

Data File : VL033870.D
Acq On : 30 May 2019 14:35
Operator : SY/AP
Sample : K3067-09DL DUP 8X
Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
SG-23-20190523-0

Quant Time: May 31 07:08:09 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	5.75	49	651861	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.28	114	1450120	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.23	117	1461296	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.57	95	1196466	10.10	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	101.00%

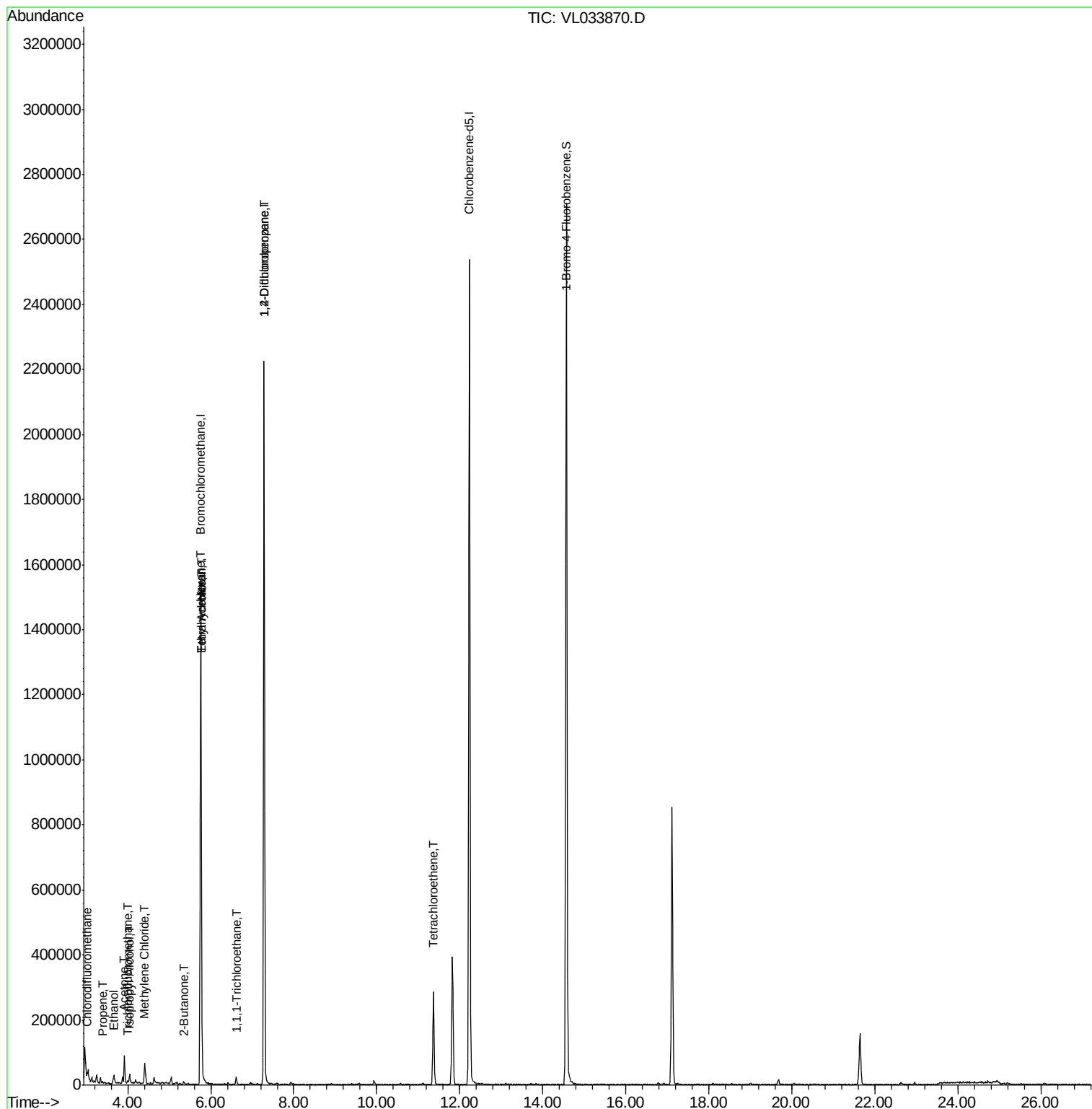
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chlorodifluoromethane	3.01	51	5891	0.079	ppbv #	71
9) Propene	3.39	41	975	0.031	ppbv	96
11) Trichlorofluoromethane	4.00	101	4019	0.031	ppbv #	61
13) Ethanol	3.67	45	20372	1.985	ppbv	93
15) Acetone	3.91	43	74787	0.827	ppbv	96
19) Isopropyl Alcohol	4.05	45	21051	0.361	ppbv #	82
20) Methylene Chloride	4.41	84	21908	0.629	ppbv	92
25) Ethyl Acetate	5.78	43	60518	0.381	ppbv #	79
26) Hexane	5.77	57	80685	1.181	ppbv #	38
32) 1,1,1-Trichloroethane	6.61	97	5290	0.042	ppbv #	4
34) 2-Butanone	5.35	43	6919	0.077	ppbv	98
39) 1,2-Dichloropropane	7.28	63	388063	7.891	ppbv #	24
41) Tetrahydrofuran	5.78	42	37744	0.749	ppbv #	47
52) Tetrachloroethene	11.36	164	63404	1.367	ppbv	93

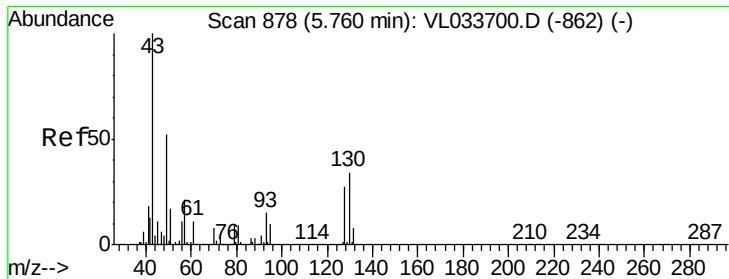
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Fri May 17 08:15:41 2019
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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.75 min Scan# 876

Delta R.T. -0.01 min

Lab File: VL033870.D

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MSVOA_L

ClientSampleId :

SG-23-20190523-0

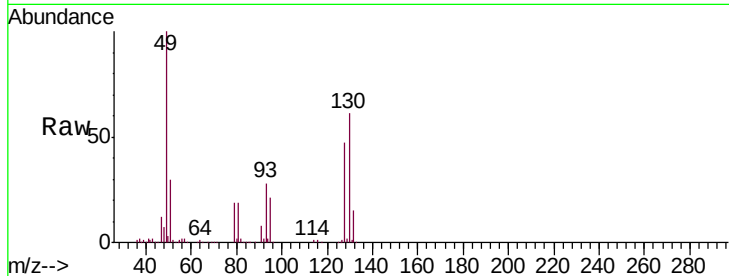
Tgt Ion: 49 Resp: 651861

Ion Ratio Lower Upper

49 100

128 49.5 25.2 75.6

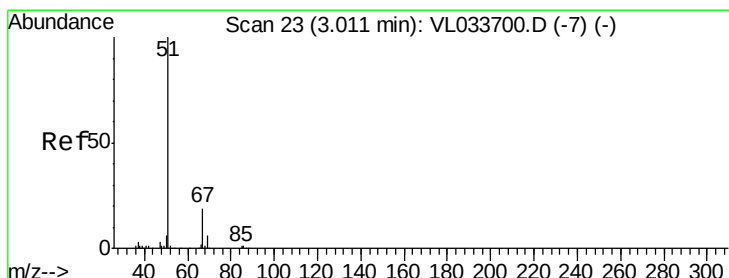
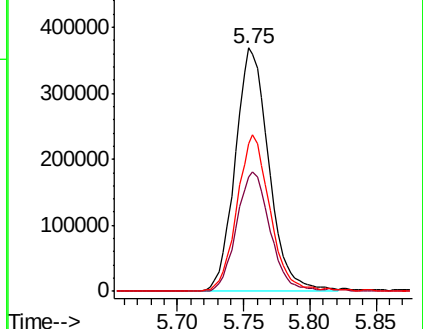
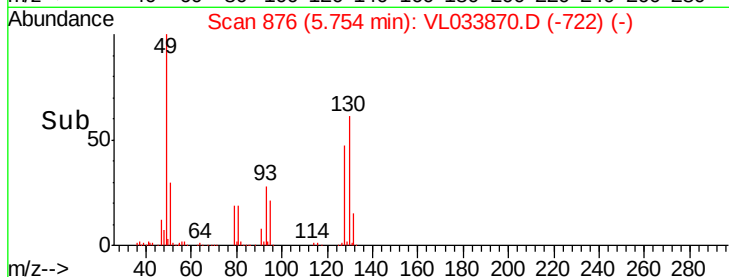
130 63.5 32.5 97.5



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): VL0

Ion 130.00 (129.70 to 130.70): VL0



#3

Chlorodifluoromethane

Concen: 0.079 ppbv

RT: 3.01 min Scan# 24

Delta R.T. 0.00 min

Lab File: VL033870.D

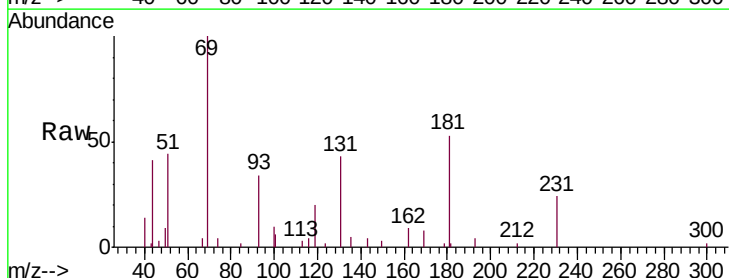
Acq: 30 May 2019 14:35

Tgt Ion: 51 Resp: 5891

Ion Ratio Lower Upper

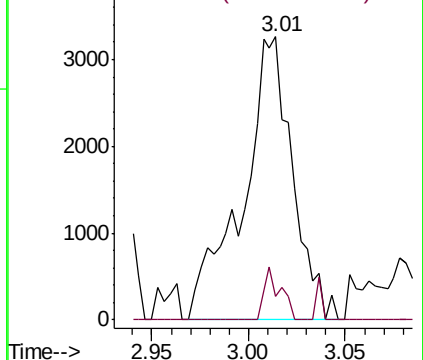
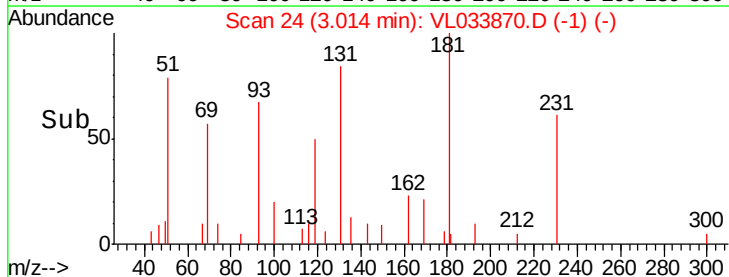
51 100

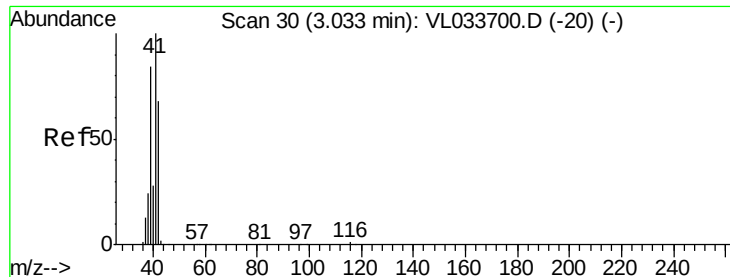
67 6.1 15.6 23.4#



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0





#9

Propene

Concen: 0.031 ppbv

RT: 3.39 min Scan# 140

Delta R.T. 0.35 min

Lab File: VL033870.D

Acq: 30 May 2019 14:35

Instrument :

MSVOA_L

ClientSampleId :

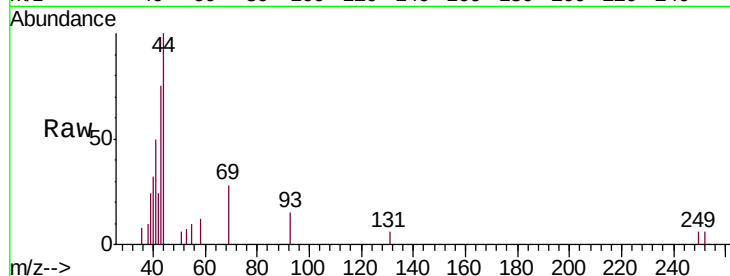
SG-23-20190523-0

Tgt Ion: 41 Resp: 975

Ion Ratio Lower Upper

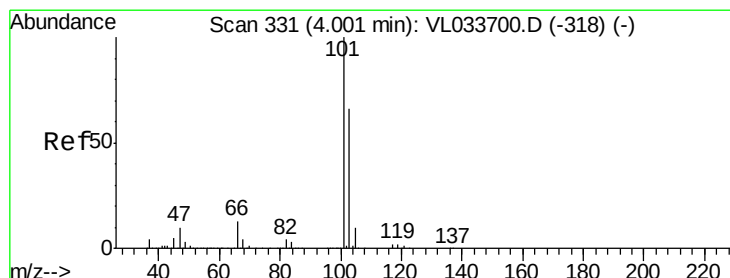
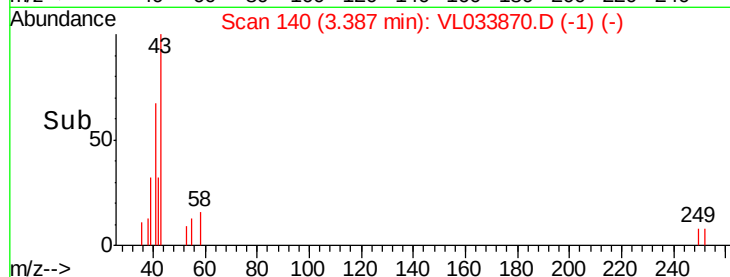
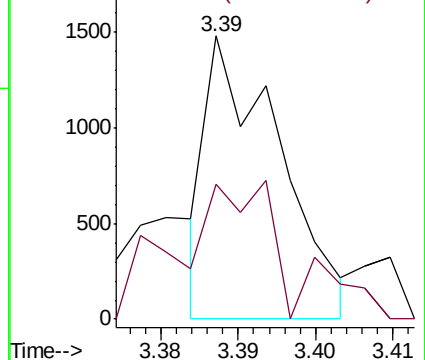
41 100

42 73.4 56.1 84.1



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0



#11

Trichlorofluoromethane

Concen: 0.031 ppbv

RT: 4.00 min Scan# 330

Delta R.T. -0.00 min

Lab File: VL033870.D

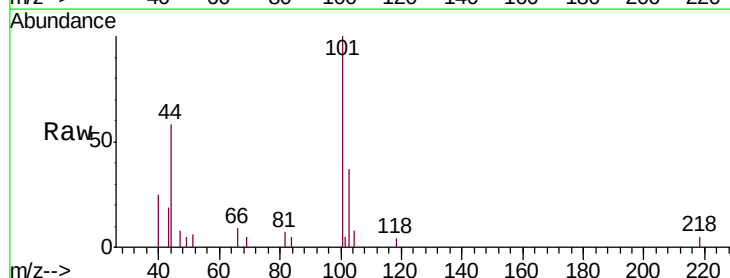
Acq: 30 May 2019 14:35

Tgt Ion: 101 Resp: 4019

Ion Ratio Lower Upper

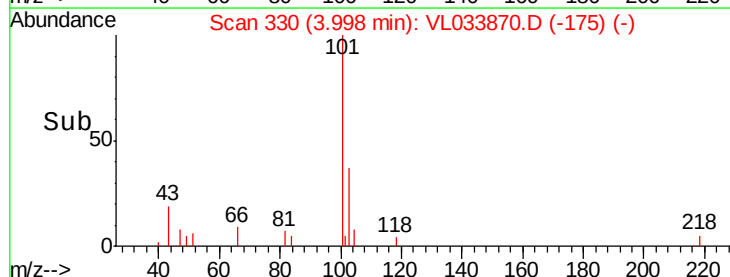
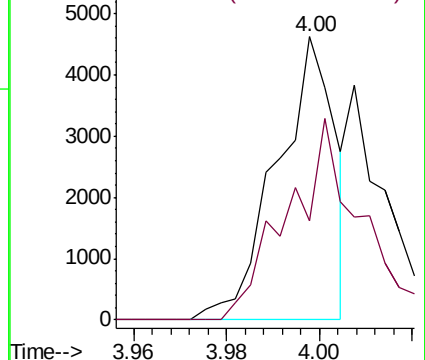
101 100

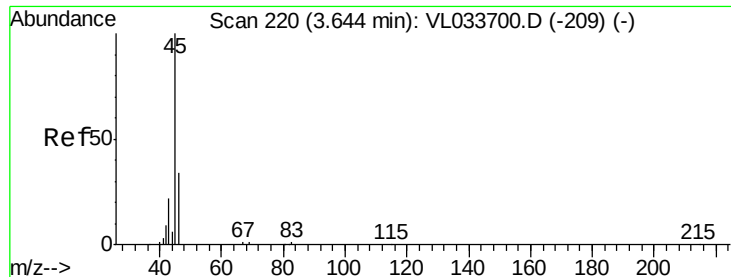
103 35.1 52.6 78.8#



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V





#13

Ethanol

Concen: 1.985 ppbv

RT: 3.67 min Scan# 227

Delta R.T. 0.02 min

Lab File: VL033870.D

Acq: 30 May 2019 14:35

Instrument :

MSVOA_L

ClientSampleId :

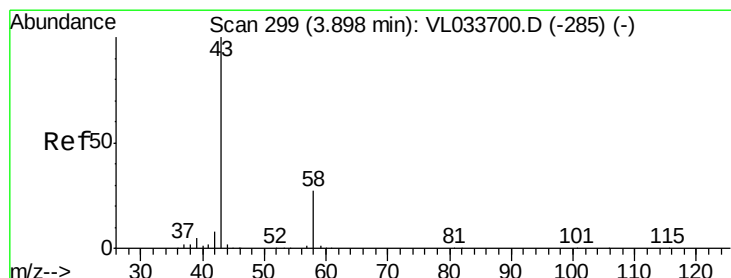
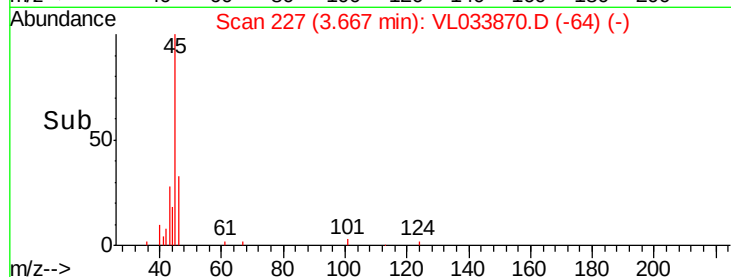
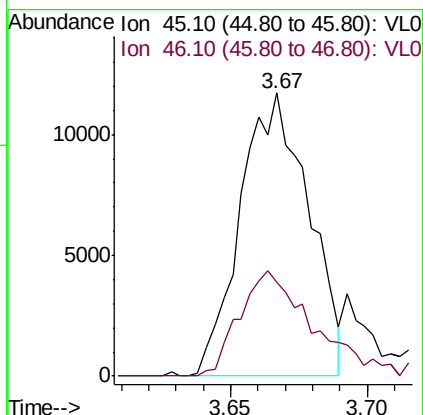
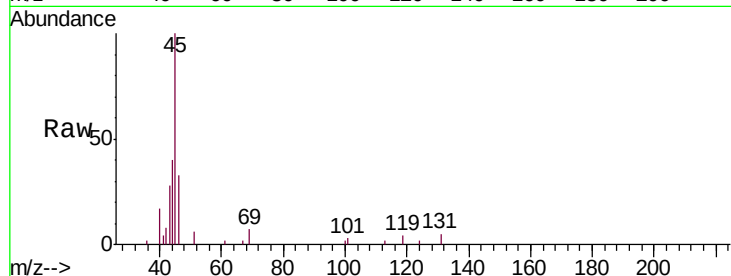
SG-23-20190523-0

Tgt Ion: 45 Resp: 20372

Ion Ratio Lower Upper

45 100

46 41.0 14.8 59.0



#15

Acetone

Concen: 0.827 ppbv

RT: 3.91 min Scan# 304

Delta R.T. 0.02 min

Lab File: VL033870.D

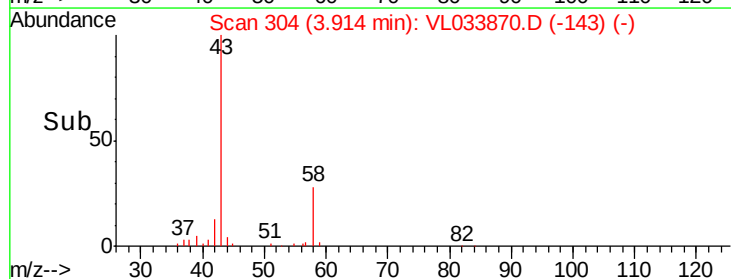
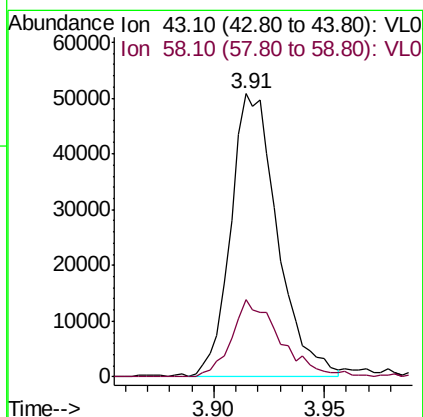
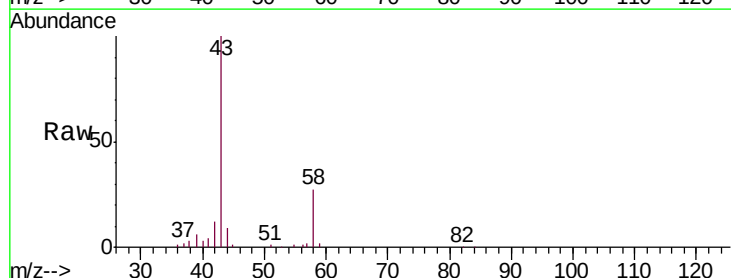
Acq: 30 May 2019 14:35

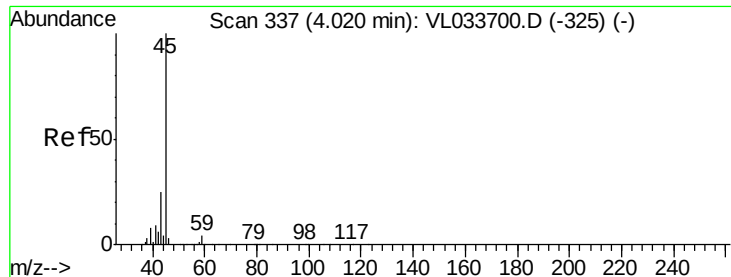
Tgt Ion: 43 Resp: 74787

Ion Ratio Lower Upper

43 100

58 28.4 21.3 31.9





#19

Isopropyl Alcohol

Concen: 0.361 ppbv

RT: 4.05 min Scan# 345

Delta R.T. 0.03 min

Lab File: VL033870.D

Acq: 30 May 2019 14:35

Instrument :

MSVOA_L

ClientSampleId :

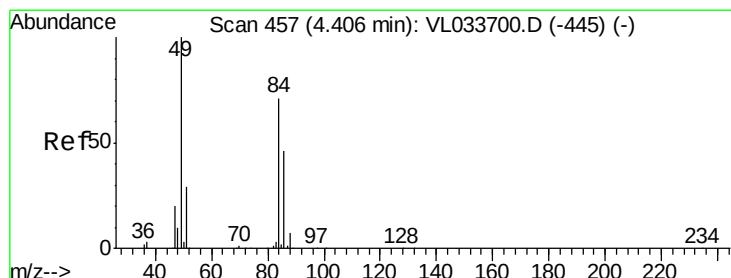
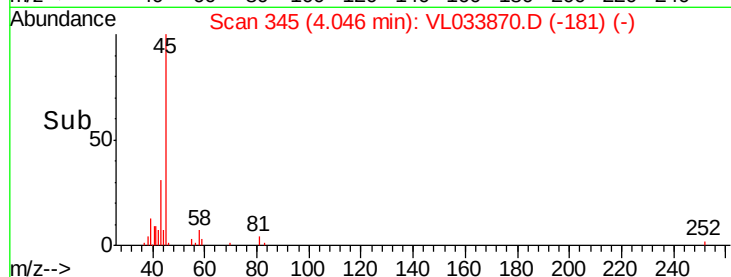
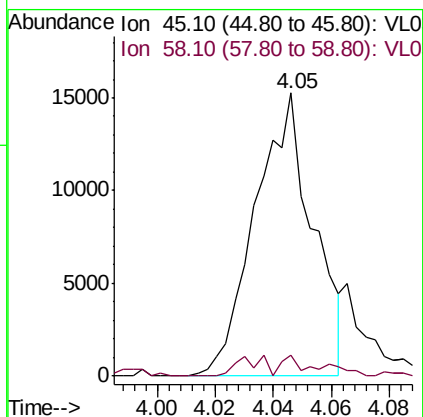
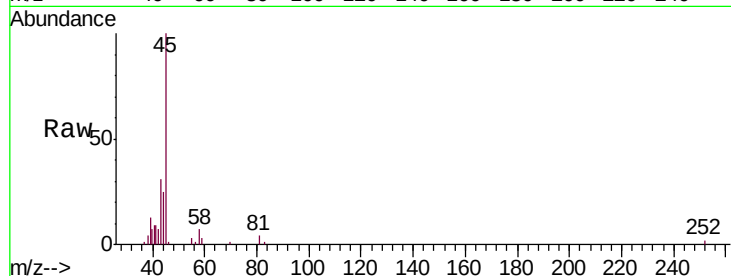
SG-23-20190523-0

Tgt Ion: 45 Resp: 21051

Ion Ratio Lower Upper

45 100

58 8.3 1.6 2.4#



#20

Methylene Chloride

Concen: 0.629 ppbv

RT: 4.41 min Scan# 457

Delta R.T. 0.00 min

Lab File: VL033870.D

Acq: 30 May 2019 14:35

Tgt Ion: 84 Resp: 21908

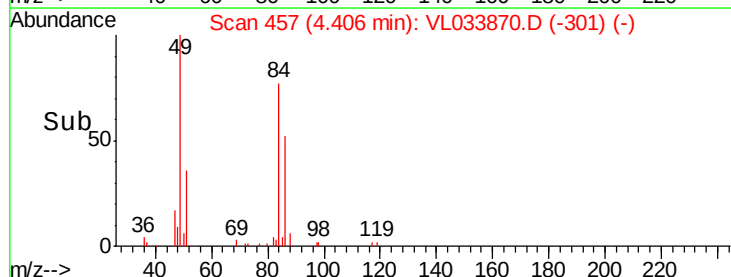
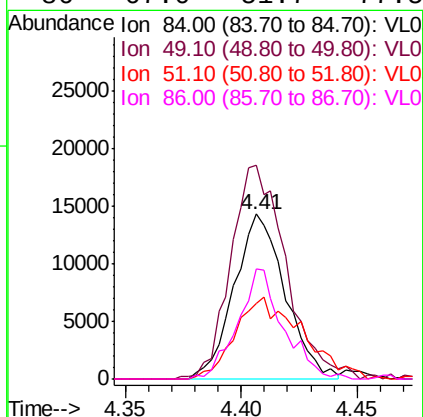
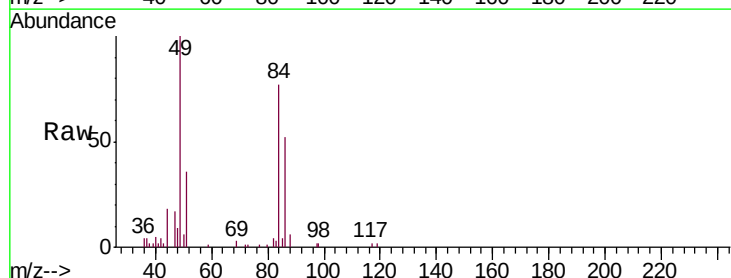
Ion Ratio Lower Upper

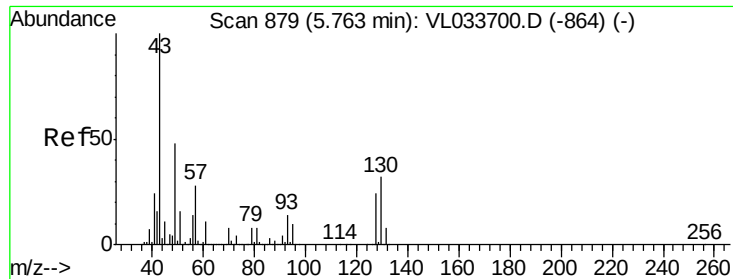
84 100

49 127.8 112.8 169.2

51 46.1 33.4 50.0

86 67.0 51.7 77.5

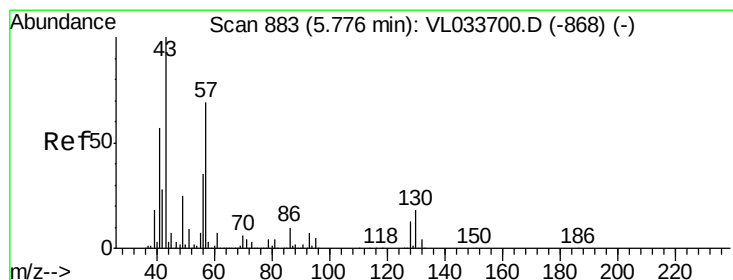
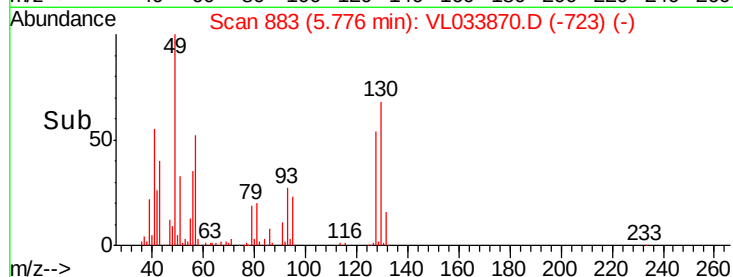
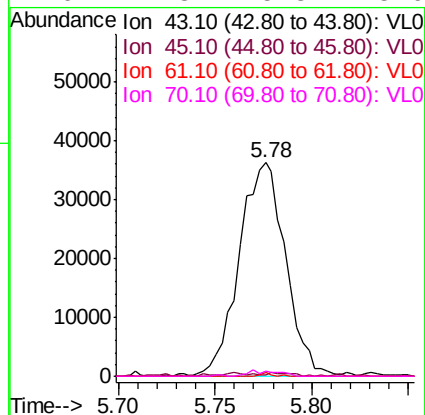
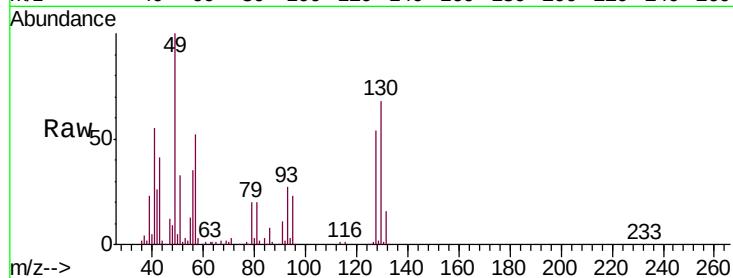




#25
Ethyl Acetate
Concen: 0.381 ppbv
RT: 5.78 min Scan# 883
Delta R.T. 0.01 min
Lab File: VL033870.D
Acq: 30 May 2019 14:35

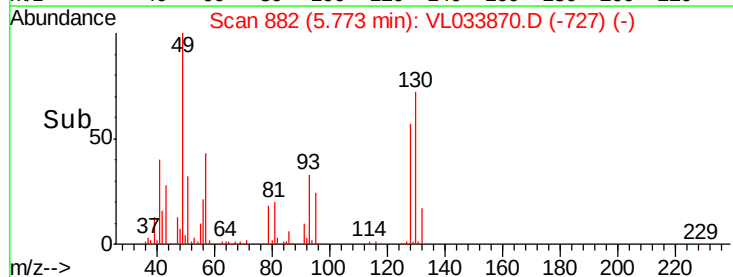
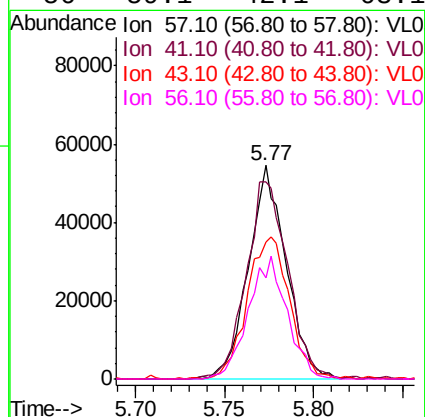
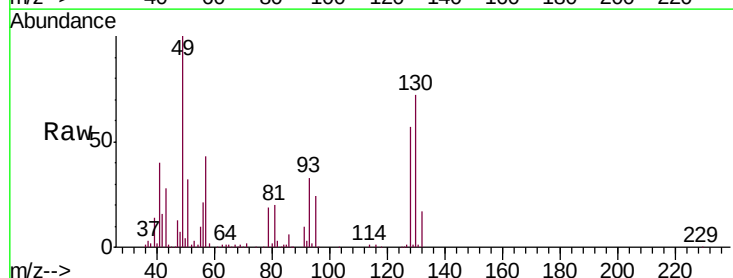
Instrument :
MSVOA_L
ClientSampleId :
SG-23-20190523-0

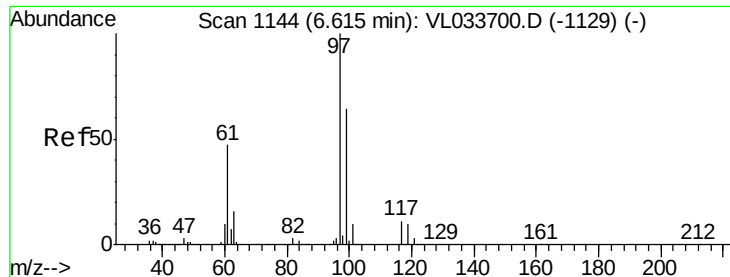
Tgt Ion:	43	Resp:	60518
Ion	Ratio	Lower	Upper
43	100		
45	2.1	7.9	11.9#
61	0.4	7.7	11.5#
70	1.8	5.8	8.6#



#26
Hexane
Concen: 1.181 ppbv
RT: 5.77 min Scan# 882
Delta R.T. -0.00 min
Lab File: VL033870.D
Acq: 30 May 2019 14:35

Tgt Ion:	57	Resp:	80685
Ion	Ratio	Lower	Upper
57	100		
41	103.3	69.8	104.6
43	76.4	181.8	272.6#
56	59.1	42.1	63.1





#32

1,1,1-Trichloroethane

Concen: 0.042 ppbv

RT: 6.61 min Scan# 1141

Delta R.T. -0.01 min

Lab File: VL033870.D

Acq: 30 May 2019 14:35

Instrument :

MSVOA_L

ClientSampleId :

SG-23-20190523-0

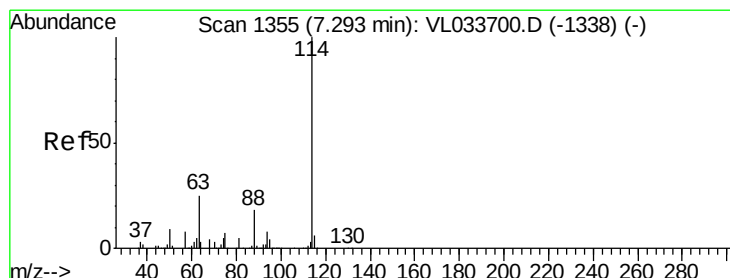
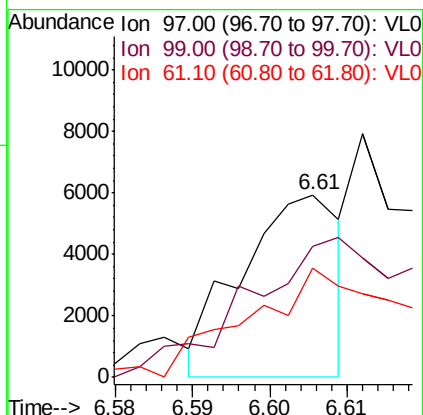
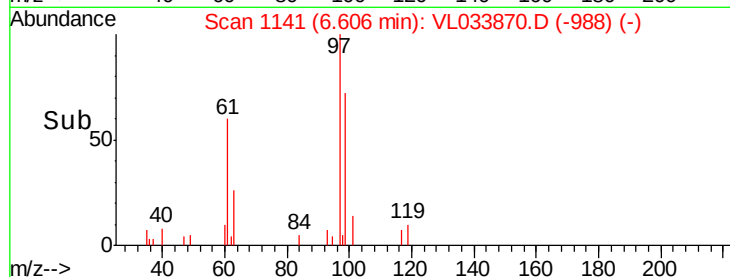
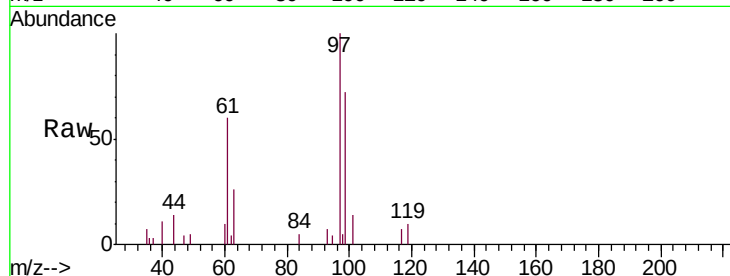
Tgt Ion: 97 Resp: 5290

Ion Ratio Lower Upper

97 100

99 0.0 51.5 77.3#

61 124.1 37.8 56.8#



#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.28 min Scan# 1352

Delta R.T. -0.01 min

Lab File: VL033870.D

Acq: 30 May 2019 14:35

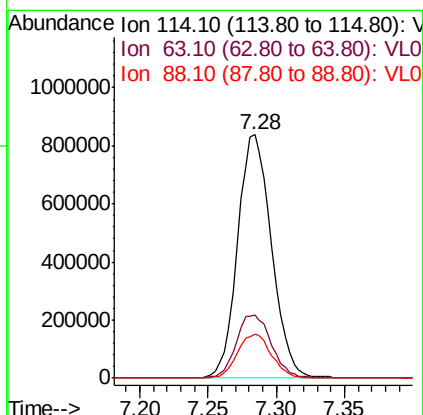
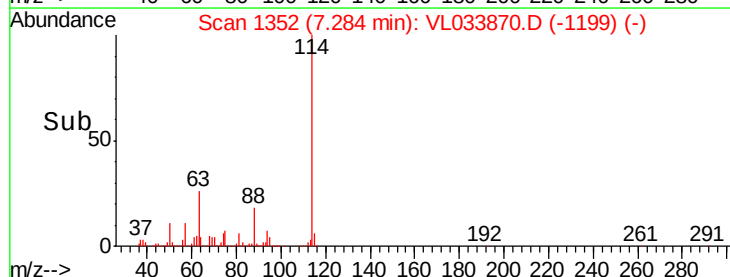
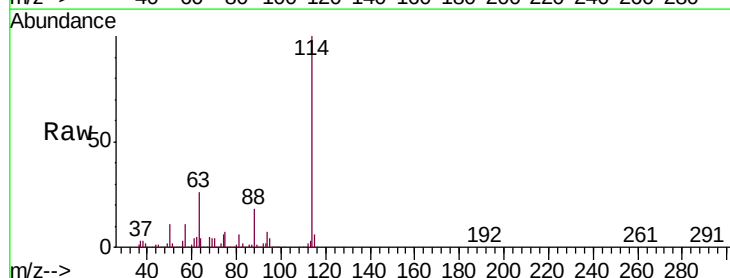
Tgt Ion: 114 Resp: 1450120

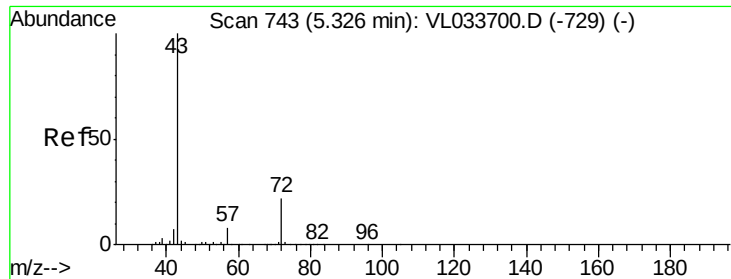
Ion Ratio Lower Upper

114 100

63 26.9 20.9 31.3

88 18.1 14.3 21.5

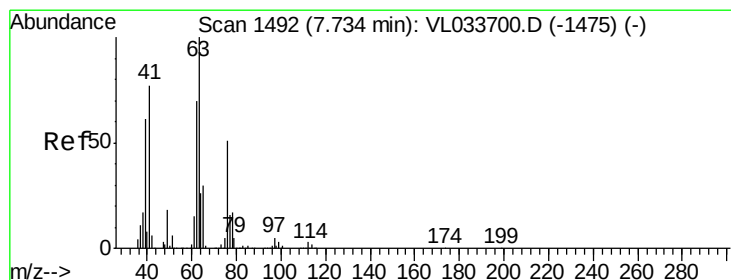
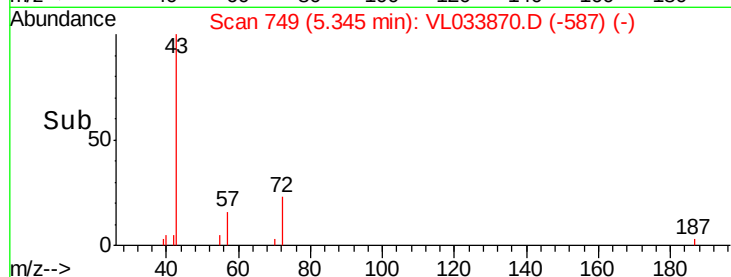
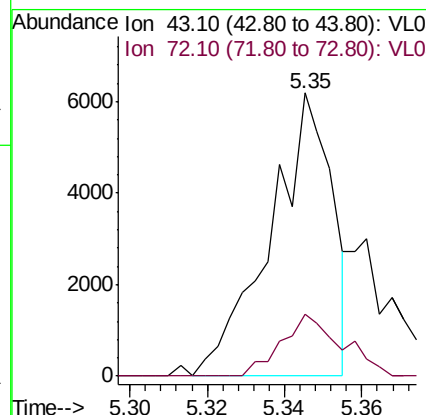
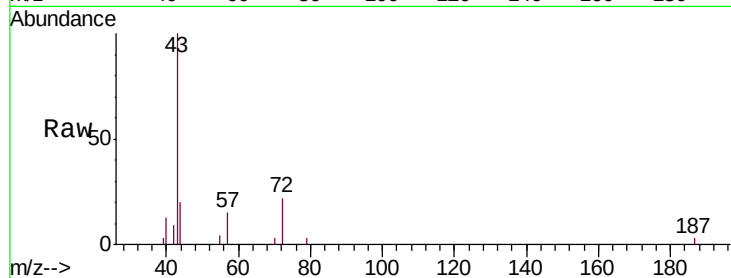




#34
2-Butanone
Concen: 0.077 ppbv
RT: 5.35 min Scan# 749
Delta R.T. 0.02 min
Lab File: VL033870.D
Acq: 30 May 2019 14:35

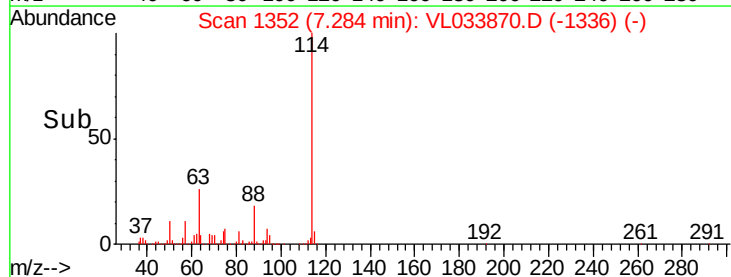
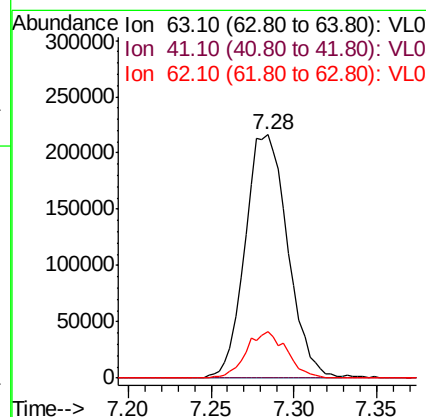
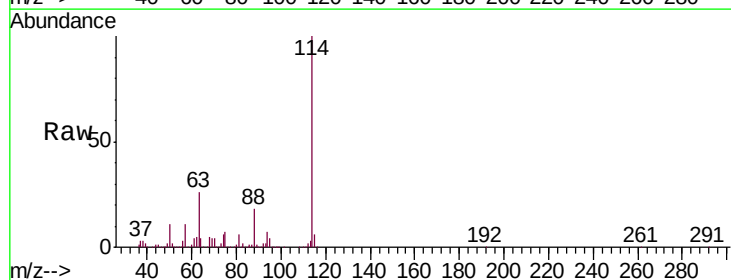
Instrument :
MSVOA_L
ClientSampleId :
SG-23-20190523-0

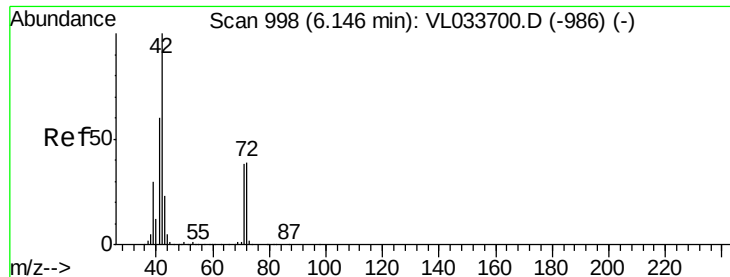
Tgt Ion: 43 Resp: 6919
Ion Ratio Lower Upper
43 100
72 21.1 17.8 26.6



#39
1,2-Dichloropropane
Concen: 7.891 ppbv
RT: 7.28 min Scan# 1352
Delta R.T. -0.45 min
Lab File: VL033870.D
Acq: 30 May 2019 14:35

Tgt Ion: 63 Resp: 388063
Ion Ratio Lower Upper
63 100
41 0.0 61.5 92.3#
62 19.1 56.2 84.4#





#41

Tetrahydrofuran

Concen: 0.749 ppbv

RT: 5.78 min Scan# 883

Delta R.T. -0.37 min

Lab File: VL033870.D

Acq: 30 May 2019 14:35

Instrument :

MSVOA_L

ClientSampleId :

SG-23-20190523-0

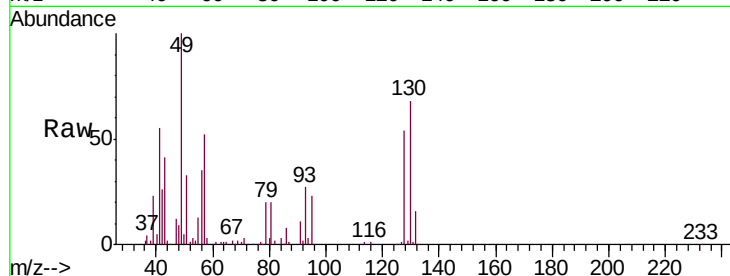
Tgt Ion: 42 Resp: 37744

Ion Ratio Lower Upper

42 100

72 0.5 32.0 48.0#

71 12.9 30.4 45.6#

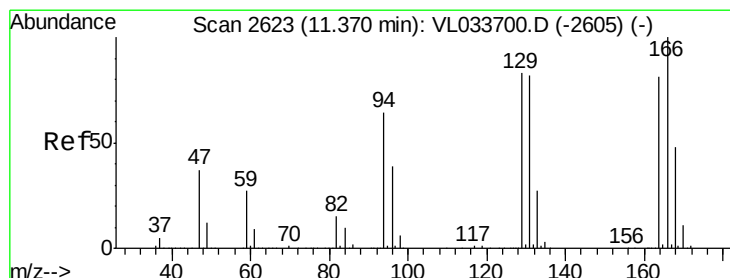
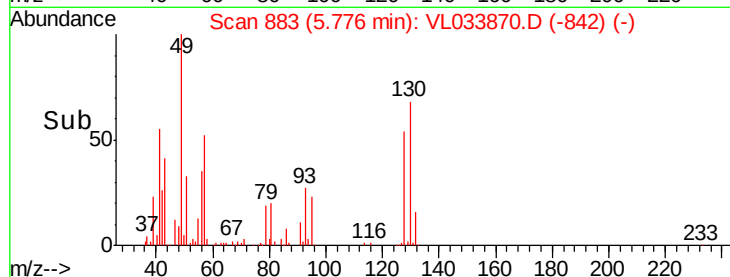
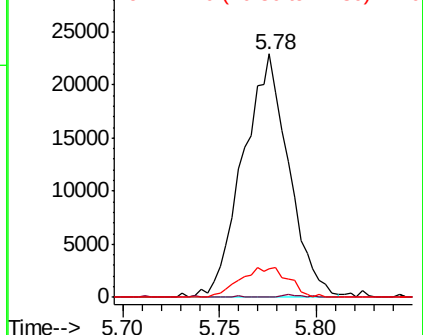


Abundance

Ion 42.10 (41.80 to 42.80): VL0

Ion 72.10 (71.80 to 72.80): VL0

Ion 71.10 (70.80 to 71.80): VL0



#52

Tetrachloroethene

Concen: 1.367 ppbv

RT: 11.36 min Scan# 2621

Delta R.T. -0.01 min

Lab File: VL033870.D

Acq: 30 May 2019 14:35

Tgt Ion: 164 Resp: 63404

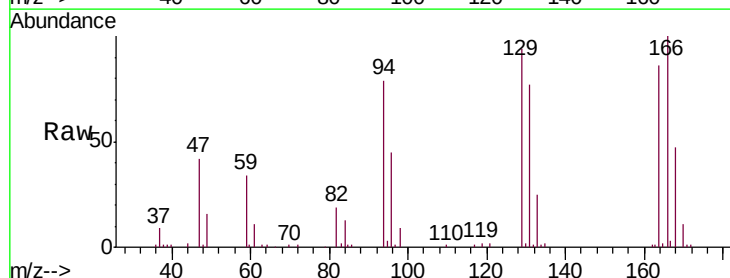
Ion Ratio Lower Upper

164 100

166 119.4 98.9 148.3

129 109.5 81.8 122.6

131 89.6 81.1 121.7



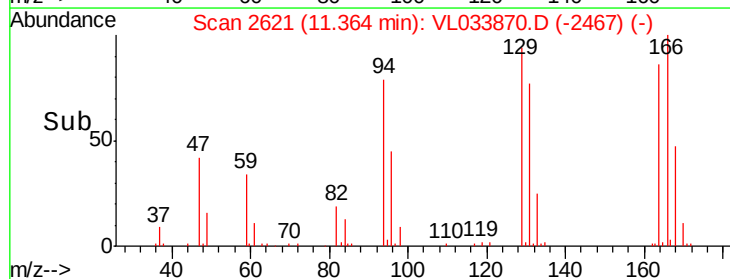
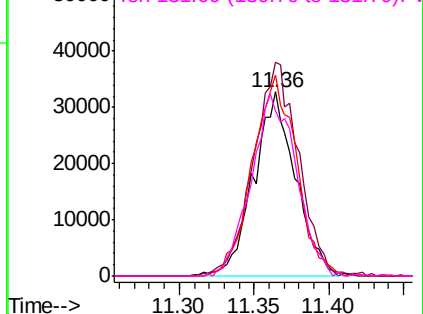
Abundance

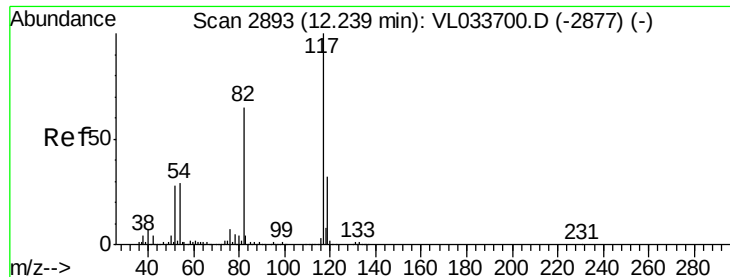
Ion 163.90 (163.60 to 164.60): V

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

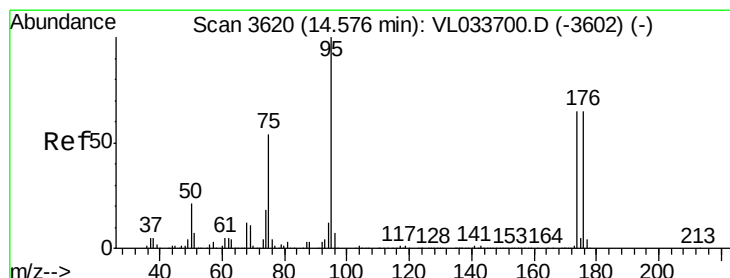
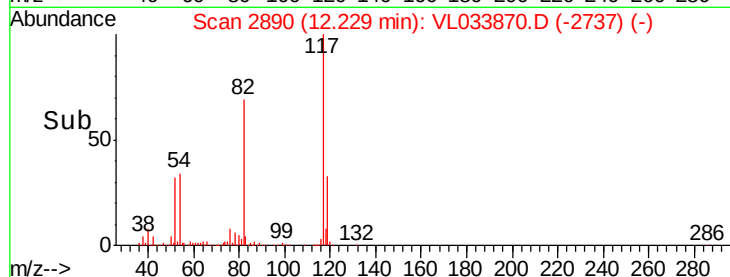
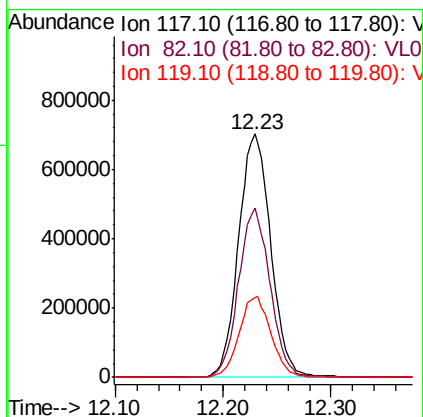
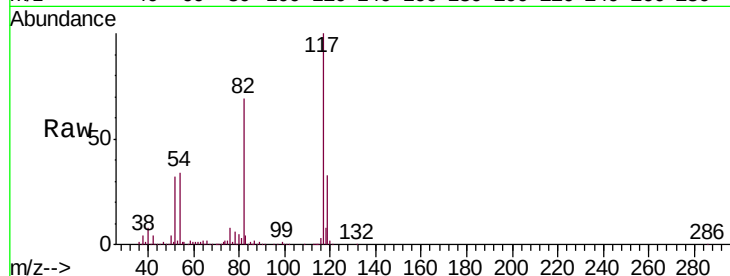




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.23 min Scan# 2890
Delta R.T. -0.01 min
Lab File: VL033870.D
Acq: 30 May 2019 14:35

Instrument :
MSVOA_L
ClientSampleId :
SG-23-20190523-0

Tgt Ion: 117 Resp: 1461296
Ion Ratio Lower Upper
117 100
82 68.5 49.4 74.0
119 32.7 24.9 37.3



#68
1-Bromo-4-Fluorobenzene
Concen: 10.100 ppbv
RT: 14.57 min Scan# 3617
Delta R.T. -0.01 min
Lab File: VL033870.D
Acq: 30 May 2019 14:35

Tgt Ion: 95 Resp: 1196466
Ion Ratio Lower Upper
95 100
174 64.2 53.9 80.9
175 4.7 3.8 5.8

