

Data File : VL033289.D
Acq On : 12 Mar 2019 19:00
Operator : SY/AP
Sample : K1805-03DL 10X
Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
ST-DUP-1DL

Quant Time: Mar 13 07:55:10 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	818891	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.29	114	1855537	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.24	117	1851095	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.57	95	1502766	10.51	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	105.10%

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	3.08	85	8639	0.052	ppbv	89
3) Chlorodifluoromethane	3.01	51	5858	0.054	ppbv	92
4) Chloromethane	3.17	50	4351	0.075	ppbv	90
9) Propene	3.04	41	1095	0.022	ppbv #	16
13) Ethanol	3.67	45	8634	0.572	ppbv #	62
15) Acetone	3.91	43	27210	0.217	ppbv #	49
20) Methylene Chloride	4.41	84	12750	0.305	ppbv #	85
25) Ethyl Acetate	5.78	43	8153	0.042	ppbv #	80
26) Hexane	5.78	57	8652	0.095	ppbv #	39
39) 1,2-Dichloropropane	7.29	63	509864	7.917	ppbv #	23
53) Toluene	9.94	91	17061	0.086	ppbv	97

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

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MSVOA_L
ClientSampleId :
ST-DUP-1DL

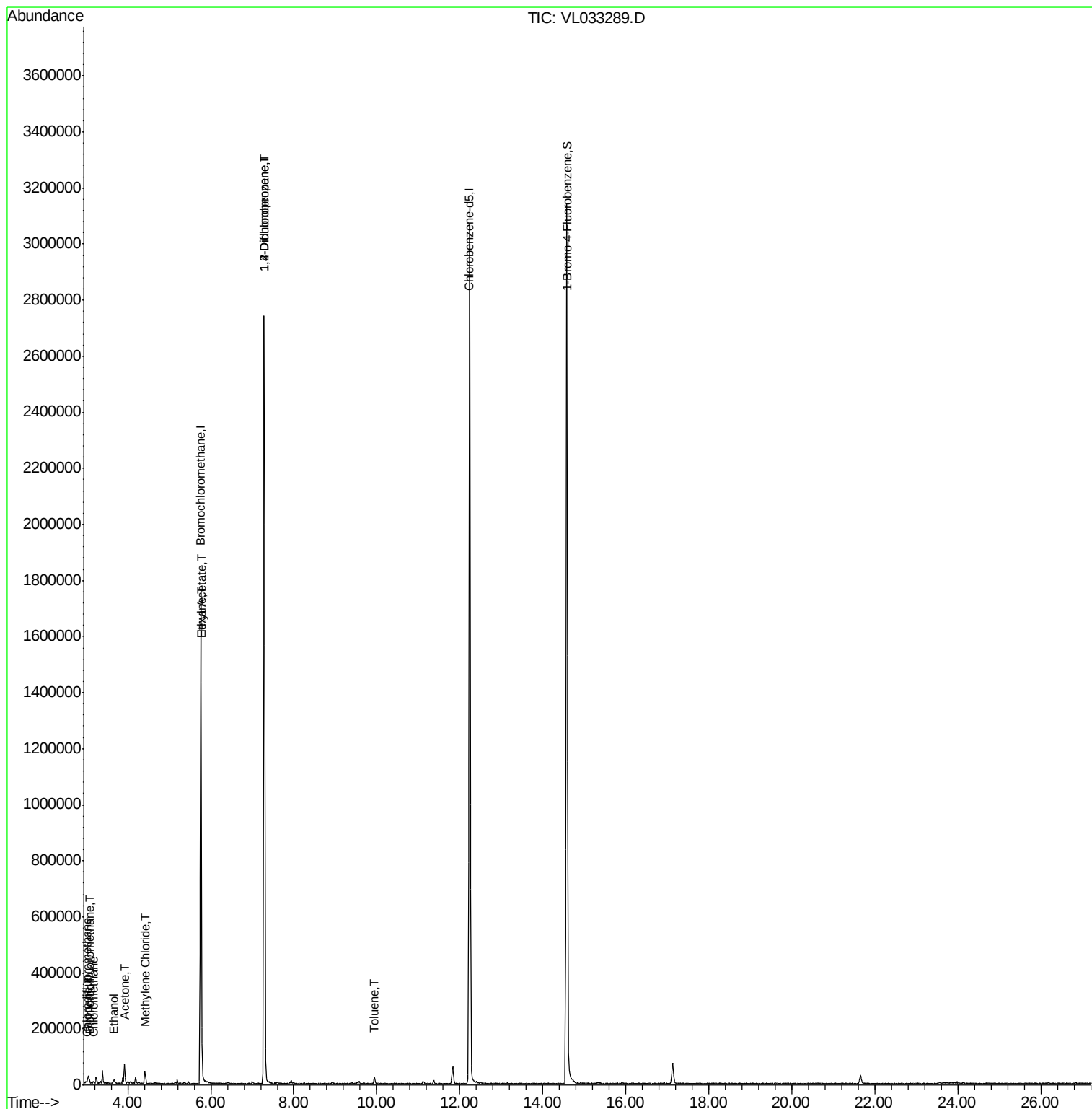
Quant Time: Mar 13 07:55:10 2019

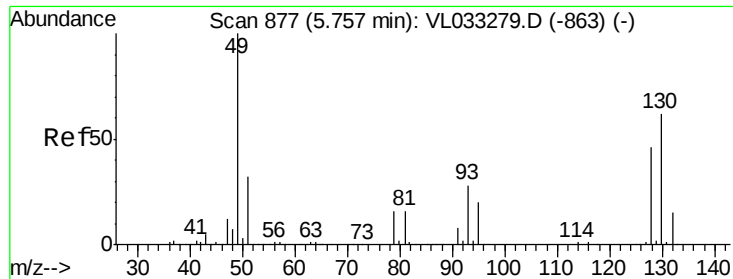
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL031219AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed Mar 13 07:17:55 2019

QLast Update : Wed Mar 13 07:17:55 2019

Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.76 min Scan# 878

Delta R.T. -0.00 min

Lab File: VL033289.D

Acq: 12 Mar 2019 19:00

Instrument :

MSVOA_L

ClientSampleId :

ST-DUP-1DL

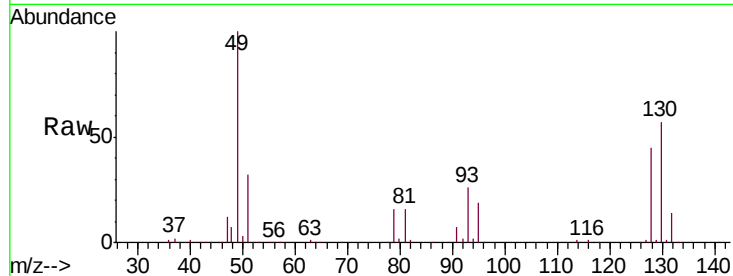
Tgt Ion: 49 Resp: 818891

Ion Ratio Lower Upper

49 100

128 45.9 23.3 69.9

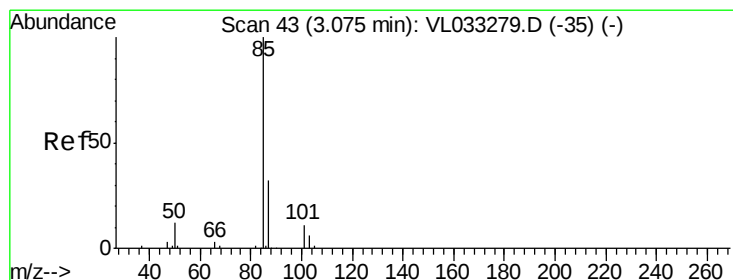
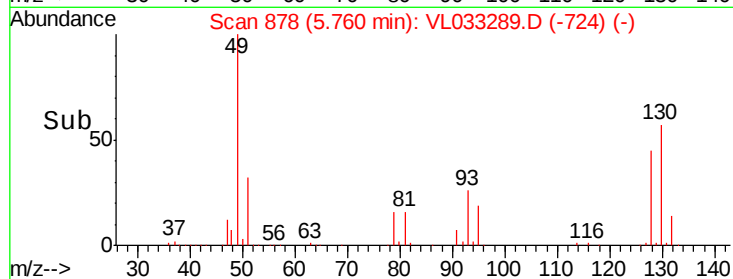
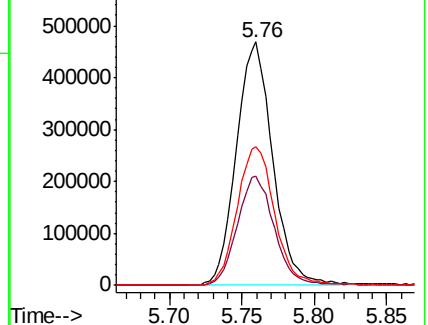
130 59.5 30.0 90.1



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: 0.052 ppbv

RT: 3.08 min Scan# 44

Delta R.T. -0.00 min

Lab File: VL033289.D

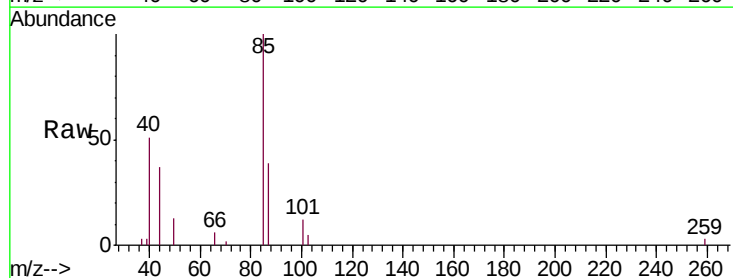
Acq: 12 Mar 2019 19:00

Tgt Ion: 85 Resp: 8639

Ion Ratio Lower Upper

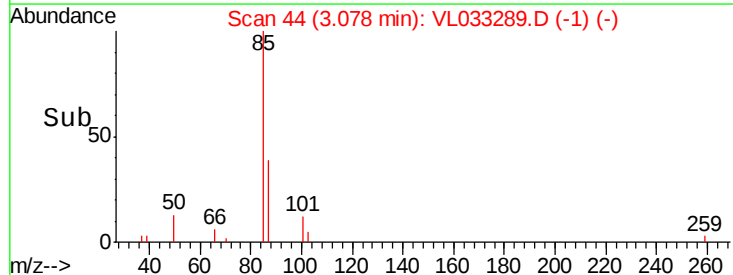
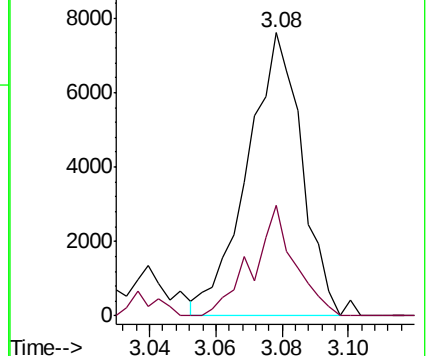
85 100

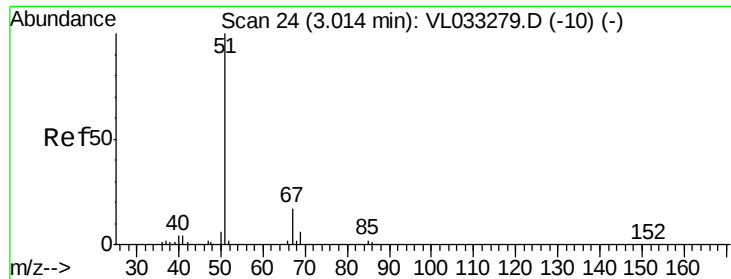
87 39.1 26.4 39.6



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.054 ppbv

RT: 3.01 min Scan# 23

Delta R.T. -0.01 min

Lab File: VL033289.D

Acq: 12 Mar 2019 19:00

Instrument :

MSVOA_L

ClientSampleId :

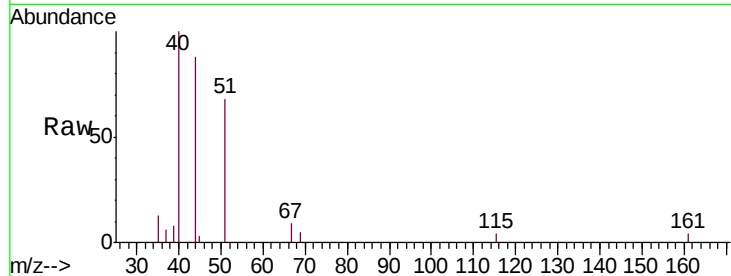
ST-DUP-1DL

Tgt Ion: 51 Resp: 5858

Ion Ratio Lower Upper

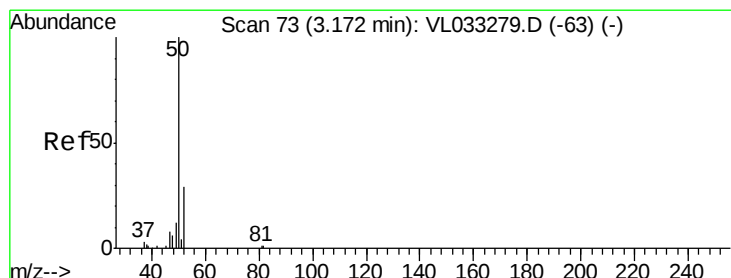
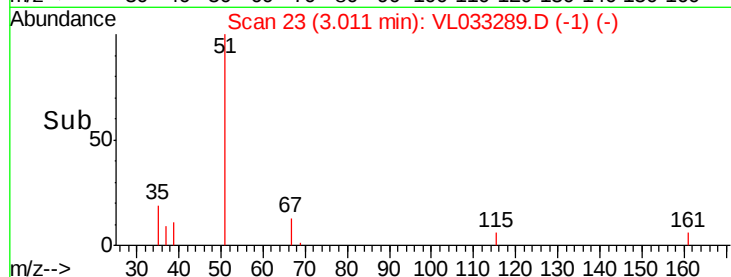
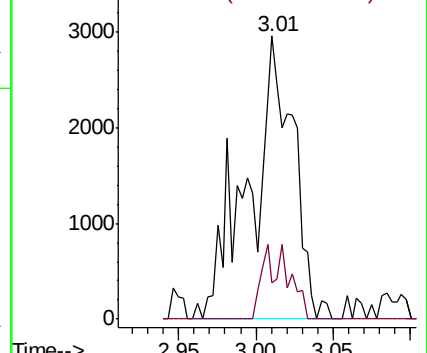
51 100

67 15.1 15.0 22.4



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 0.075 ppbv

RT: 3.17 min Scan# 73

Delta R.T. -0.00 min

Lab File: VL033289.D

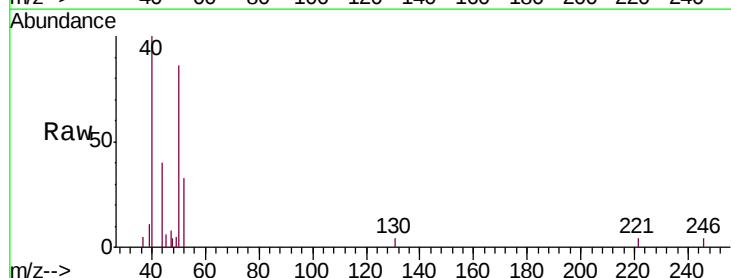
Acq: 12 Mar 2019 19:00

Tgt Ion: 50 Resp: 4351

Ion Ratio Lower Upper

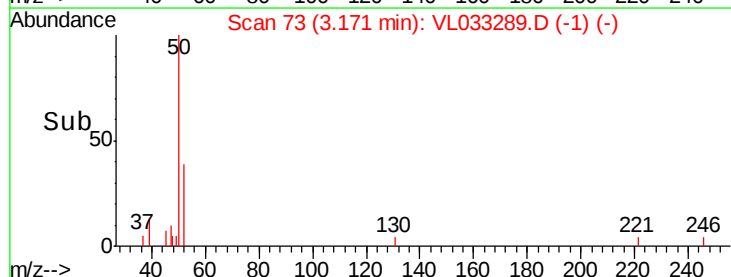
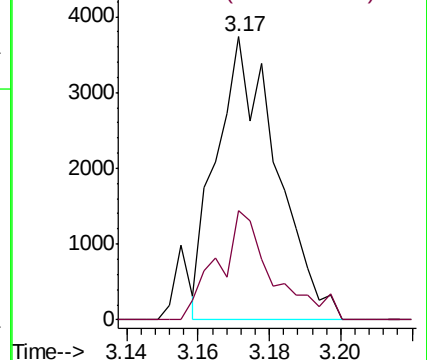
50 100

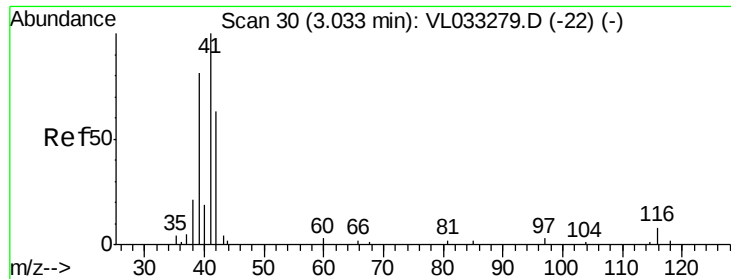
52 38.8 26.6 39.8



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#9

Propene

Concen: 0.022 ppbv

RT: 3.04 min Scan# 31

Delta R.T. -0.00 min

Lab File: VL033289.D

Acq: 12 Mar 2019 19:00

Instrument :

MSVOA_L

ClientSampleId :

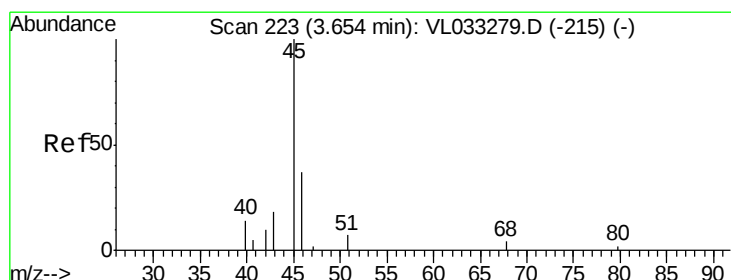
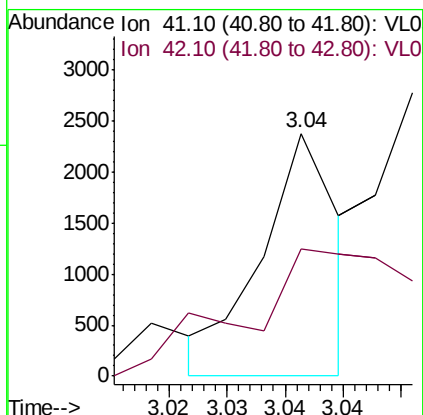
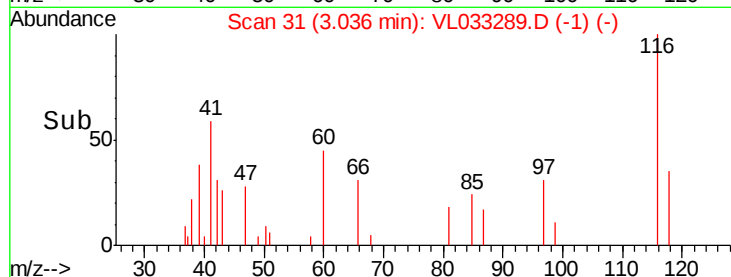
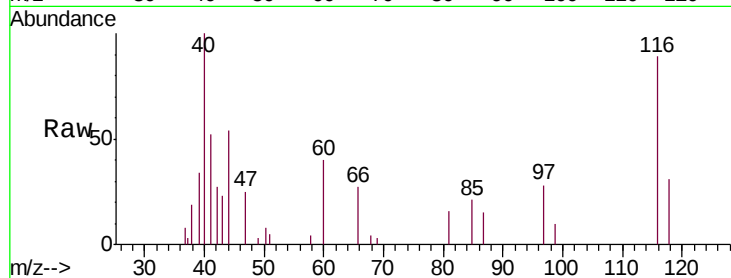
ST-DUP-1DL

Tgt Ion: 41 Resp: 1095

Ion Ratio Lower Upper

41 100

42 0.0 54.6 82.0#



#13

Ethanol

Concen: 0.572 ppbv

RT: 3.67 min Scan# 227

Delta R.T. 0.02 min

Lab File: VL033289.D

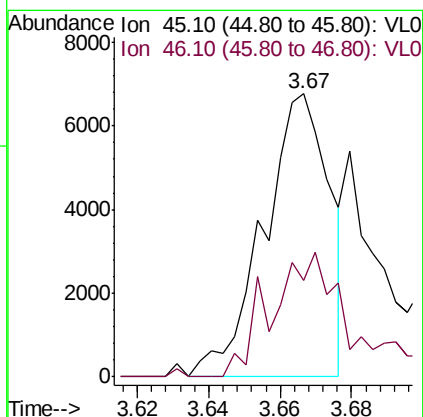
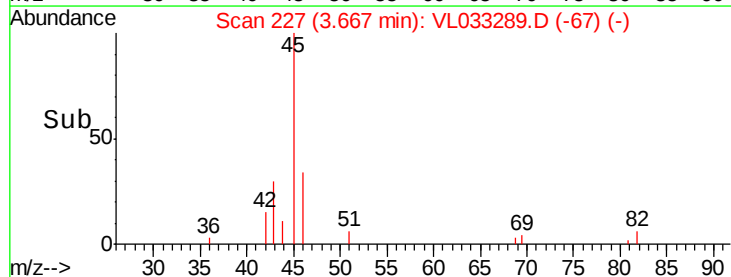
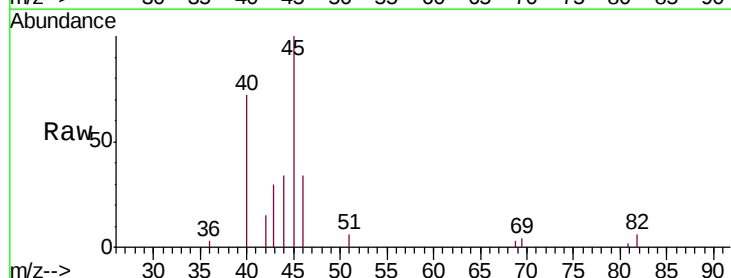
Acq: 12 Mar 2019 19:00

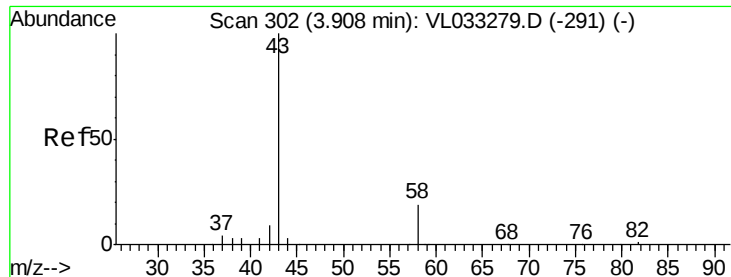
Tgt Ion: 45 Resp: 8634

Ion Ratio Lower Upper

45 100

46 56.6 13.9 55.7#





#15

Acetone

Concen: 0.217 ppbv

RT: 3.91 min Scan# 303

Delta R.T. 0.01 min

Lab File: VL033289.D

Acq: 12 Mar 2019 19:00

Instrument :

MSVOA_L

ClientSampleId :

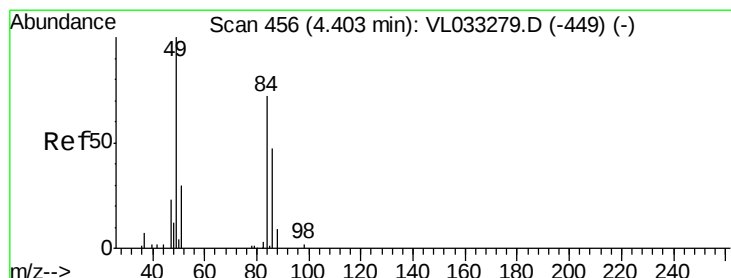
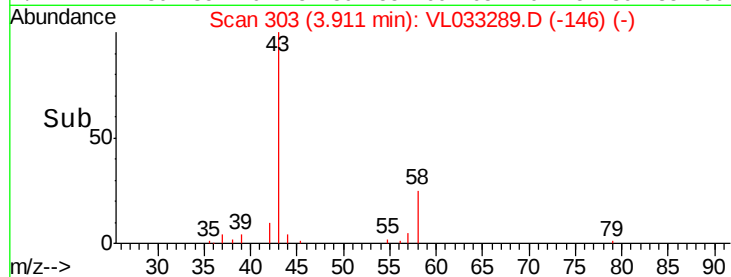
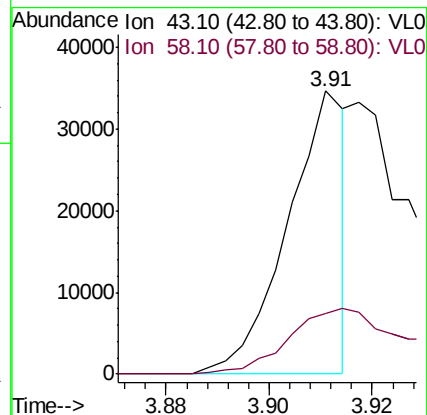
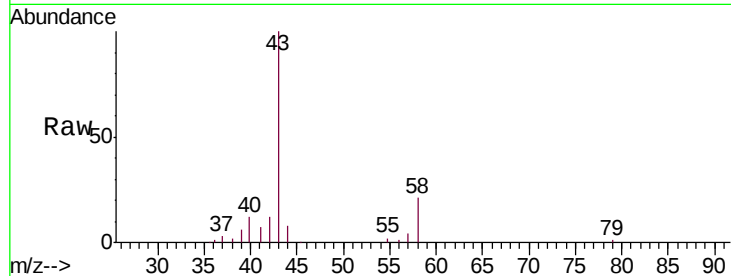
ST-DUP-1DL

Tgt Ion: 43 Resp: 27210

Ion Ratio Lower Upper

43 100

58 0.0 21.1 31.7#



#20

Methylene Chloride

Concen: 0.305 ppbv

RT: 4.41 min Scan# 458

Delta R.T. -0.00 min

Lab File: VL033289.D

Acq: 12 Mar 2019 19:00

Tgt Ion: 84 Resp: 12750

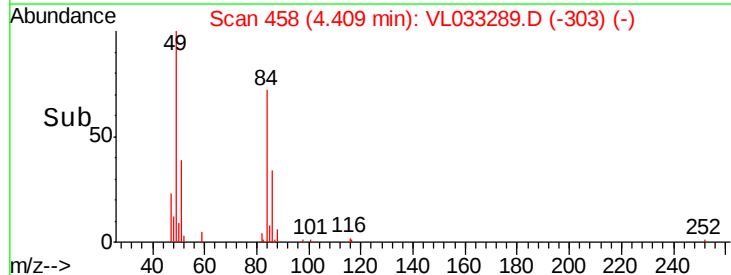
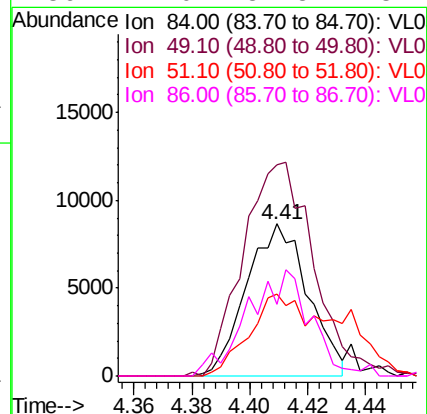
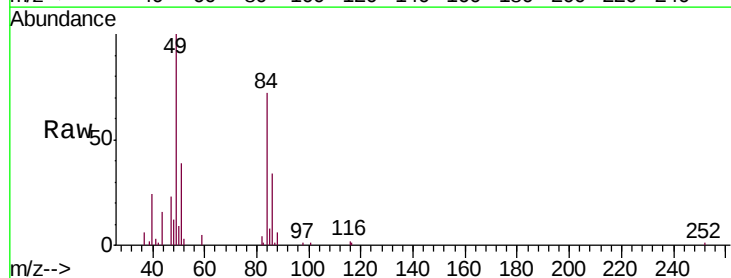
Ion Ratio Lower Upper

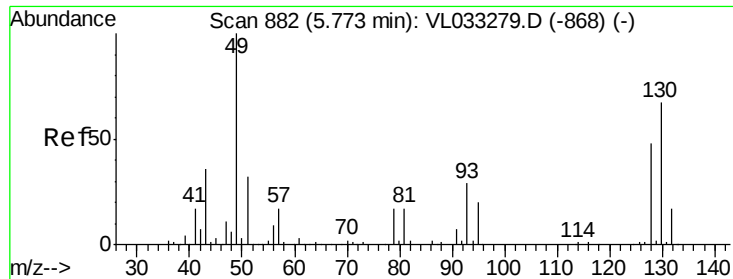
84 100

49 136.3 120.3 180.5

51 53.9 36.2 54.4

86 47.0 52.5 78.7#





#25

Ethyl Acetate

Concen: 0.042 ppbv

RT: 5.78 min Scan# 883

Delta R.T. 0.00 min

Lab File: VL033289.D

Acq: 12 Mar 2019 19:00

Instrument :

MSVOA_L

ClientSampleId :

ST-DUP-1DL

Tgt Ion: 43 Resp: 8153

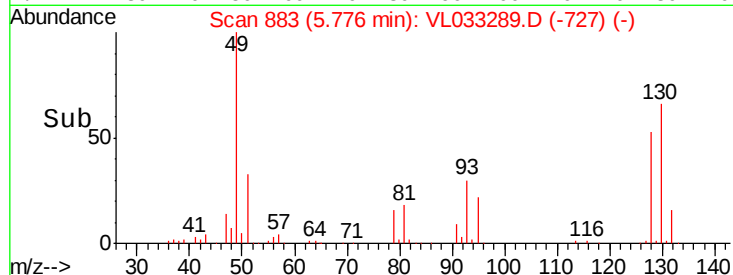
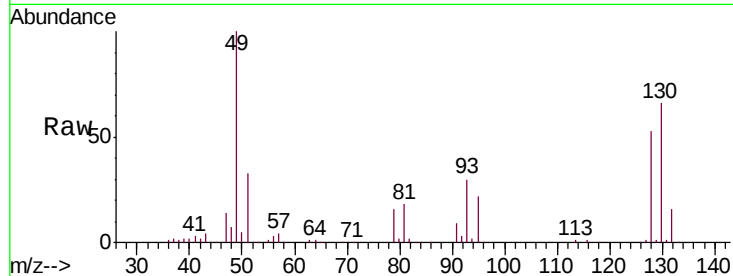
Ion Ratio Lower Upper

43 100

45 1.3 7.8 11.6#

61 0.5 7.3 10.9#

70 2.7 5.8 8.6#



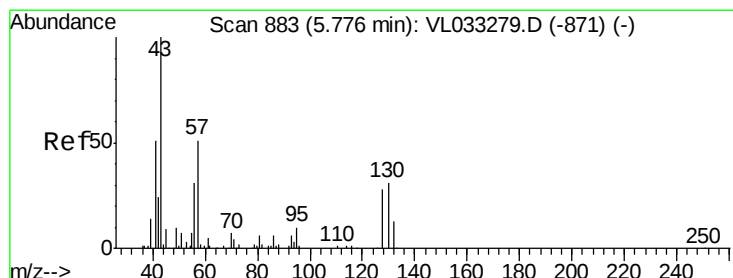
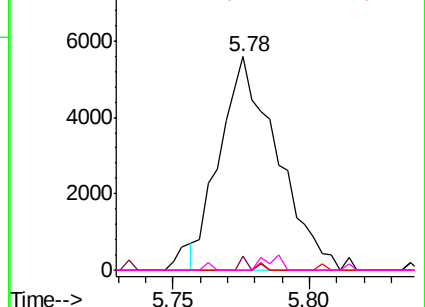
Abundance

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: 0.095 ppbv

RT: 5.78 min Scan# 883

Delta R.T. -0.01 min

Lab File: VL033289.D

Acq: 12 Mar 2019 19:00

Tgt Ion: 57 Resp: 8652

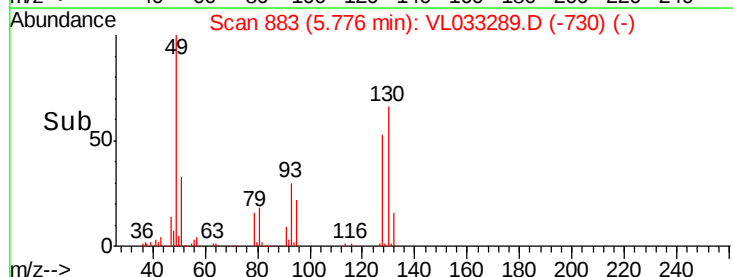
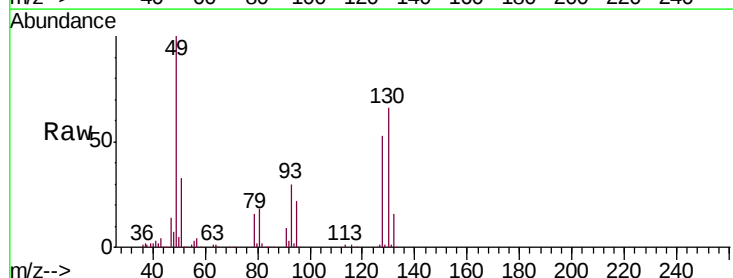
Ion Ratio Lower Upper

57 100

41 125.1 70.7 106.1#

43 98.4 178.6 267.8#

56 73.7 41.3 61.9#



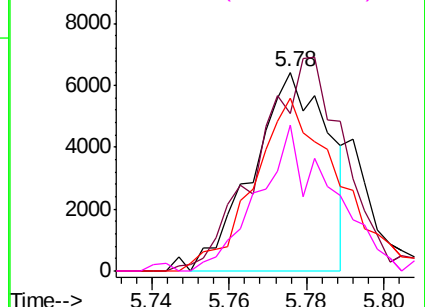
Abundance

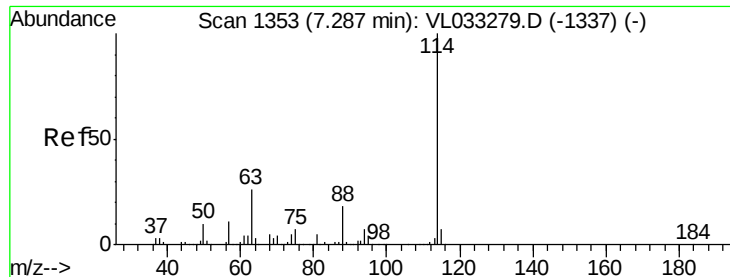
Ion 57.10 (56.80 to 57.80): VL0

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

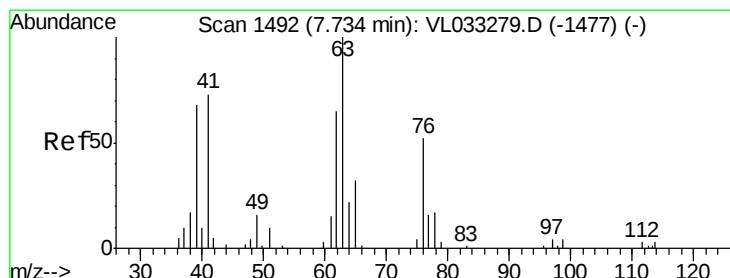
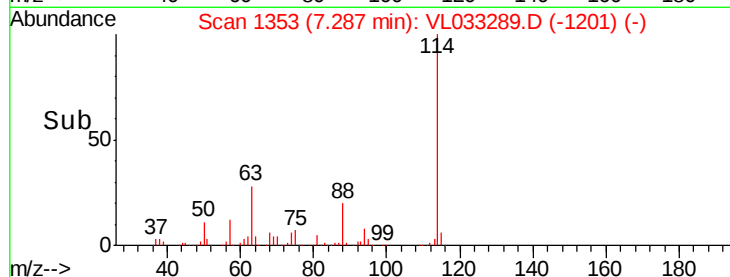
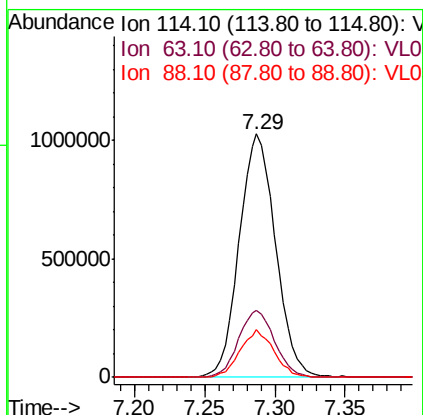
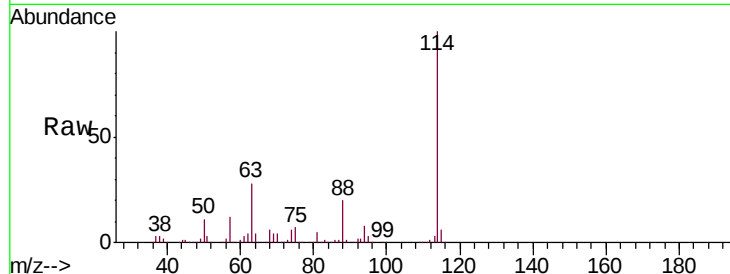




#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.29 min Scan# 1353
 Delta R.T. -0.01 min
 Lab File: VL033289.D
 Acq: 12 Mar 2019 19:00

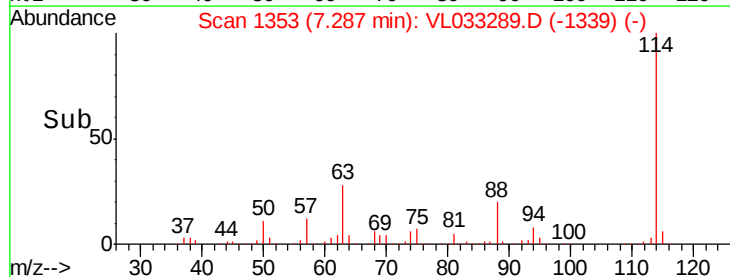
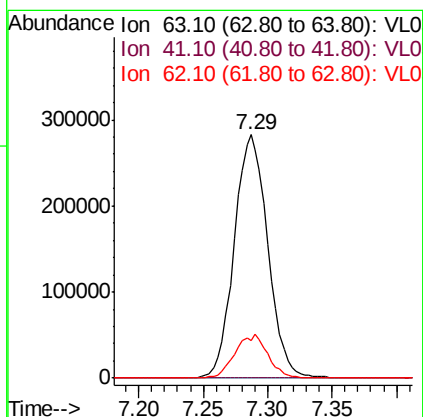
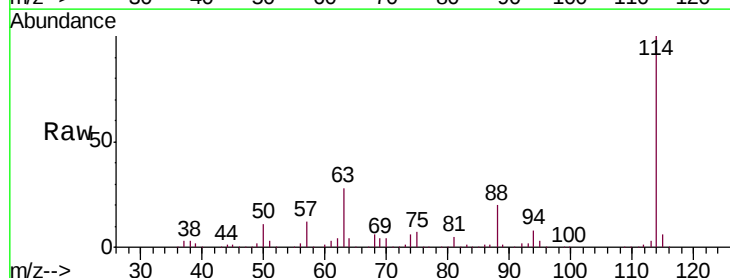
Instrument :
 MSVOA_L
 ClientSampleId :
 ST-DUP-1DL

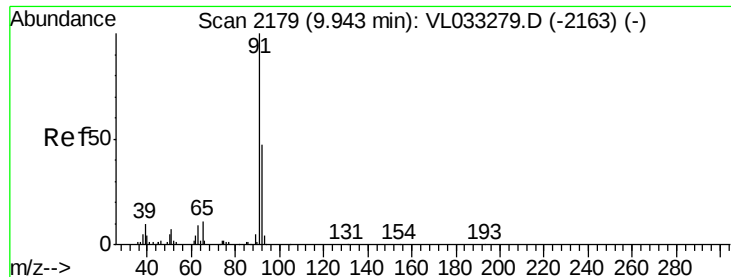
Tgt Ion: 114 Resp: 185537
 Ion Ratio Lower Upper
 114 100
 63 27.5 21.5 32.3
 88 18.5 14.6 22.0



#39
 1,2-Dichloropropane
 Concen: 7.917 ppbv
 RT: 7.29 min Scan# 1353
 Delta R.T. -0.45 min
 Lab File: VL033289.D
 Acq: 12 Mar 2019 19:00

Tgt Ion: 63 Resp: 509864
 Ion Ratio Lower Upper
 63 100
 41 0.0 58.3 87.5#
 62 15.4 55.3 82.9#





#53

Toluene

Concen: 0.086 ppbv

RT: 9.94 min Scan# 2178

Delta R.T. -0.01 min

Lab File: VL033289.D

Acq: 12 Mar 2019 19:00

Instrument :

MSVOA_L

ClientSampleId :

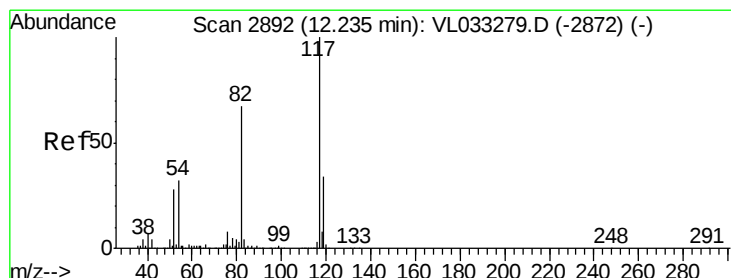
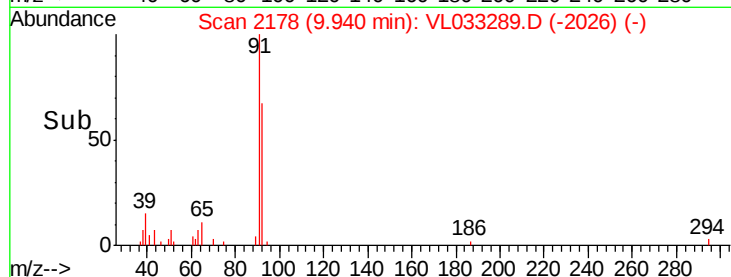
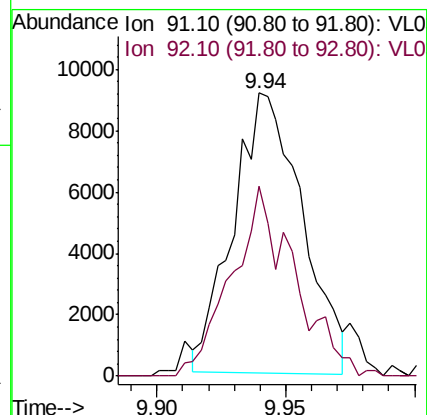
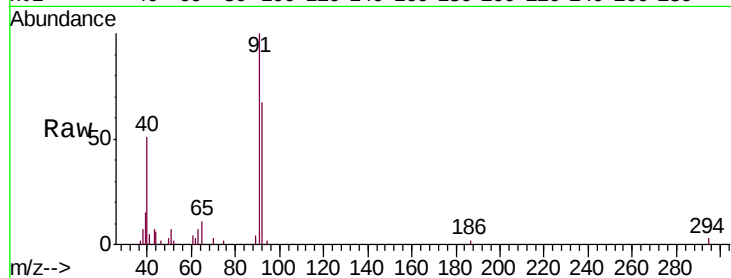
ST-DUP-1DL

Tgt Ion: 91 Resp: 17061

Ion Ratio Lower Upper

91 100

92 61.7 47.8 71.8



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.24 min Scan# 2892

Delta R.T. -0.01 min

Lab File: VL033289.D

Acq: 12 Mar 2019 19:00

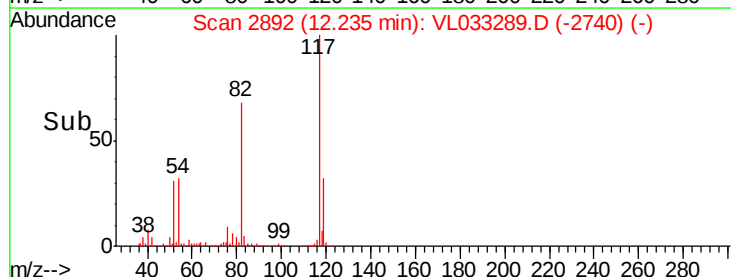
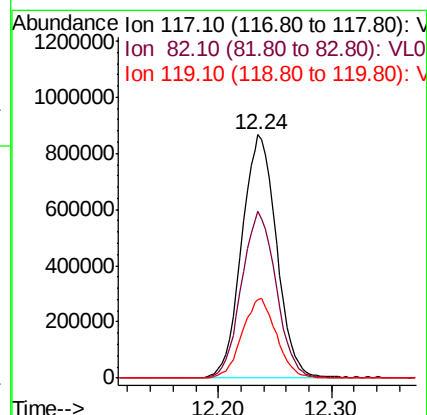
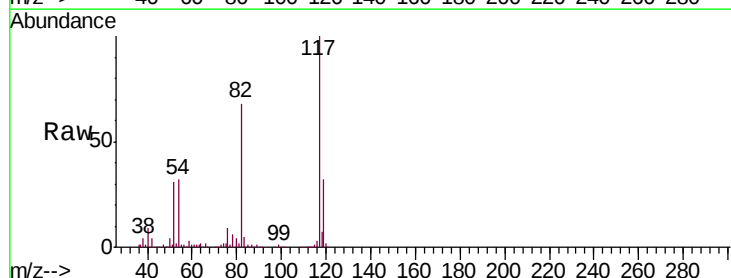
Tgt Ion: 117 Resp: 1851095

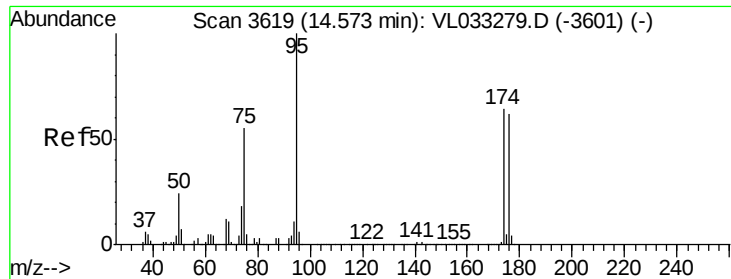
Ion Ratio Lower Upper

117 100

82 68.7 51.1 76.7

119 32.4 43.6 65.4#





#68

1-Bromo-4-Fluorobenzene

Concen: 10.513 ppbv

RT: 14.57 min Scan# 3619

Delta R.T. -0.01 min

Lab File: VL033289.D

Acq: 12 Mar 2019 19:00

Instrument :

MSVOA_L

ClientSampleId :

ST-DUP-1DL

Tgt Ion: 95 Resp: 1502766

Ion Ratio Lower Upper

95 100

174 64.1 51.7 77.5

175 4.7 3.7 5.5

