

Data File : VL033229.D
Acq On : 15 Feb 2019 12:57
Operator : SY/AP
Sample : K1483-10DL2 100X
Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Feb 16 04:14:40 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL020519AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Feb 06 09:13:11 2019
QLast Update : Wed Feb 06 09:13:11 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.76	49	700267	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.29	114	1531674	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.25	117	1593784	10.00	ppbv	0.00

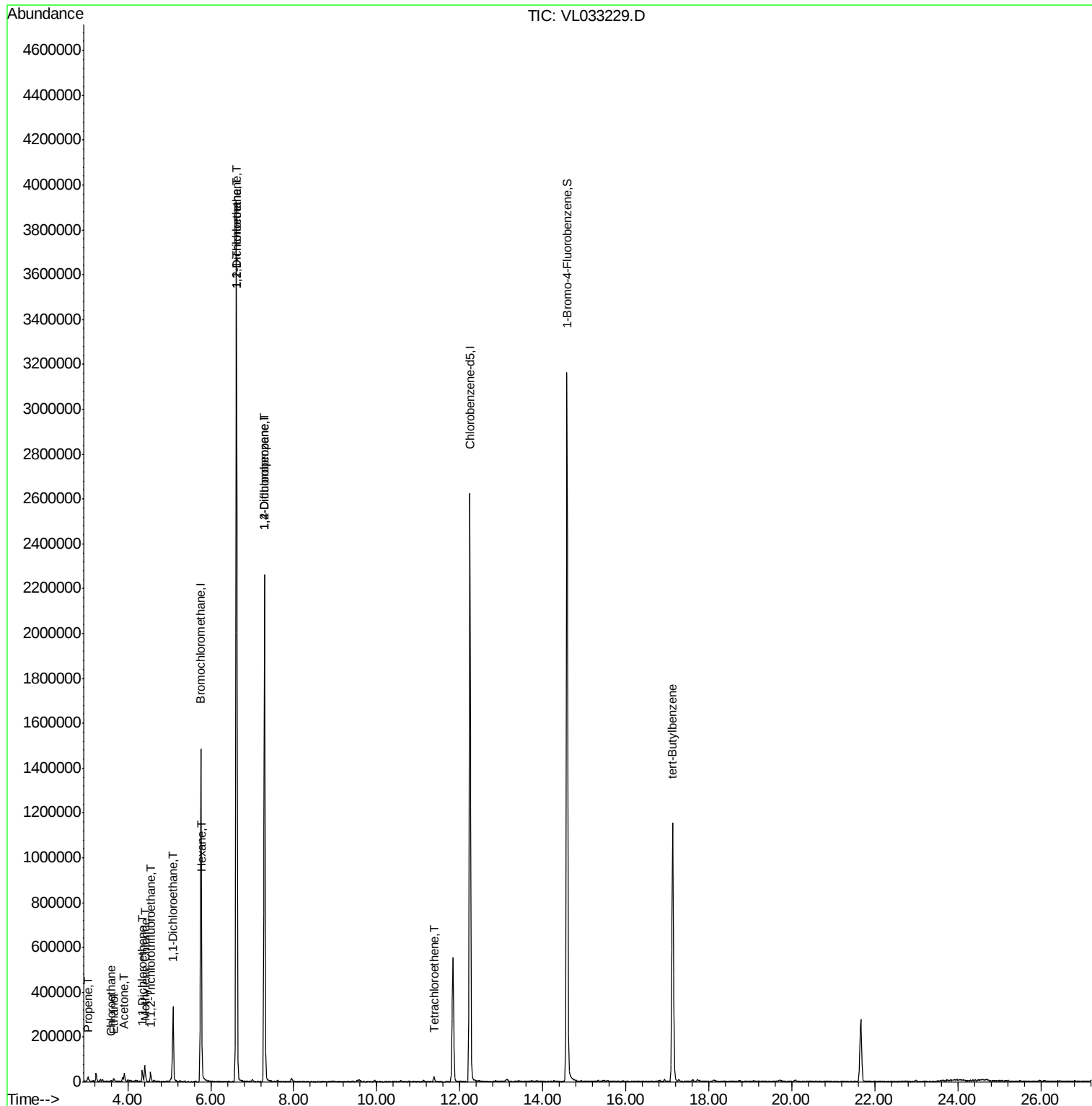
System Monitoring Compounds
68) 1-Bromo-4-Fluorobenzene 14.58 95 1510643 12.31 ppbv 0.00
Spiked Amount 10.000 Range 65 - 135 Recovery = 123.10%

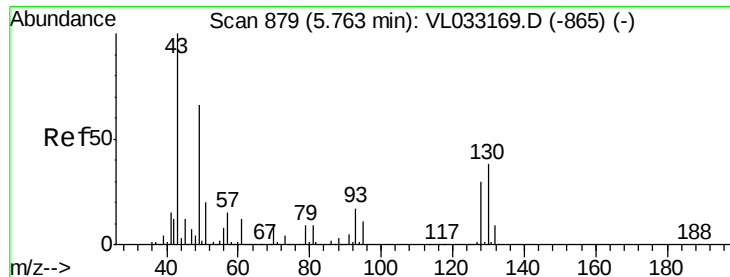
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
7) Chloroethane	3.60	64	1570	0.103	ppbv #	71
9) Propene	3.04	41	2781	0.068	ppbv	88
12) 1,1,2-Trichlorotrifluoroet	4.55	101	12471	0.166	ppbv	92
13) Ethanol	3.66	45	7717	0.568	ppbv	93
15) Acetone	3.91	43	32551	0.413	ppbv	92
18) 1,1-Dichloroethene	4.35	96	13904	0.413	ppbv #	75
20) Methylene Chloride	4.41	84	23037	0.734	ppbv #	93
24) 1,1-Dichloroethane	5.09	63	265982	2.750	ppbv	99
26) Hexane	5.79	57	4172	0.050	ppbv #	16
32) 1,1,1-Trichloroethane	6.62	97	2488491	17.709	ppbv	99
37) 1,2-Dichloroethane	6.62	62	179449	2.086	ppbv #	1
39) 1,2-Dichloropropane	7.29	63	424046	6.917	ppbv #	26
52) Tetrachloroethene	11.37	164	3902	0.065	ppbv #	60
65) tert-Butylbenzene	17.12	119	13149	0.051	ppbv #	16

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

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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.76 min Scan# 879

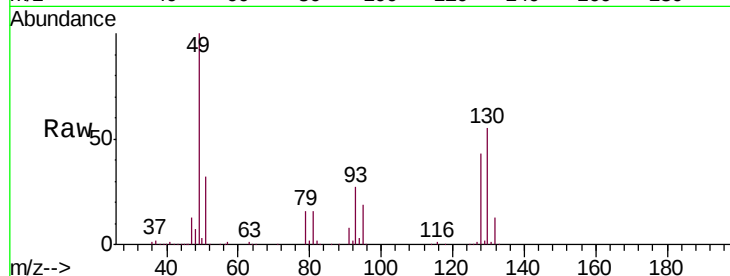
Delta R.T. 0.00 min

Lab File: VL033229.D

Acq: 15 Feb 2019 12:57

Tgt Ion: 49 Resp: 700267

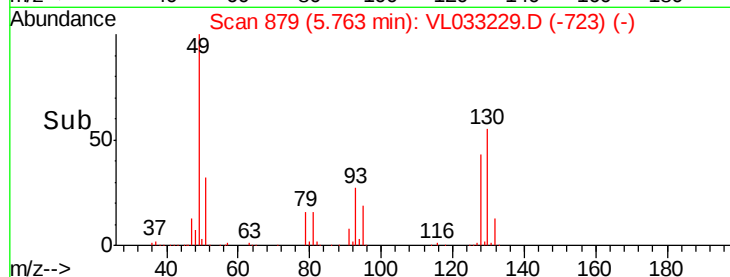
Ion	Ratio	Lower	Upper
49	100		
128	45.0	23.6	71.0
130	57.3	30.3	91.0



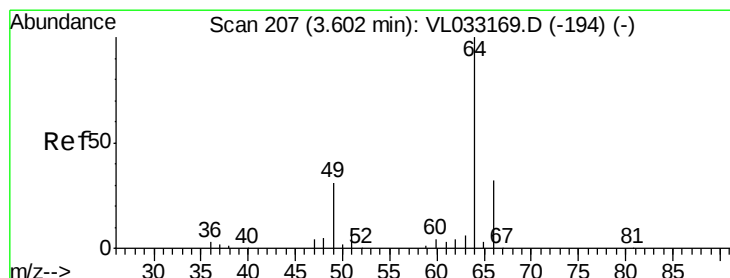
Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): VL0

Ion 130.00 (129.70 to 130.70): VL0



Time-->



#7

Chloroethane

Concen: 0.103 ppbv

RT: 3.60 min Scan# 207

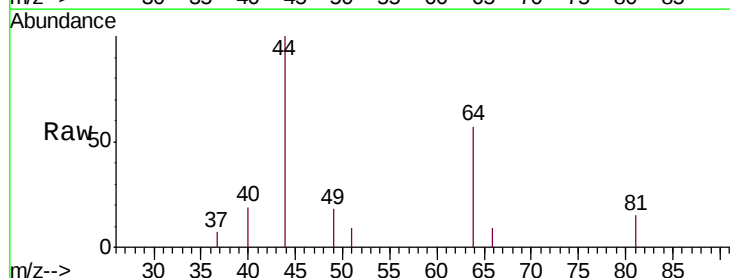
Delta R.T. 0.00 min

Lab File: VL033229.D

Acq: 15 Feb 2019 12:57

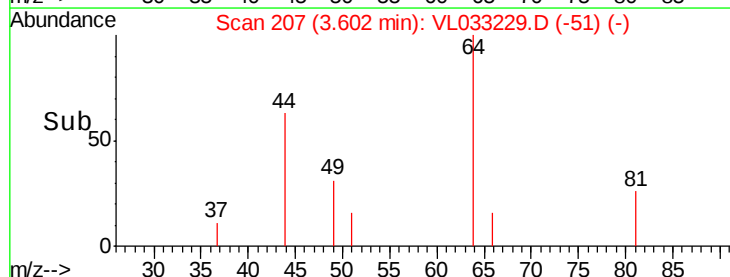
Tgt Ion: 64 Resp: 1570

Ion	Ratio	Lower	Upper
64	100		
66	16.4	26.0	39.0

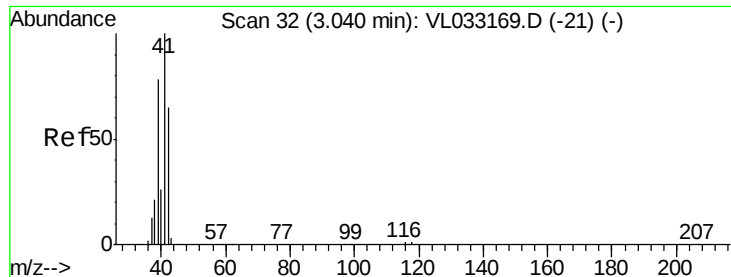


Abundance Ion 64.10 (63.80 to 64.80): VL0

Ion 66.10 (65.80 to 66.80): VL0



Time-->



#9

Propene

Concen: 0.068 ppbv

RT: 3.04 min Scan# 33

Delta R.T. 0.00 min

Lab File: VL033229.D

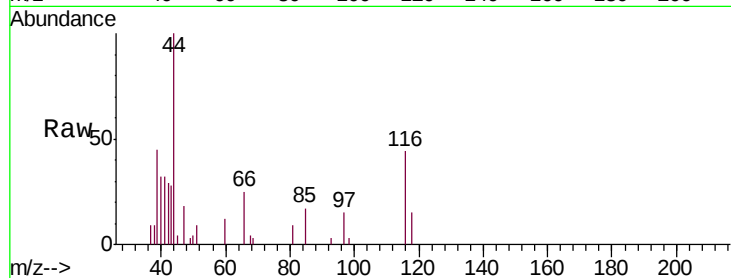
Acq: 15 Feb 2019 12:57

Tgt Ion: 41 Resp: 2781

Ion Ratio Lower Upper

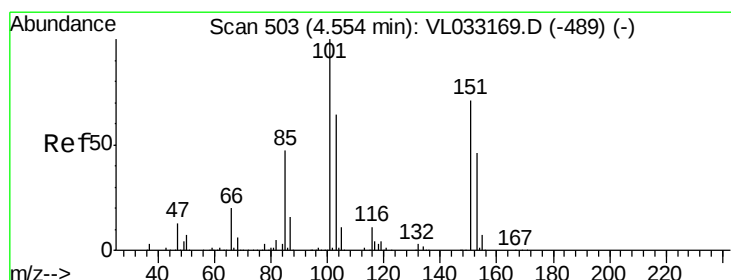
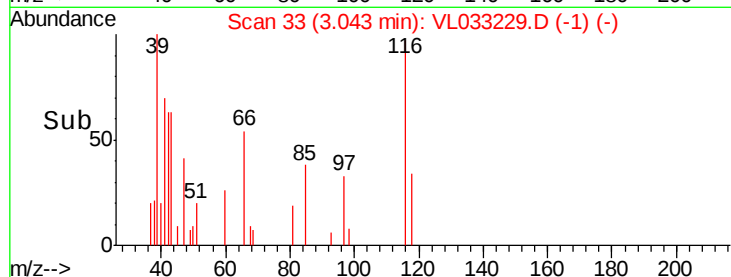
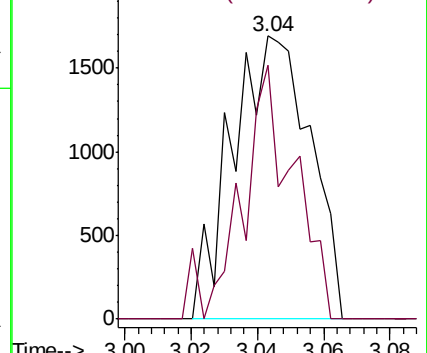
41 100

42 59.3 55.0 82.6



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0



#12

1,1,2-Trichlorotrifluoroethane

Concen: 0.166 ppbv

RT: 4.55 min Scan# 502

Delta R.T. -0.00 min

Lab File: VL033229.D

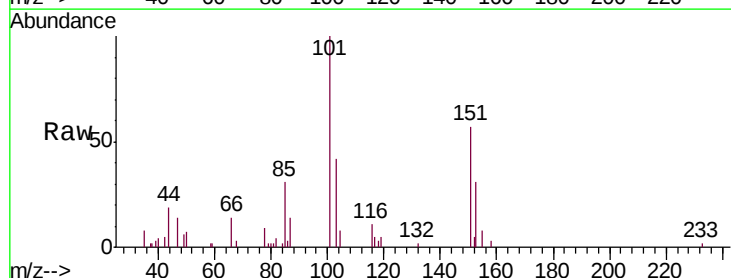
Acq: 15 Feb 2019 12:57

Tgt Ion: 101 Resp: 12471

Ion Ratio Lower Upper

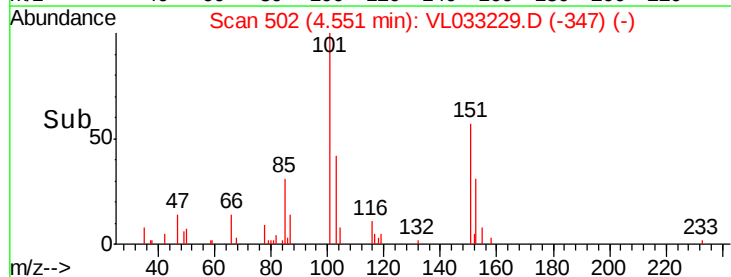
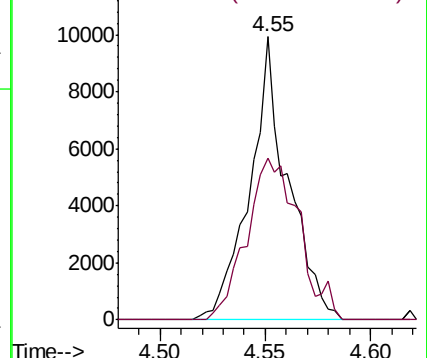
101 100

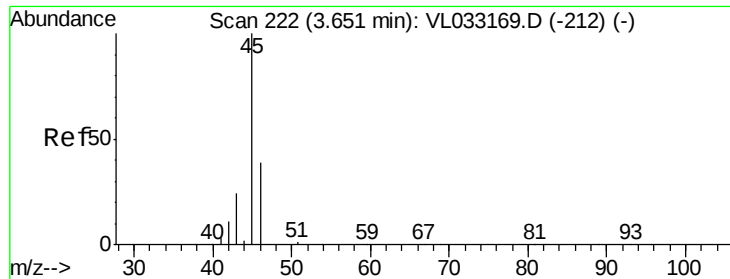
151 78.7 57.4 86.0



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 151.00 (150.70 to 151.70): V





#13

Ethanol

Concen: 0.568 ppbv

RT: 3.66 min Scan# 226

Delta R.T. 0.01 min

Lab File: VL033229.D

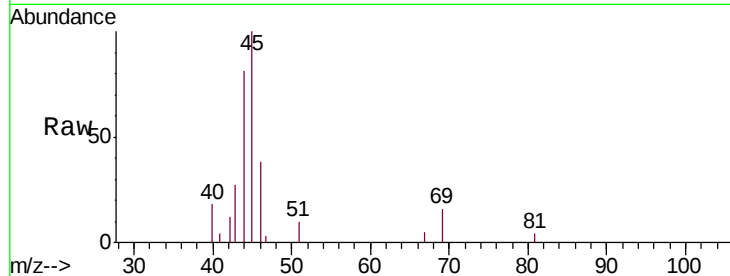
Acq: 15 Feb 2019 12:57

Tgt Ion: 45 Resp: 7717

Ion Ratio Lower Upper

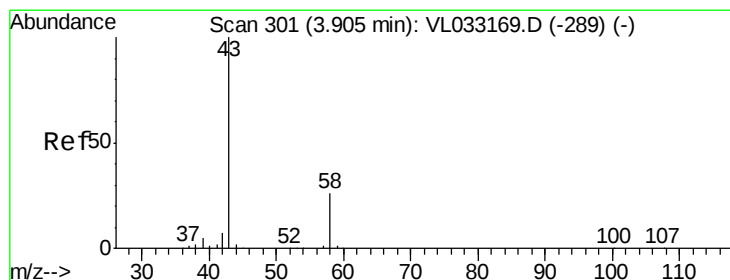
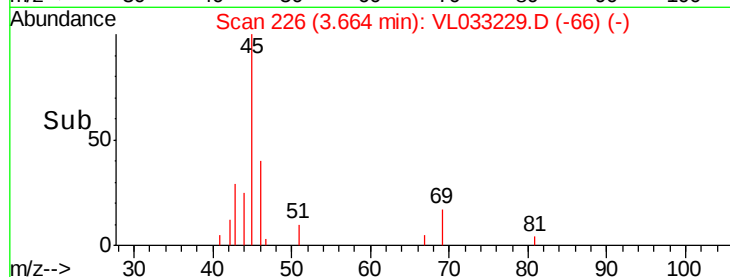
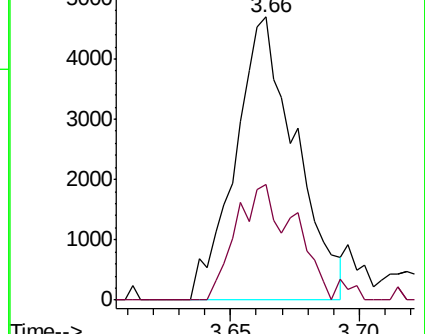
45 100

46 41.7 15.0 60.2



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 46.10 (45.80 to 46.80): VL0



#15

Acetone

Concen: 0.413 ppbv

RT: 3.91 min Scan# 304

Delta R.T. 0.01 min

Lab File: VL033229.D

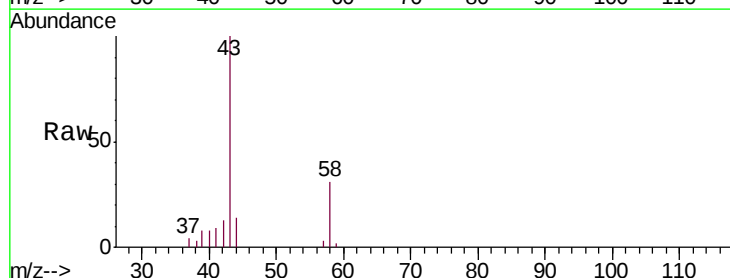
Acq: 15 Feb 2019 12:57

Tgt Ion: 43 Resp: 32551

Ion Ratio Lower Upper

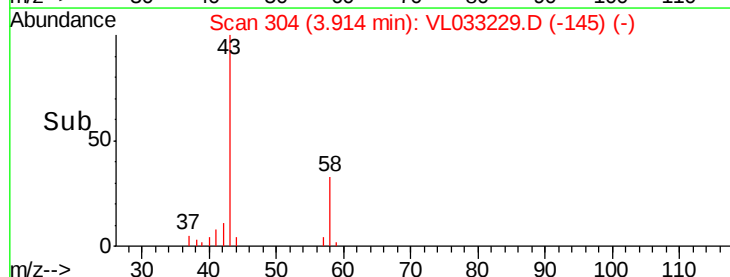
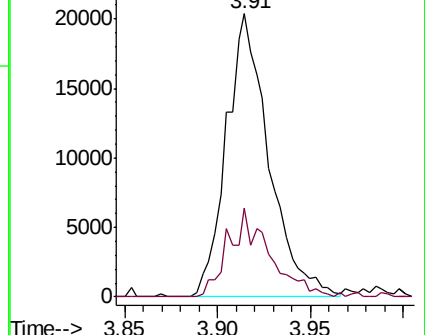
43 100

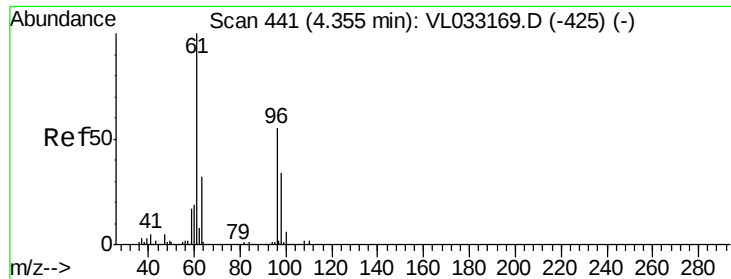
58 30.7 21.1 31.7



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0





#18

1,1-Dichloroethene

Concen: 0.413 ppbv

RT: 4.35 min Scan# 439

Delta R.T. -0.01 min

Lab File: VL033229.D

Acq: 15 Feb 2019 12:57

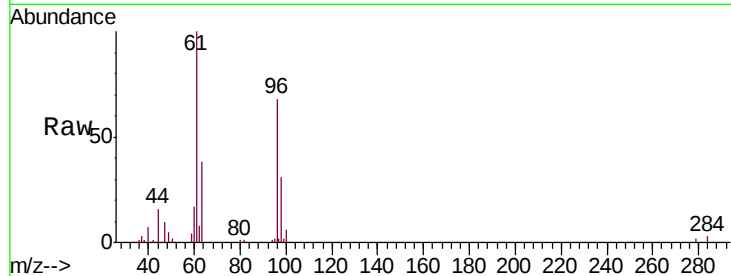
Tgt Ion: 96 Resp: 13904

Ion Ratio Lower Upper

96 100

61 144.7 145.0 217.6#

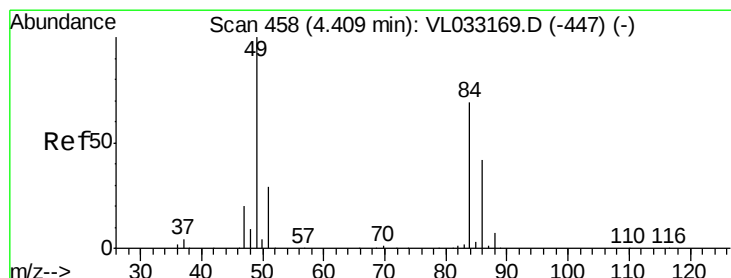
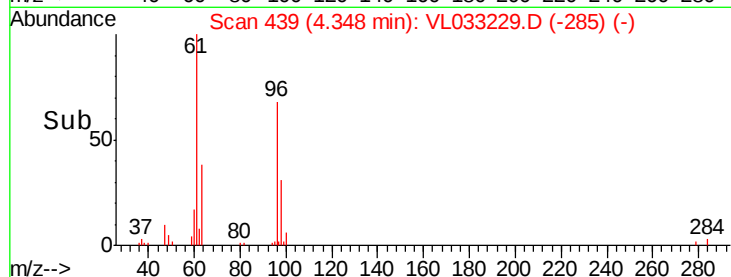
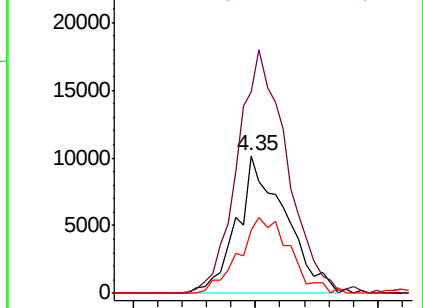
98 45.8 50.0 75.0#



Abundance Ion 96.00 (95.70 to 96.70): VL0

Ion 61.10 (60.80 to 61.80): VL0

Ion 98.00 (97.70 to 98.70): VL0



#20

Methylene Chloride

Concen: 0.734 ppbv

RT: 4.41 min Scan# 457

Delta R.T. -0.00 min

Lab File: VL033229.D

Acq: 15 Feb 2019 12:57

Tgt Ion: 84 Resp: 23037

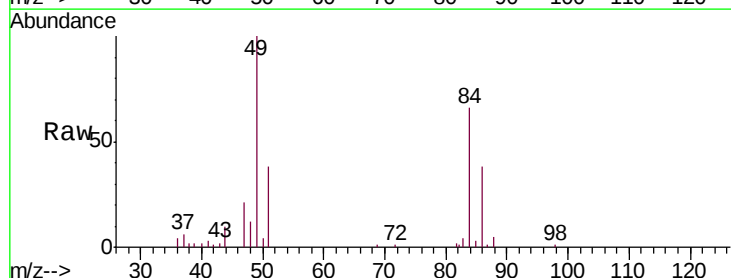
Ion Ratio Lower Upper

84 100

49 149.7 115.8 173.8

51 56.1 33.0 49.6#

86 58.0 48.2 72.2

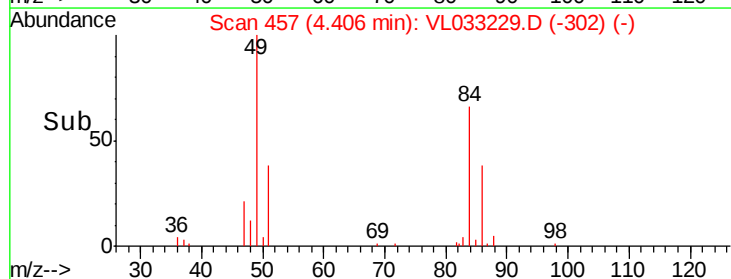
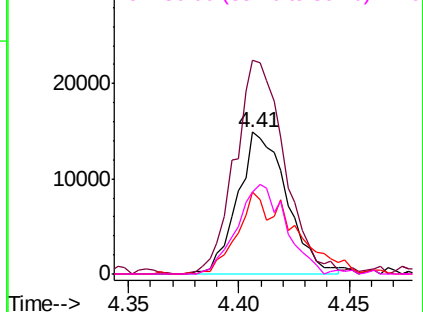


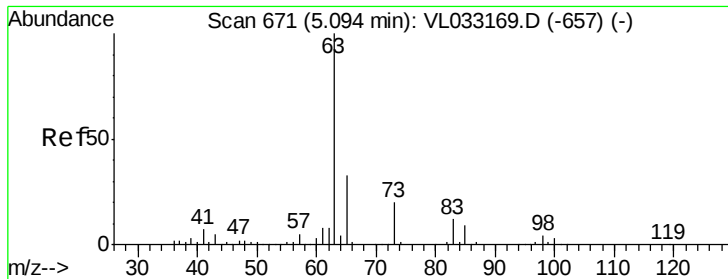
Abundance Ion 84.00 (83.70 to 84.70): VL0

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





#24

1,1-Dichloroethane

Concen: 2.750 ppbv

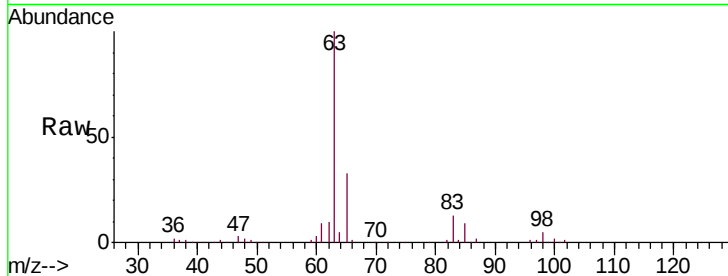
RT: 5.09 min Scan# 670

Delta R.T. -0.00 min

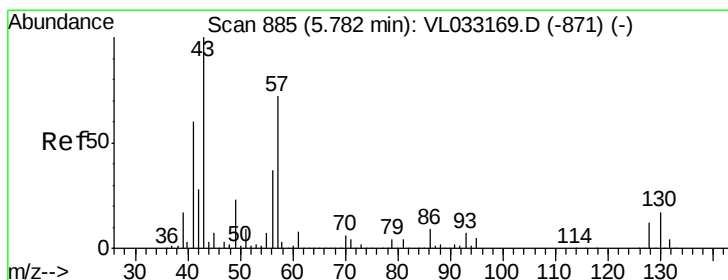
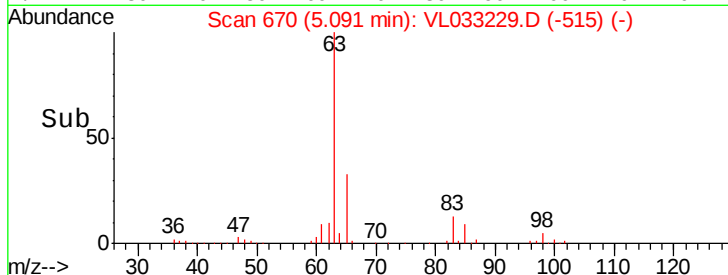
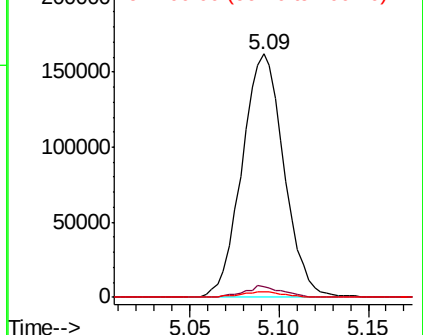
Lab File: VL033229.D

Acq: 15 Feb 2019 12:57

Tgt Ion:	63	Resp:	265982
Ion	Ratio	Lower	Upper
63	100		
98	4.6	2.1	6.5
100	2.5	1.4	4.2



Abundance Ion 63.10 (62.80 to 63.80): VL0
Ion 98.00 (97.70 to 98.70): VL0
Ion 100.00 (99.70 to 100.70): VL0



#26

Hexane

Concen: 0.050 ppbv

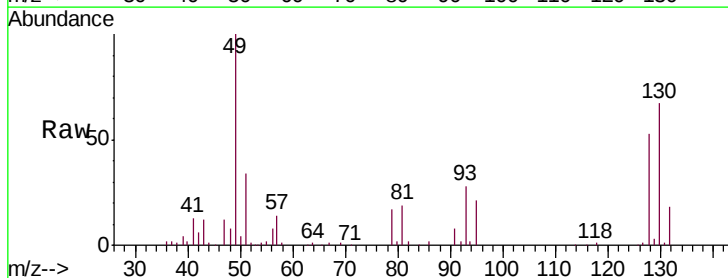
RT: 5.79 min Scan# 886

Delta R.T. 0.00 min

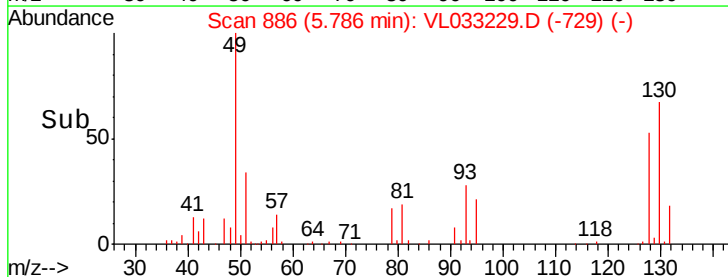
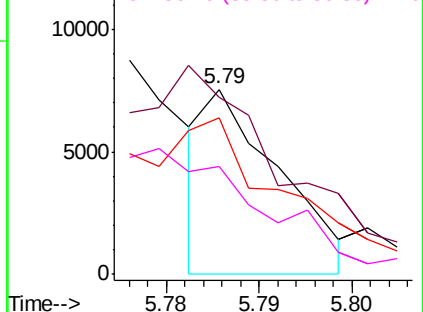
Lab File: VL033229.D

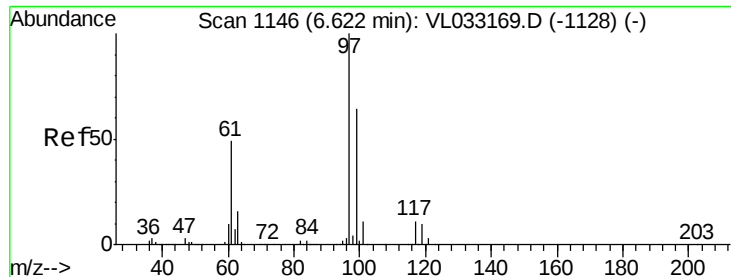
Acq: 15 Feb 2019 12:57

Tgt Ion:	57	Resp:	4172
Ion	Ratio	Lower	Upper
57	100		
41	328.1	69.4	104.2#
43	248.2	176.7	265.1
56	0.0	41.4	62.0#



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





#32

1,1,1-Trichloroethane

Concen: 17.709 ppbv

RT: 6.62 min Scan# 1145

Delta R.T. -0.00 min

Lab File: VL033229.D

Acq: 15 Feb 2019 12:57

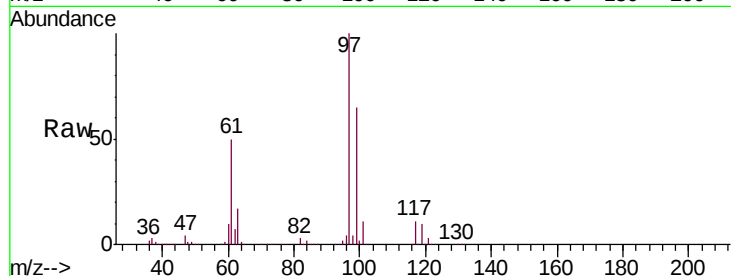
Tgt Ion: 97 Resp: 2488491

Ion Ratio Lower Upper

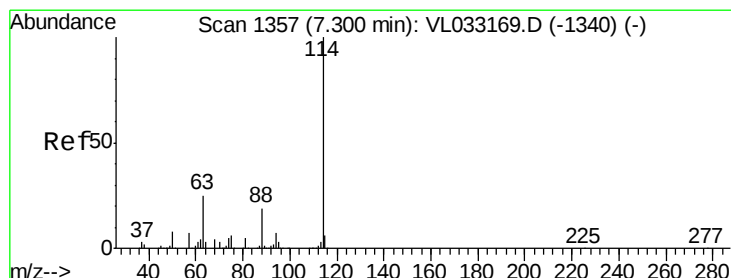
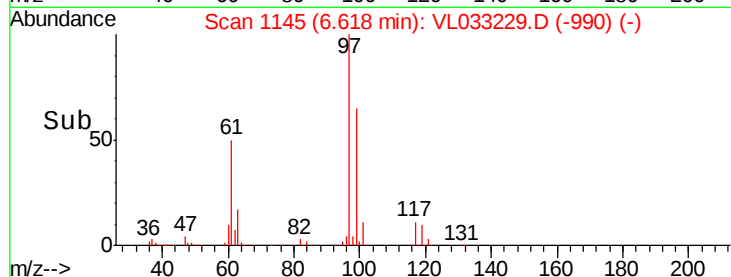
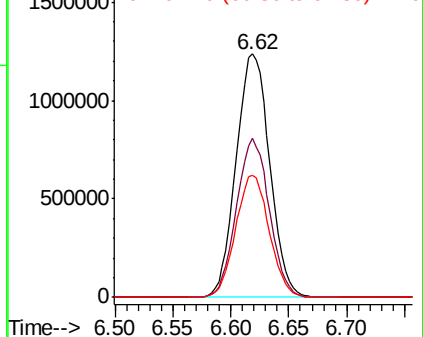
97 100

99 63.9 51.4 77.2

61 50.2 38.9 58.3



Abundance Ion 97.00 (96.70 to 97.70): VL0
Ion 99.00 (98.70 to 99.70): VL0
Ion 61.10 (60.80 to 61.80): VL0



#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.29 min Scan# 1354

Delta R.T. -0.01 min

Lab File: VL033229.D

Acq: 15 Feb 2019 12:57

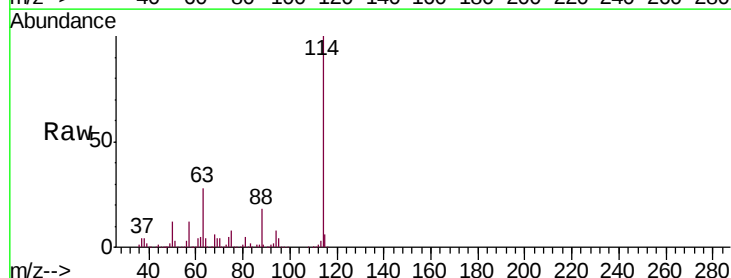
Tgt Ion: 114 Resp: 1531674

Ion Ratio Lower Upper

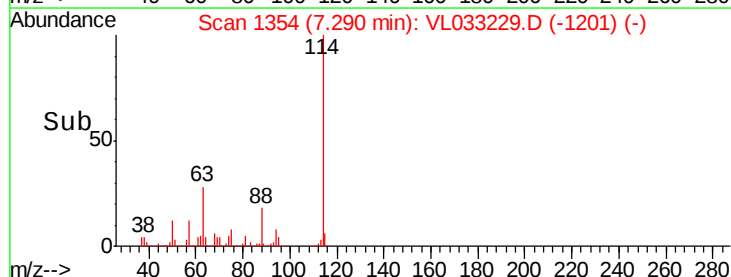
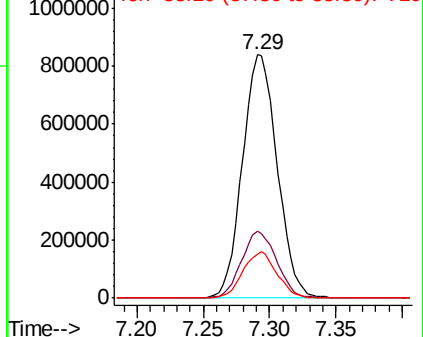
114 100

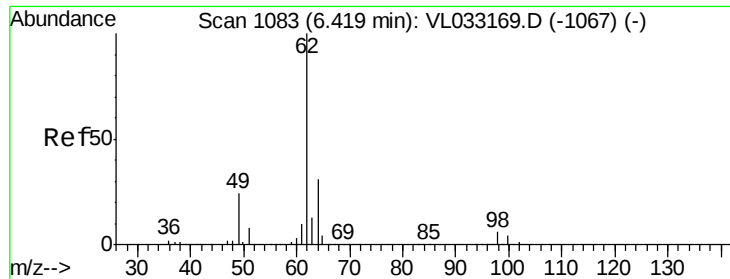
63 27.9 20.8 31.2

88 18.6 14.6 22.0



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





#37

1,2-Dichloroethane

Concen: 2.086 ppbv

RT: 6.62 min Scan# 1145

Delta R.T. 0.20 min

Lab File: VL033229.D

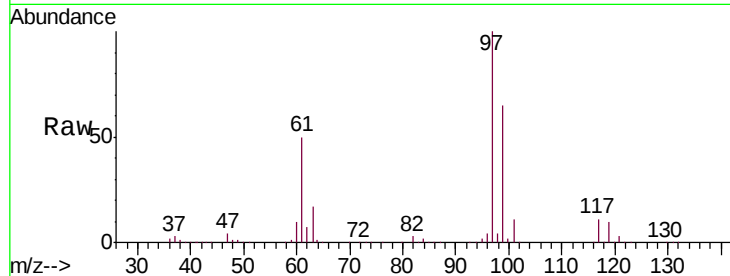
Acq: 15 Feb 2019 12:57

Tgt Ion: 62 Resp: 179449

Ion Ratio Lower Upper

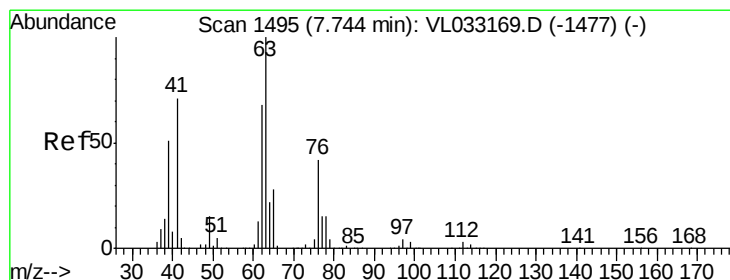
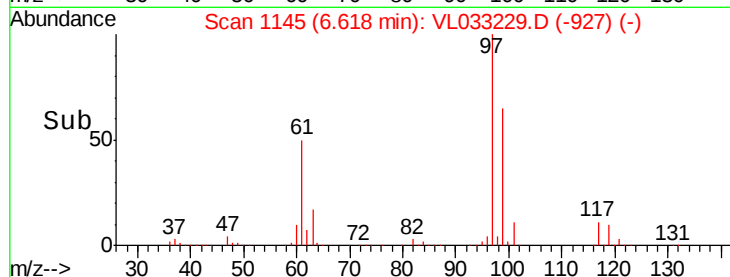
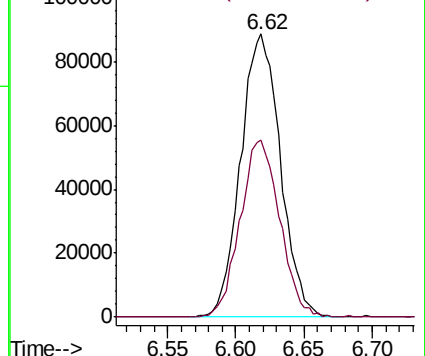
62 100

98 62.2 4.7 7.1#



Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 98.00 (97.70 to 98.70): VL0



#39

1,2-Dichloropropane

Concen: 6.917 ppbv

RT: 7.29 min Scan# 1354

Delta R.T. -0.45 min

Lab File: VL033229.D

Acq: 15 Feb 2019 12:57

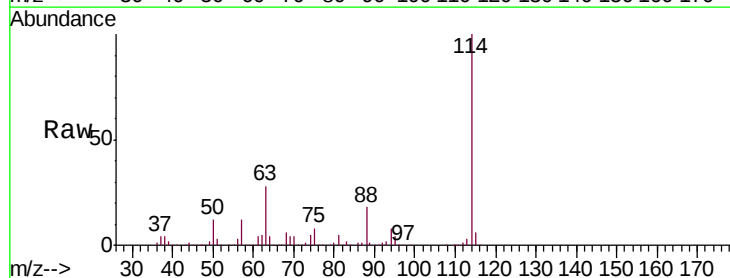
Tgt Ion: 63 Resp: 424046

Ion Ratio Lower Upper

63 100

41 0.0 56.4 84.6#

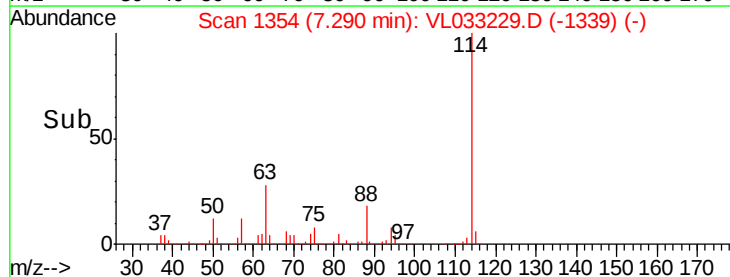
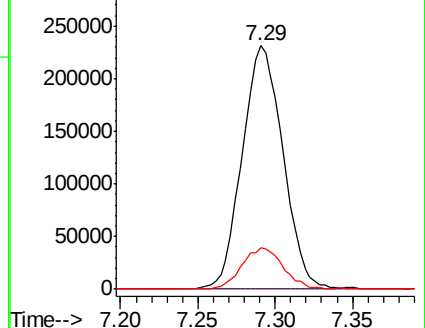
62 17.0 54.2 81.4#

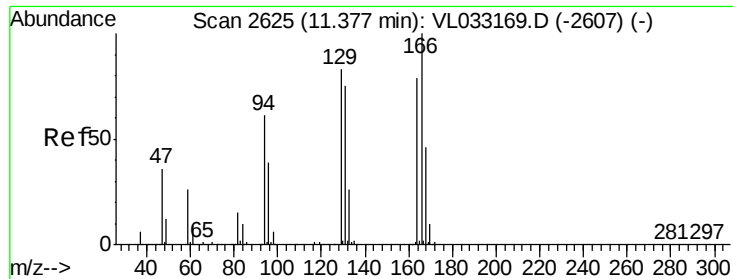


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 62.10 (61.80 to 62.80): VL0





#52

Tetrachloroethene

Concen: 0.065 ppbv

RT: 11.37 min Scan# 2624

Delta R.T. -0.00 min

Lab File: VL033229.D

Acq: 15 Feb 2019 12:57

Tgt Ion:164 Resp: 3902

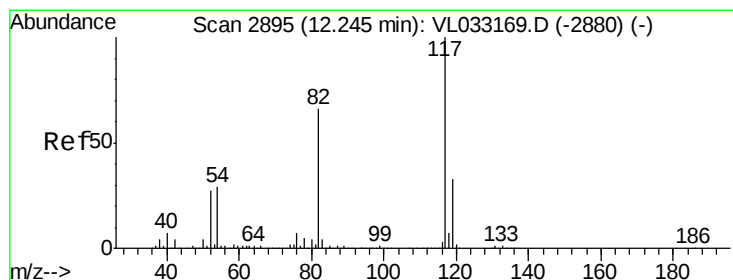
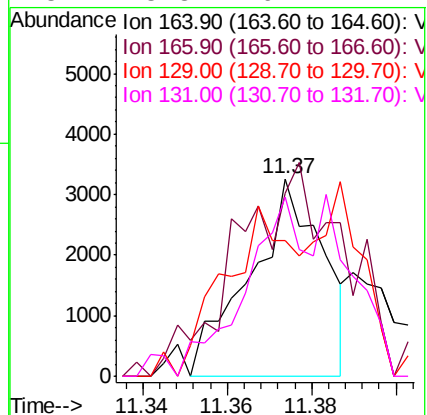
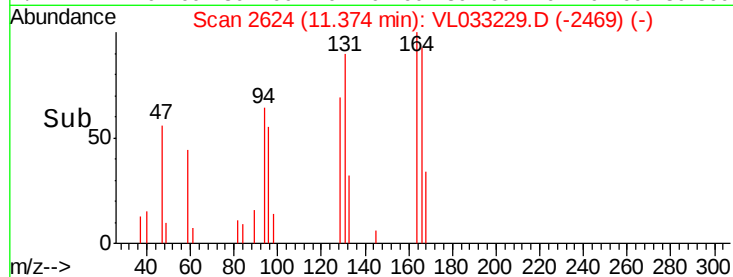
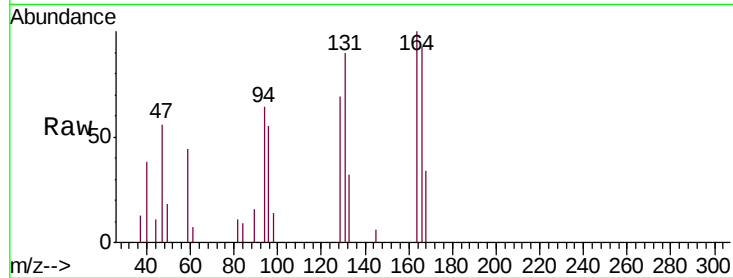
Ion Ratio Lower Upper

164 100

166 75.1 100.9 151.3#

129 53.1 83.9 125.9#

131 73.3 76.2 114.2#



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.25 min Scan# 2895

Delta R.T. 0.00 min

Lab File: VL033229.D

Acq: 15 Feb 2019 12:57

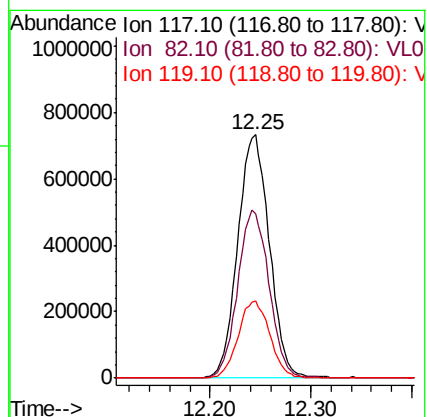
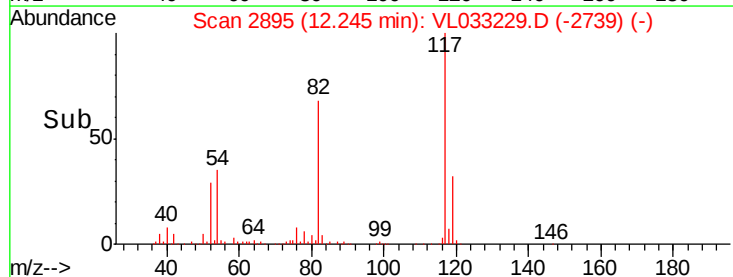
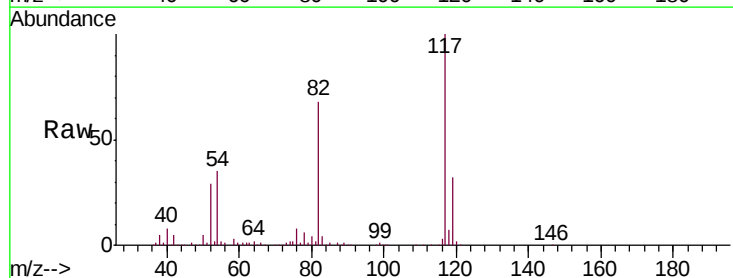
Tgt Ion:117 Resp: 1593784

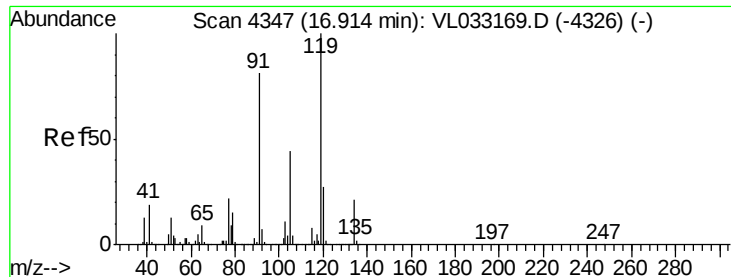
Ion Ratio Lower Upper

117 100

82 68.9 49.5 74.3

119 31.7 24.4 36.6





#65

tert-Butylbenzene

Concen: 0.051 ppbv

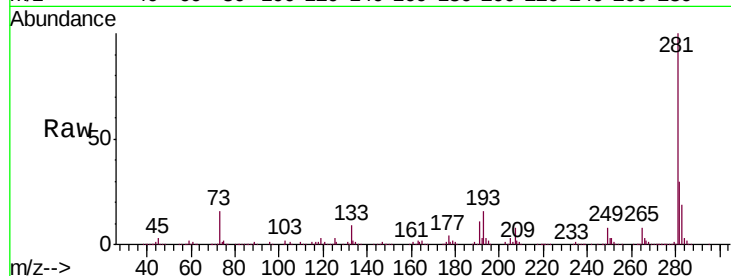
RT: 17.12 min Scan# 4412

Delta R.T. 0.21 min

Lab File: VL033229.D

Acq: 15 Feb 2019 12:57

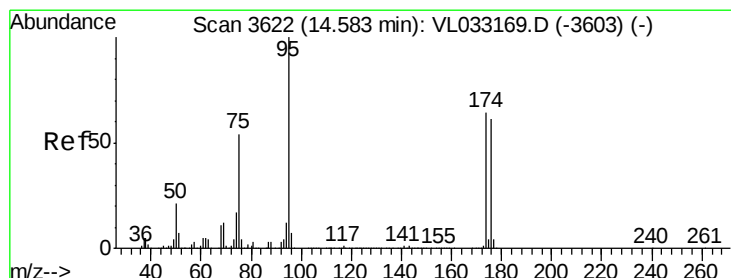
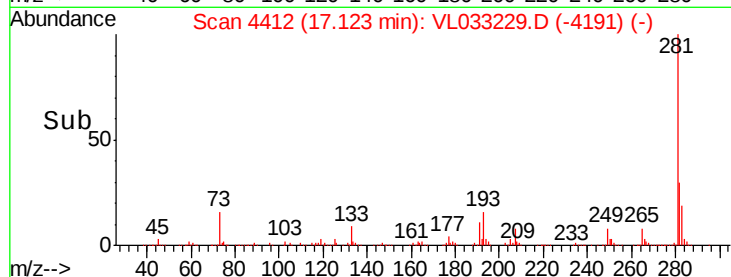
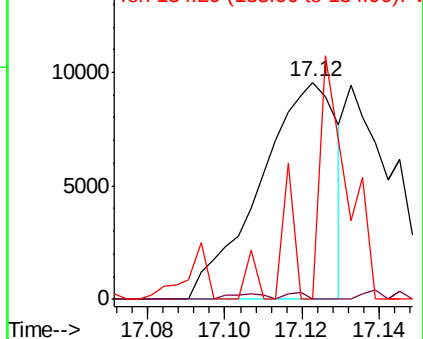
Tgt Ion:	119	Resp:	13149
Ion Ratio	Lower	Upper	
119	100		
91	2.0	65.7	98.5#
134	47.8	15.8	23.6#



Abundance Ion 119.20 (118.90 to 119.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 134.20 (133.90 to 134.90): V



#68

1-Bromo-4-Fluorobenzene

Concen: 12.307 ppbv

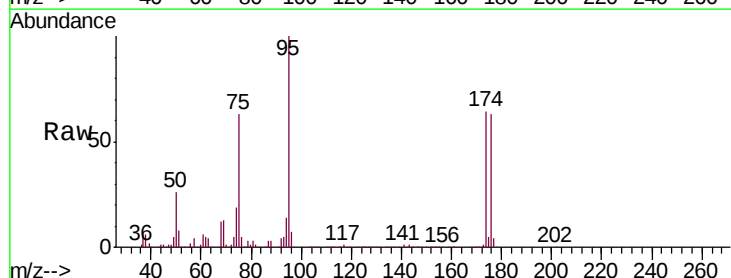
RT: 14.58 min Scan# 3622

Delta R.T. 0.00 min

Lab File: VL033229.D

Acq: 15 Feb 2019 12:57

Tgt Ion:	95	Resp:	1510643
Ion Ratio	Lower	Upper	
95	100		
174	63.2	51.2	76.8
175	4.5	3.8	5.6



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

