

Data File : VL033219.D
Acq On : 15 Feb 2019 4:50
Operator : SY/AP
Sample : K1483-08
Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Feb 15 06:47:22 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	863415	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.29	114	1950659	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.24	117	1930488	10.00	ppbv	0.00

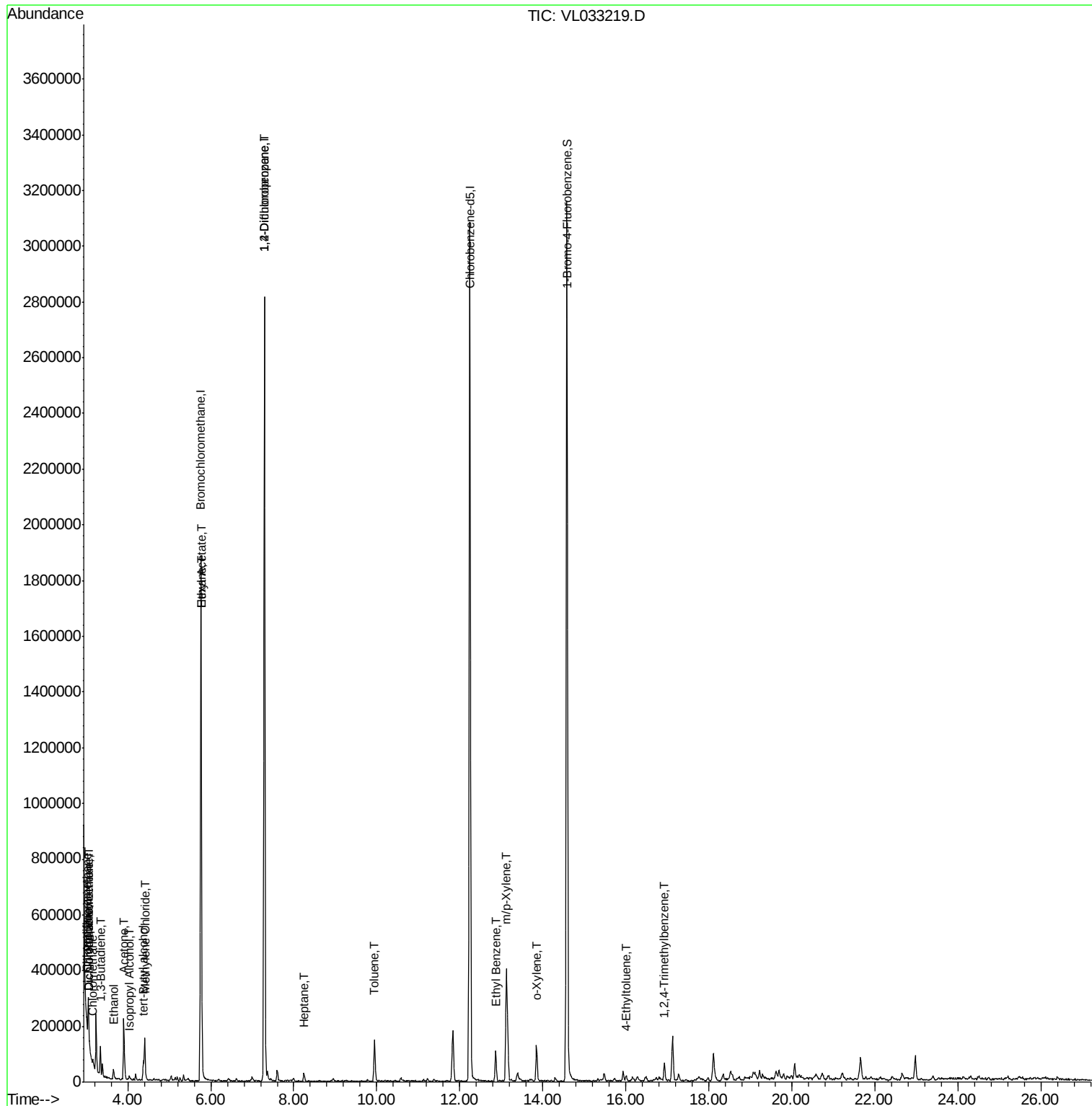
System Monitoring Compounds
68) 1-Bromo-4-Fluorobenzene 14.58 95 1533711 10.32 ppbv 0.00
Spiked Amount 10.000 Range 65 - 135 Recovery = 103.20%

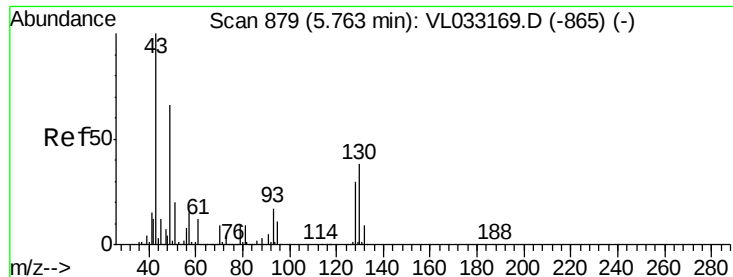
Target Compounds					Qvalue
2) Dichlorodifluoromethane	3.08	85	21299	0.129 ppbv	95
3) Chlorodifluoromethane	3.02	51	39806	0.383 ppbv #	87
4) Chloromethane	3.17	50	7128	0.130 ppbv #	76
8) Dichlorotetrafluoroethane	3.08	85	21299	0.165 ppbv #	16
9) Propene	3.05	41	33658	0.670 ppbv #	66
10) Heptane	8.24	43	7557	0.050 ppbv #	55
13) Ethanol	3.66	45	32994	1.970 ppbv	99
15) Acetone	3.90	43	216981	2.231 ppbv	94
16) 1,3-Butadiene	3.34	39	26845	0.581 ppbv #	10
17) tert-Butyl alcohol	4.38	59	51689	2.787 ppbv #	88
19) Isopropyl Alcohol	4.04	45	9597	0.145 ppbv #	95
20) Methylene Chloride	4.41	84	44809	1.158 ppbv	96
25) Ethyl Acetate	5.78	43	46028	0.210 ppbv #	80
26) Hexane	5.78	57	58782	0.573 ppbv #	42
39) 1,2-Dichloropropane	7.29	63	520137	6.662 ppbv #	26
53) Toluene	9.94	91	110364	0.471 ppbv	97
58) Ethyl Benzene	12.87	91	90978	0.291 ppbv	96
59) m/p-Xylene	13.12	91	430547	1.651 ppbv #	100
60) o-Xylene	13.85	91	97300	0.384 ppbv	99
72) 4-Ethyltoluene	16.00	105	9724	0.033 ppbv #	70
74) 1,2,4-Trimethylbenzene	16.93	105	24579	0.085 ppbv #	72

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

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QLast Update : Wed Feb 06 09:13:11 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: VL033219.D

Acq: 15 Feb 2019 4:50

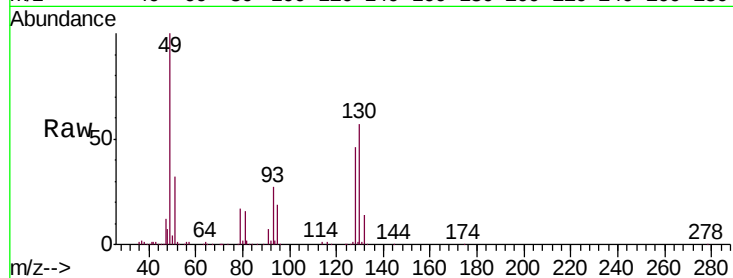
Tgt Ion: 49 Resp: 863415

Ion Ratio Lower Upper

49 100

128 46.2 23.6 71.0

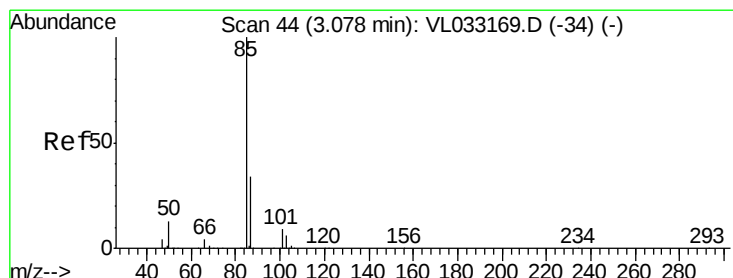
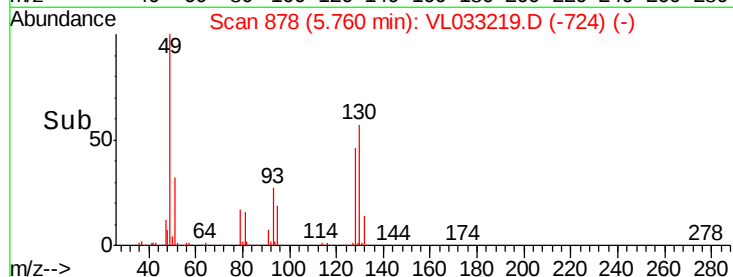
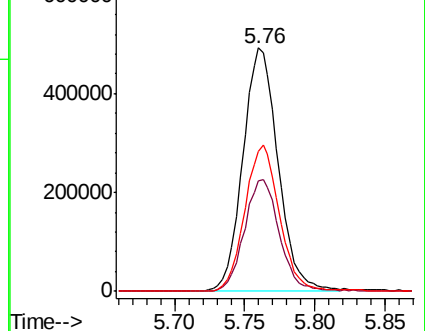
130 59.3 30.3 91.0



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: 0.129 ppbv

RT: 3.08 min Scan# 43

Delta R.T. -0.00 min

Lab File: VL033219.D

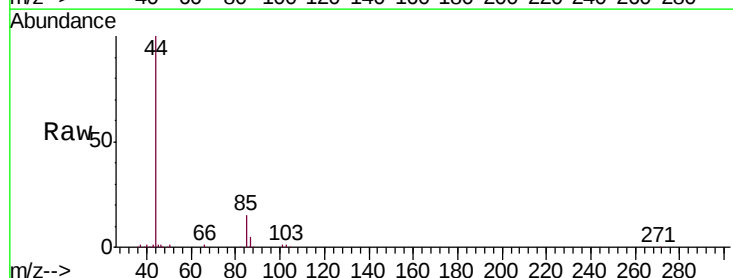
Acq: 15 Feb 2019 4:50

Tgt Ion: 85 Resp: 21299

Ion Ratio Lower Upper

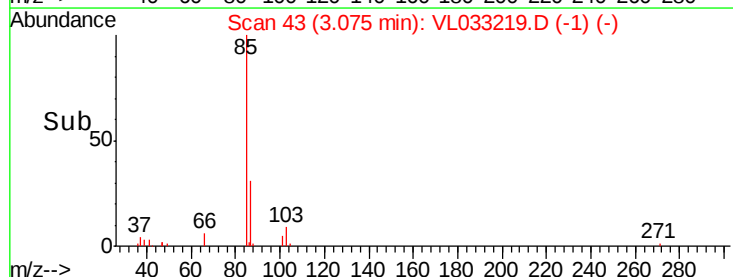
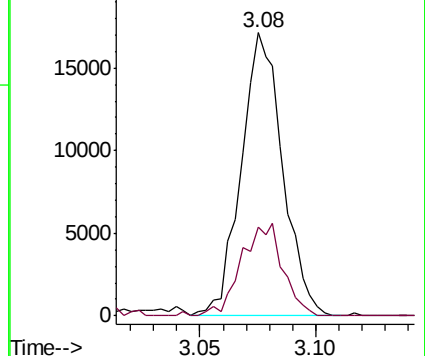
85 100

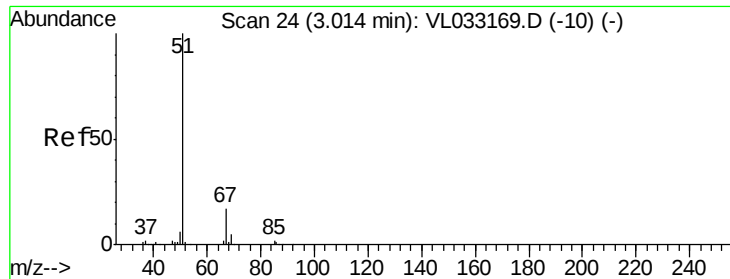
87 31.4 27.4 41.2



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.383 ppbv

RT: 3.02 min Scan# 25

Delta R.T. 0.00 min

Lab File: VL033219.D

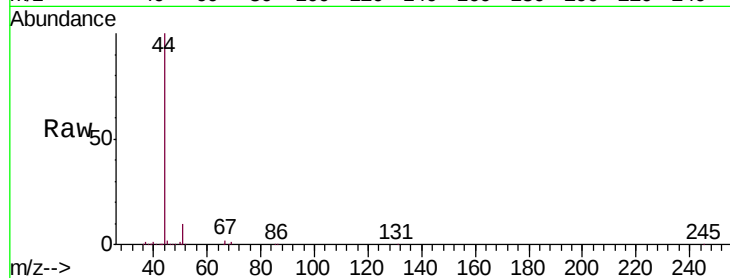
Acq: 15 Feb 2019 4:50

Tgt Ion: 51 Resp: 39806

Ion Ratio Lower Upper

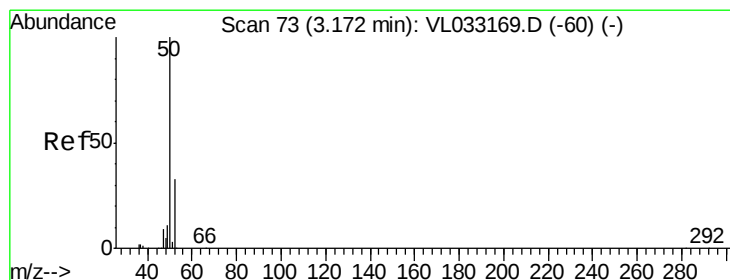
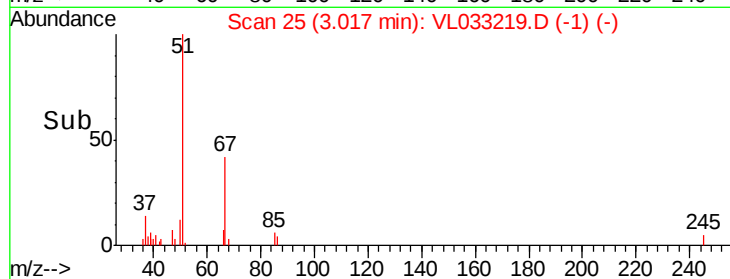
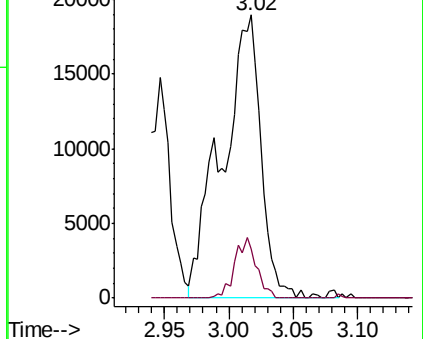
51 100

67 12.0 14.0 21.0#



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 0.130 ppbv

RT: 3.17 min Scan# 73

Delta R.T. -0.00 min

Lab File: VL033219.D

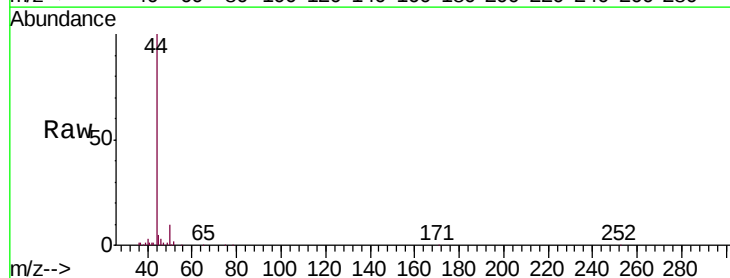
Acq: 15 Feb 2019 4:50

Tgt Ion: 50 Resp: 7128

Ion Ratio Lower Upper

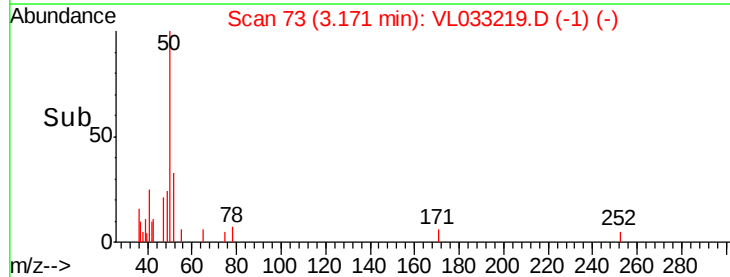
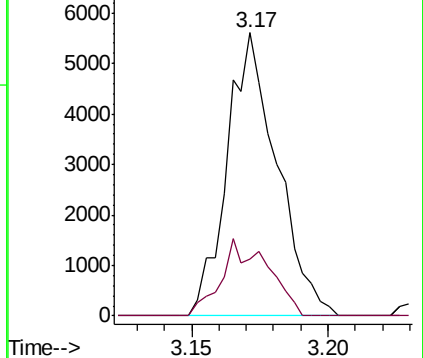
50 100

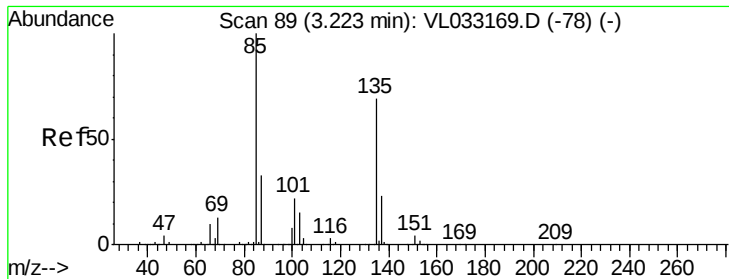
52 19.4 26.5 39.7#



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#8

Dichlorotetrafluoroethane

Concen: 0.165 ppbv

RT: 3.08 min Scan# 43

Delta R.T. -0.15 min

Lab File: VL033219.D

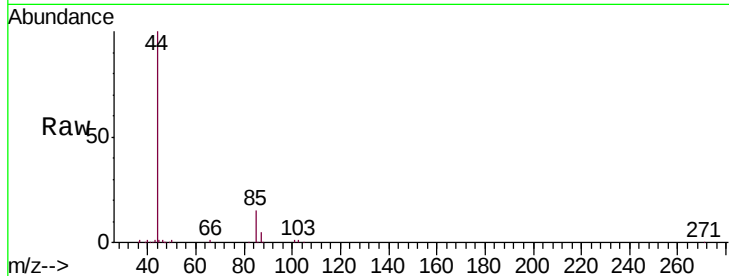
Acq: 15 Feb 2019 4:50

Tgt Ion: 85 Resp: 21299

Ion Ratio Lower Upper

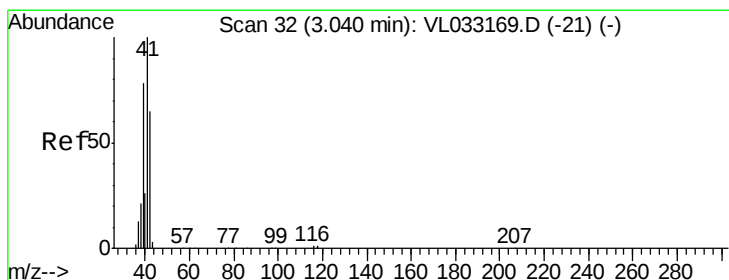
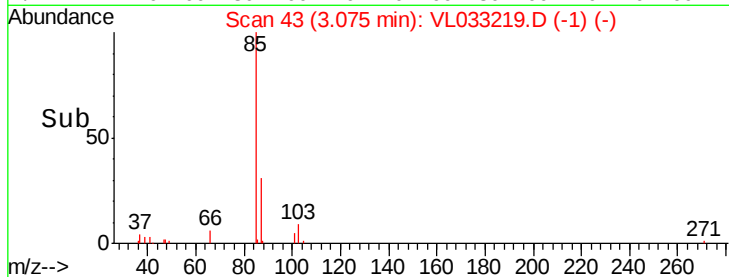
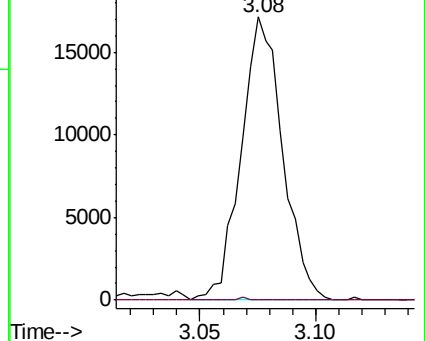
85 100

135 0.0 54.3 81.5#



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 135.00 (134.70 to 135.70): VL0



#9

Propene

Concen: 0.670 ppbv

RT: 3.05 min Scan# 35

Delta R.T. 0.01 min

Lab File: VL033219.D

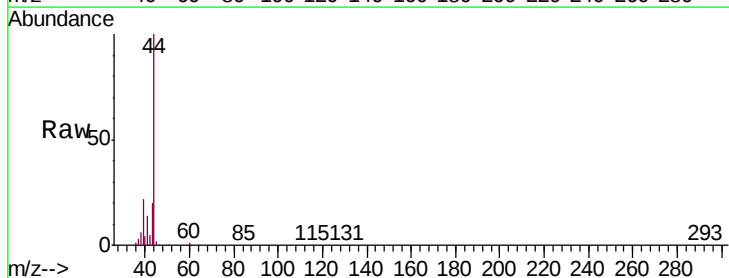
Acq: 15 Feb 2019 4:50

Tgt Ion: 41 Resp: 33658

Ion Ratio Lower Upper

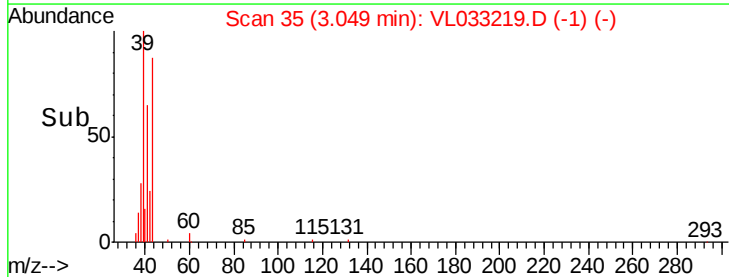
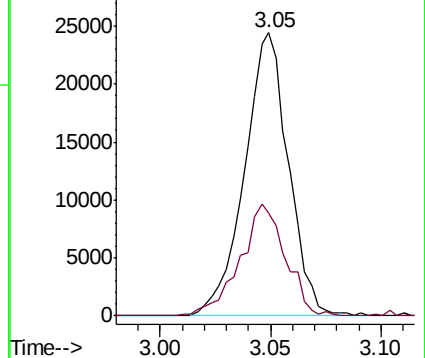
41 100

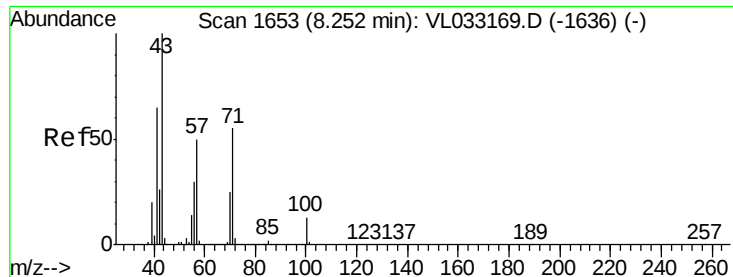
42 41.0 55.0 82.6#



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0





#10

Heptane

Concen: 0.050 ppbv

RT: 8.24 min Scan# 1650

Delta R.T. -0.01 min

Lab File: VL033219.D

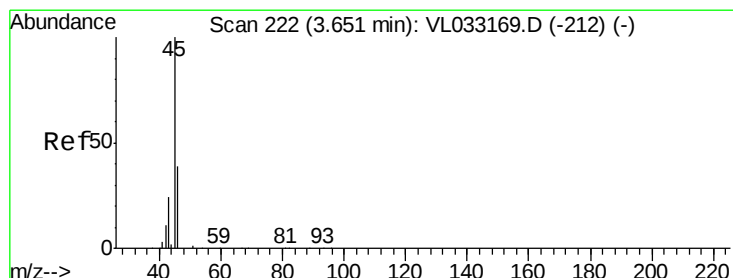
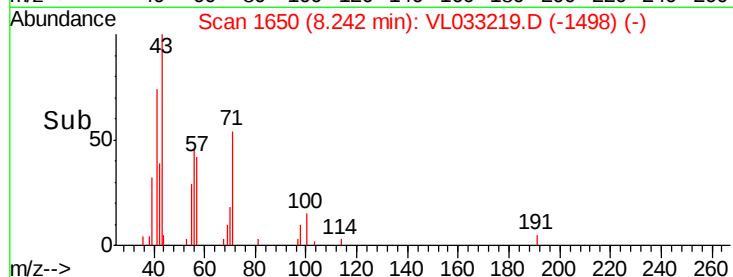
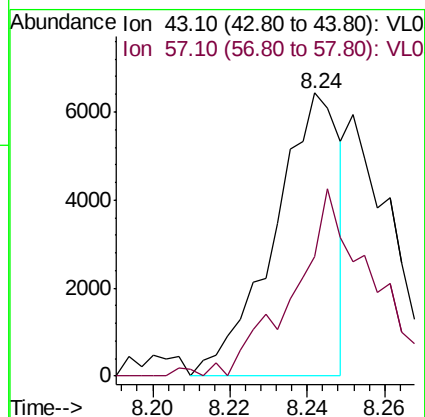
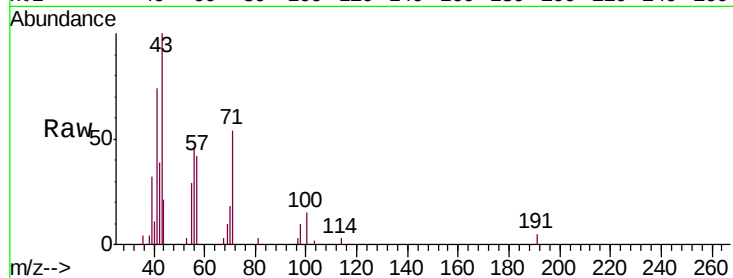
Acq: 15 Feb 2019 4:50

Tgt Ion: 43 Resp: 7557

Ion Ratio Lower Upper

43 100

57 80.1 39.5 59.3#



#13

Ethanol

Concen: 1.970 ppbv

RT: 3.66 min Scan# 225

Delta R.T. 0.01 min

Lab File: VL033219.D

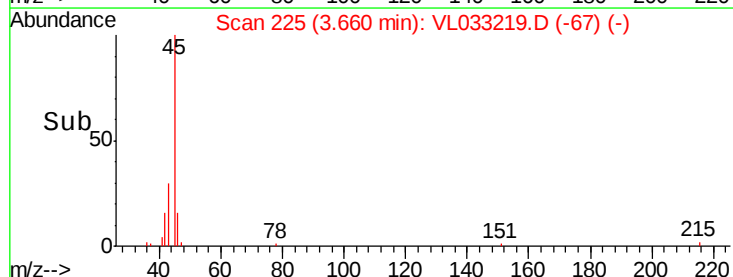
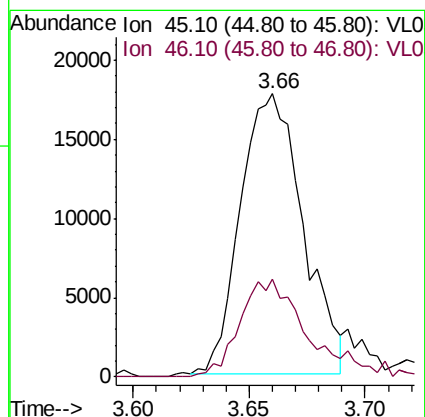
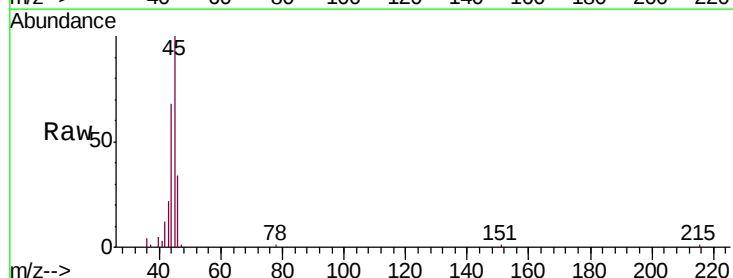
Acq: 15 Feb 2019 4:50

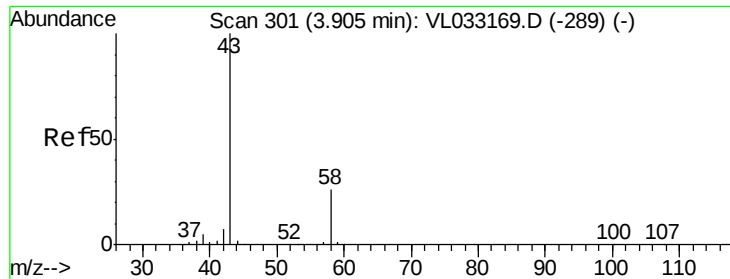
Tgt Ion: 45 Resp: 32994

Ion Ratio Lower Upper

45 100

46 38.3 15.0 60.2





#15

Acetone

Concen: 2.231 ppbv

RT: 3.90 min Scan# 301

Delta R.T. -0.00 min

Lab File: VL033219.D

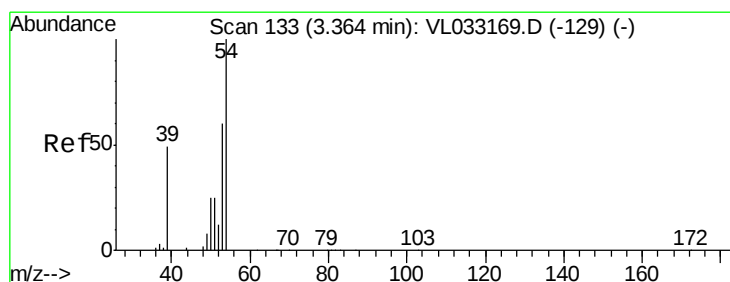
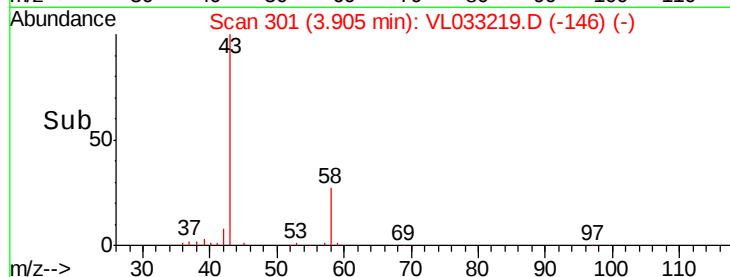
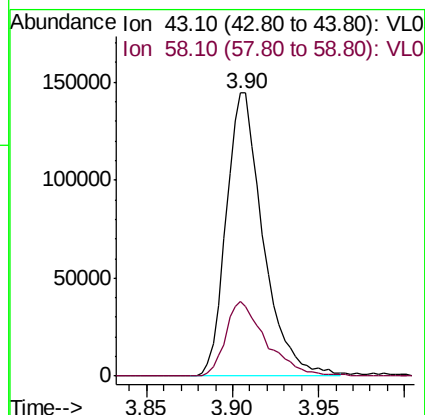
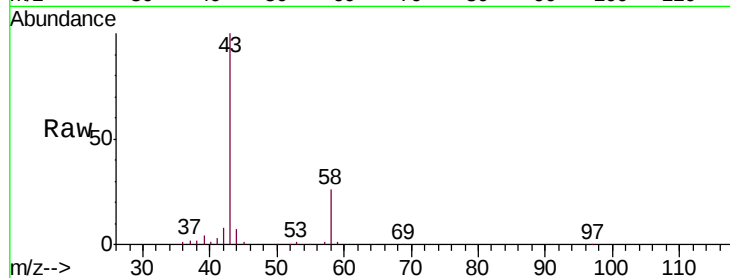
Acq: 15 Feb 2019 4:50

Tgt Ion: 43 Resp: 216981

Ion Ratio Lower Upper

43 100

58 29.4 21.1 31.7



#16

1,3-Butadiene

Concen: 0.581 ppbv

RT: 3.34 min Scan# 125

Delta R.T. -0.03 min

Lab File: VL033219.D

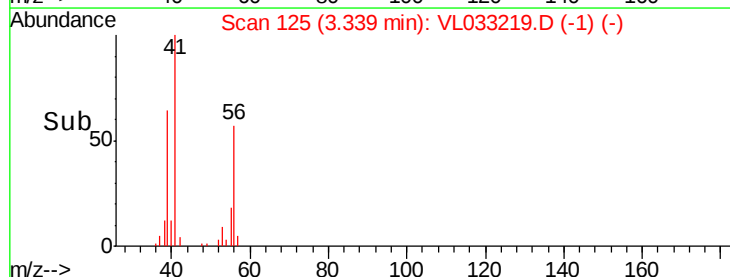
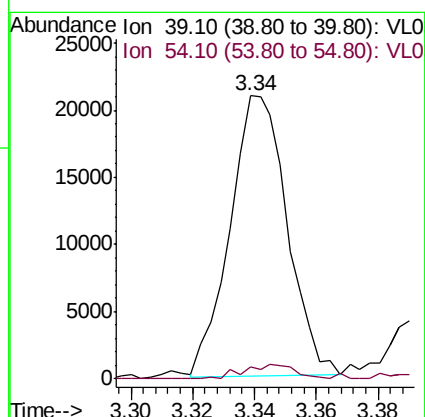
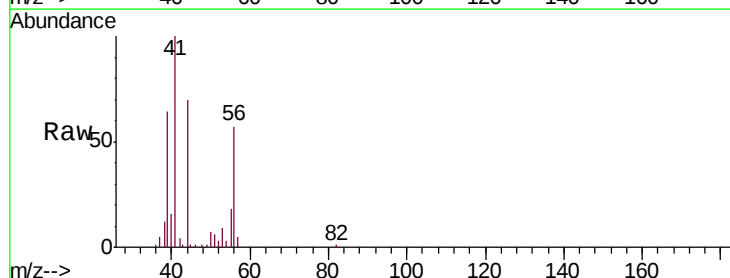
Acq: 15 Feb 2019 4:50

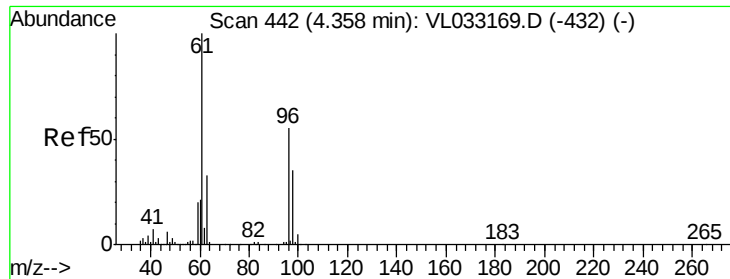
Tgt Ion: 39 Resp: 26845

Ion Ratio Lower Upper

39 100

54 4.9 71.3 106.9#





#17

tert-Butyl alcohol

Concen: 2.787 ppbv

RT: 4.38 min Scan# 448

Delta R.T. 0.02 min

Lab File: VL033219.D

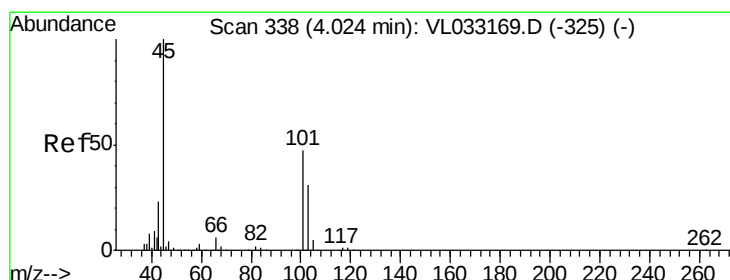
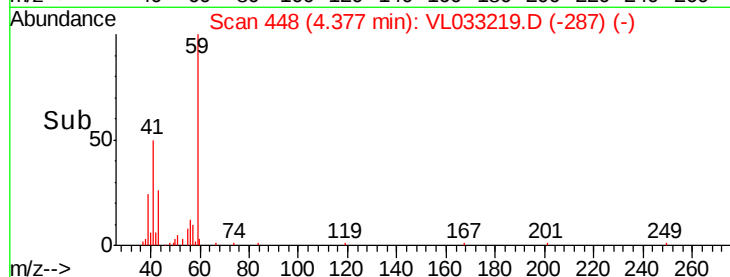
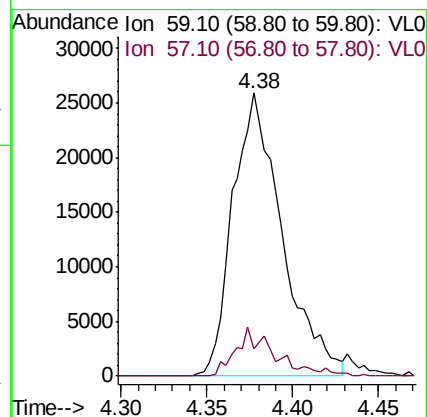
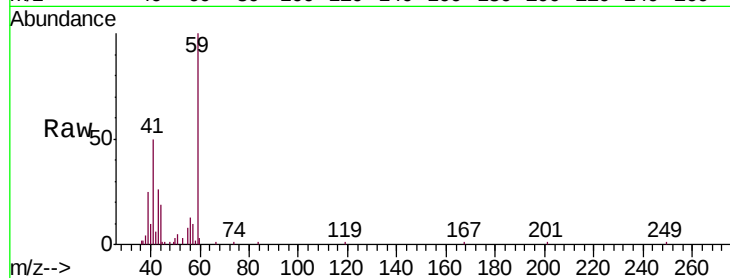
Acq: 15 Feb 2019 4:50

Tgt Ion: 59 Resp: 51689

Ion Ratio Lower Upper

59 100

57 13.8 7.6 11.4#



#19

Isopropyl Alcohol

Concen: 0.145 ppbv

RT: 4.04 min Scan# 343

Delta R.T. 0.02 min

Lab File: VL033219.D

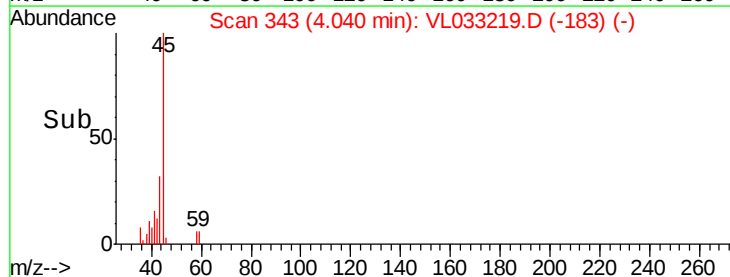
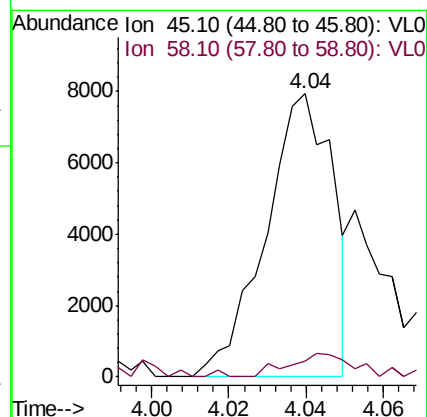
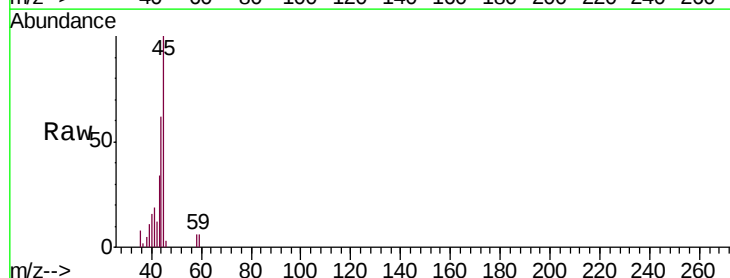
Acq: 15 Feb 2019 4:50

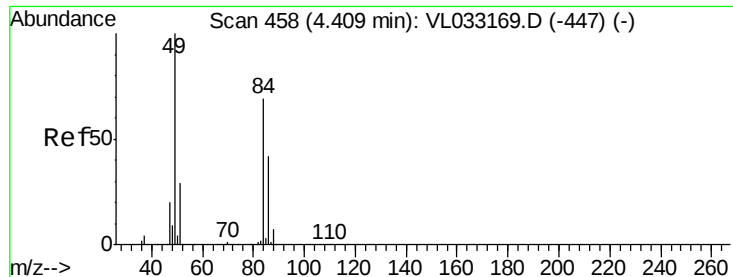
Tgt Ion: 45 Resp: 9597

Ion Ratio Lower Upper

45 100

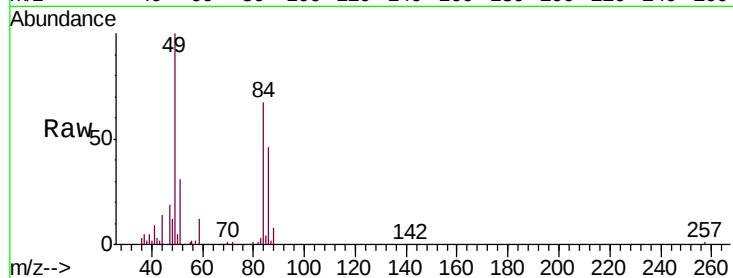
58 0.0 1.5 2.3#



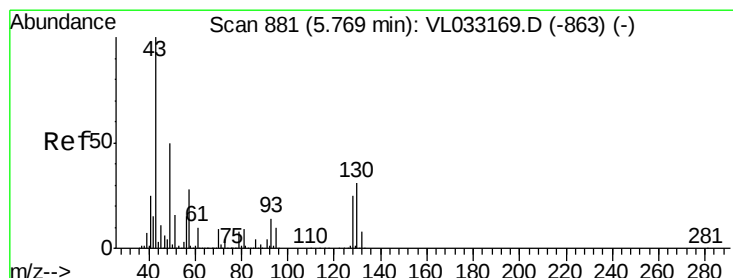
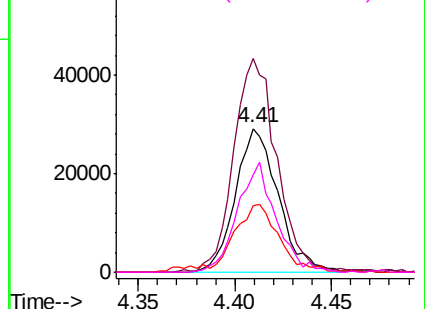
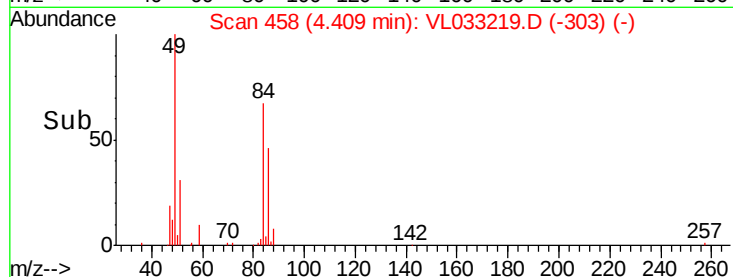


#20
Methylene Chloride
Concen: 1.158 ppbv
RT: 4.41 min Scan# 458
Delta R.T. -0.00 min
Lab File: VL033219.D
Acq: 15 Feb 2019 4:50

Tgt Ion:	84	Resp:	44809
Ion	Ratio	Lower	Upper
84	100		
49	146.4	115.8	173.8
51	45.4	33.0	49.6
86	68.2	48.2	72.2

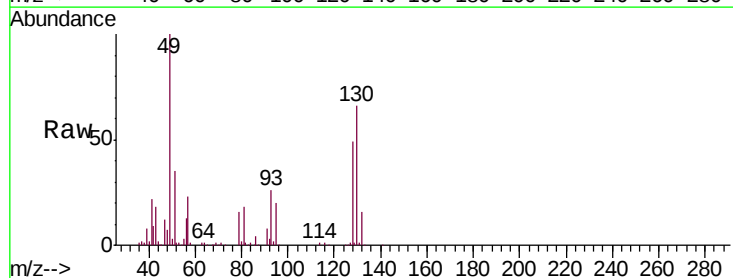


Abundance Ion 84.00 (83.70 to 84.70): VL0
Ion 49.10 (48.80 to 49.80): VL0
Ion 51.10 (50.80 to 51.80): VL0
Ion 86.00 (85.70 to 86.70): VL0

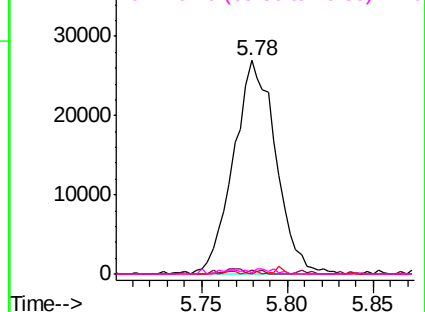
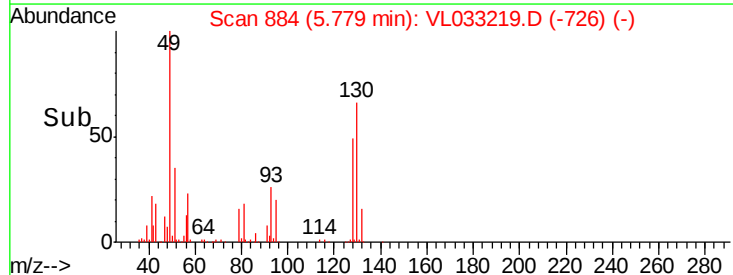


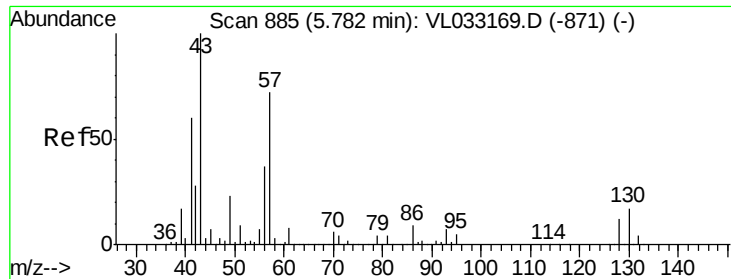
#25
Ethyl Acetate
Concen: 0.210 ppbv
RT: 5.78 min Scan# 884
Delta R.T. 0.01 min
Lab File: VL033219.D
Acq: 15 Feb 2019 4:50

Tgt Ion:	43	Resp:	46028
Ion	Ratio	Lower	Upper
43	100		
45	2.0	7.9	11.9#
61	0.6	7.5	11.3#
70	2.6	5.8	8.8#



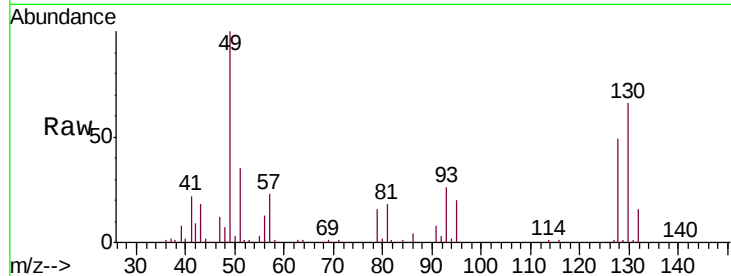
Abundance Ion 43.10 (42.80 to 43.80): VL0
Ion 45.10 (44.80 to 45.80): VL0
Ion 61.10 (60.80 to 61.80): VL0
Ion 70.10 (69.80 to 70.80): VL0



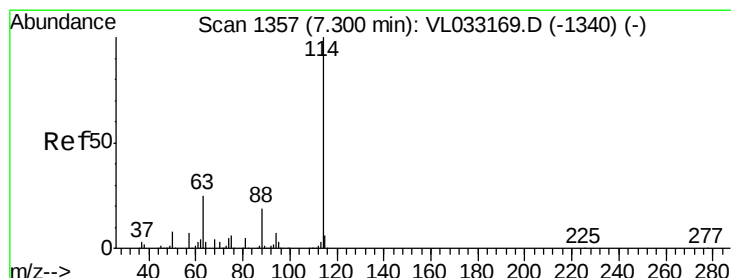
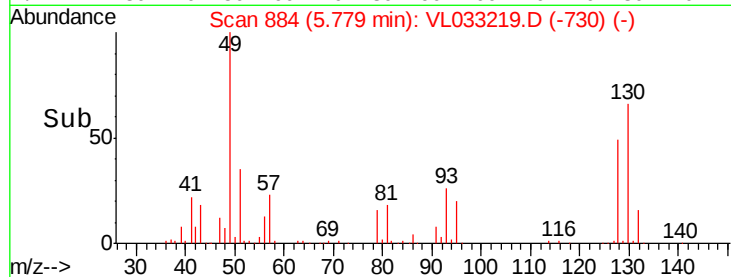
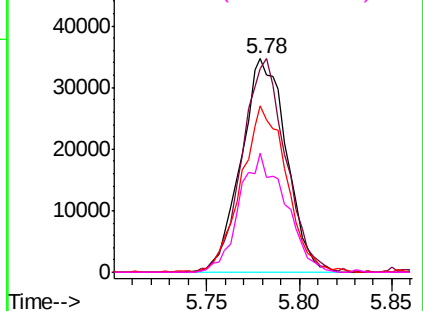


#26
Hexane
Concen: 0.573 ppbv
RT: 5.78 min Scan# 884
Delta R.T. -0.00 min
Lab File: VL033219.D
Acq: 15 Feb 2019 4:50

Tgt Ion: 57 Resp: 58782
Ion Ratio Lower Upper
57 100
41 96.7 69.4 104.2
43 78.7 176.7 265.1#
56 56.6 41.4 62.0

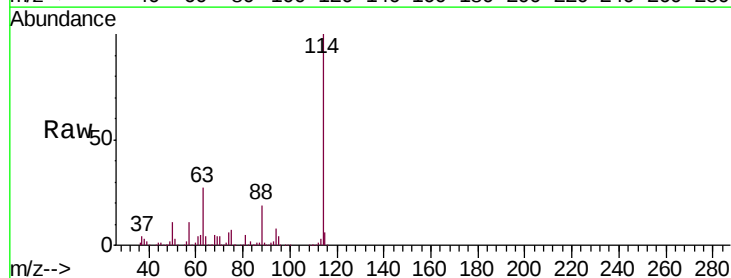


Abundance Ion 57.10 (56.80 to 57.80): VL0
Ion 41.10 (40.80 to 41.80): VL0
Ion 43.10 (42.80 to 43.80): VL0
Ion 56.10 (55.80 to 56.80): VL0



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.29 min Scan# 1354
Delta R.T. -0.01 min
Lab File: VL033219.D
Acq: 15 Feb 2019 4:50

Tgt Ion: 114 Resp: 1950659
Ion Ratio Lower Upper
114 100
63 26.8 20.8 31.2
88 18.7 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

