:57

Tgt Ion:164 Resp:17499703

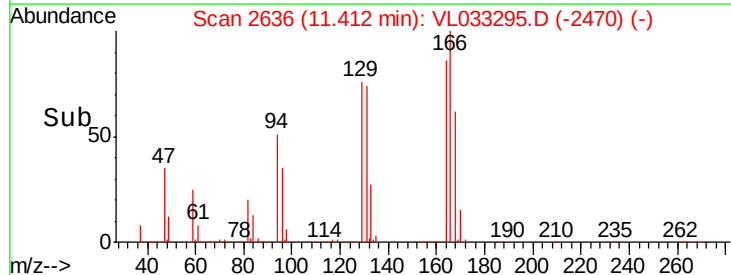
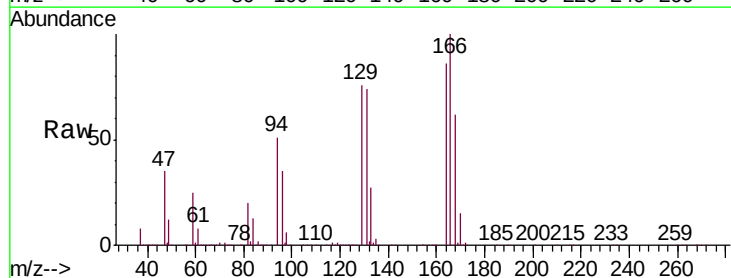
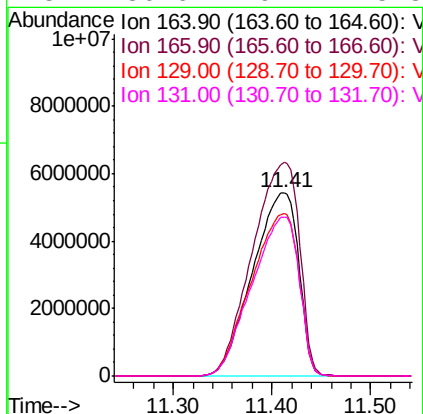
Ion Ratio Lower Upper

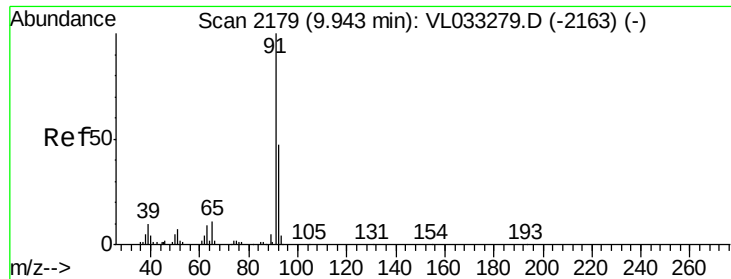
164 100

166 116.5 100.8 151.2

129 88.7 80.6 121.0

131 86.6 79.2 118.8





#53

Toluene

Concen: 0.074 ppbv

RT: 9.94 min Scan# 2178

Delta R.T. -0.01 min

Lab File: VL033295.D

Acq: 12 Mar 2019 22:57

Instrument :

MSVOA_L

ClientSampleId :

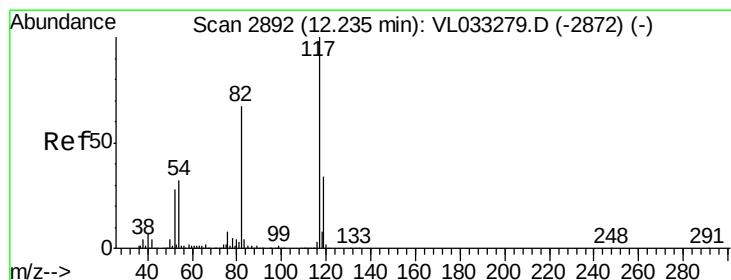
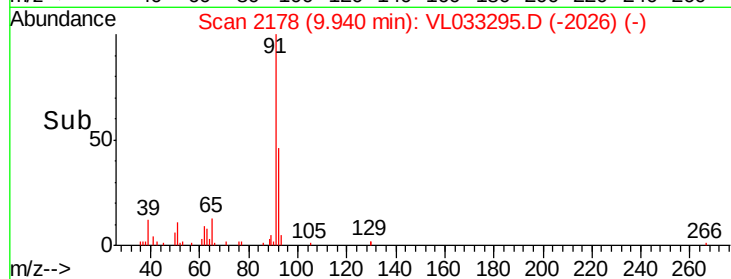
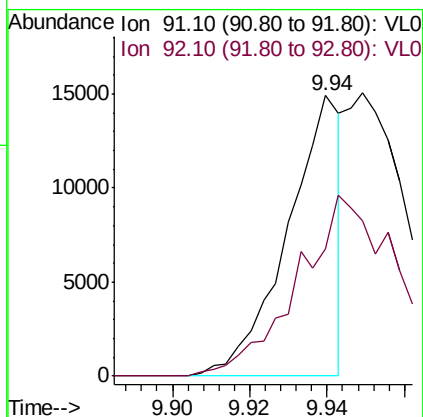
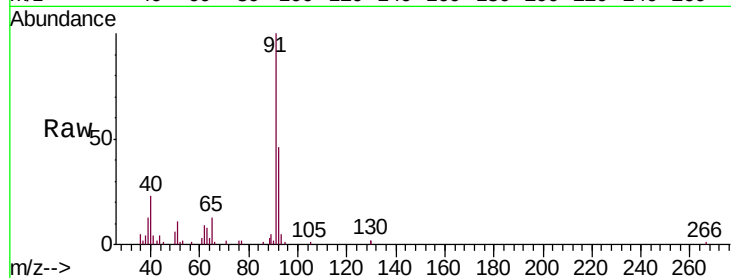
ST-SS-2DL

Tgt Ion: 91 Resp: 14279

Ion Ratio Lower Upper

91 100

92 130.1 47.8 71.8#



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.24 min Scan# 2895

Delta R.T. -0.00 min

Lab File: VL033295.D

Acq: 12 Mar 2019 22:57

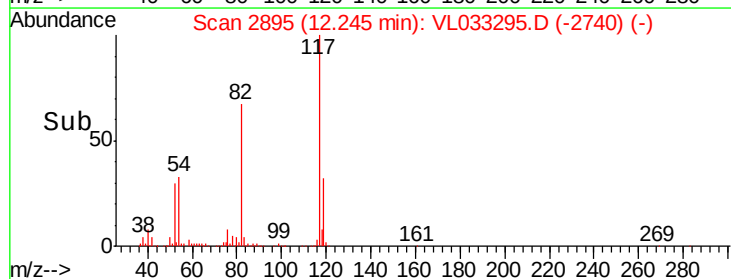
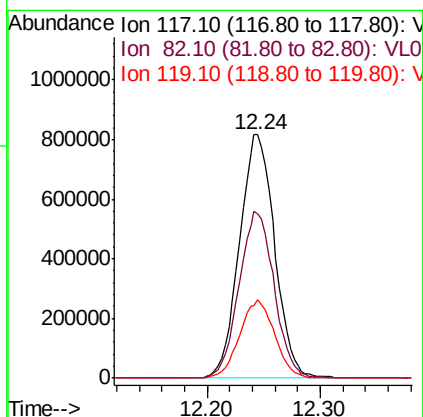
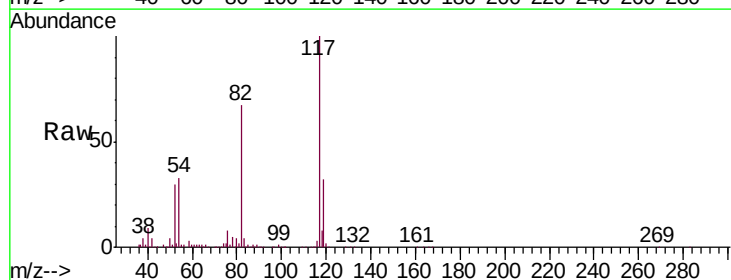
Tgt Ion: 117 Resp: 1769598

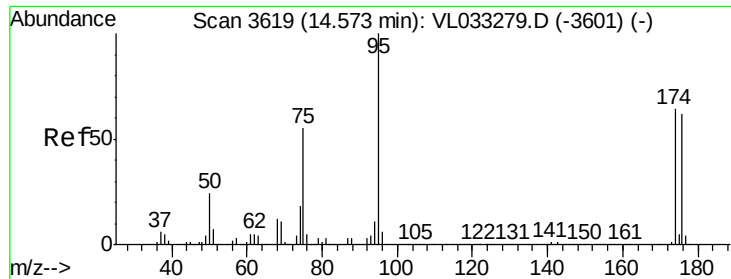
Ion Ratio Lower Upper

117 100

82 68.6 51.1 76.7

119 32.1 43.6 65.4#





#68

1-Bromo-4-Fluorobenzene

Concen: 10.275 ppbv

RT: 14.58 min Scan# 3621

Delta R.T. -0.00 min

Lab File: VL033295.D

Acq: 12 Mar 2019 22:57

Instrument :

MSVOA_L

ClientSampleId :

ST-SS-2DL

Tgt Ion: 95 Resp: 1404178

Ion Ratio Lower Upper

95 100

174 64.9 51.7 77.5

175 4.8 3.7 5.5

