

Data Path : W:\HPCHEM1\MSVOA_L\DATA\VL012218\
 Data File : VL031429.D
 Acq On : 22 Jan 2018 23:39
 Operator : SY/AP
 Sample : J1089-11
 Misc : 400ml/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 MDL-AIR-4

Quant Time: Jan 23 06:21:22 2018
 Quant Method : W:\HPCHEM1\MSVOA_L\METHODS\VL012218AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Jan 22 17:52:32 2018
 QLast Update : Mon Jan 22 17:52:32 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.90	49	1175135	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.44	114	2699585	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.41	117	2628977	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.75	95	2162993	10.27	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	102.70%

Target Compounds						Qvalue
2) Dichlorodifluoromethane	3.18	85	35359	0.21	ppbv	100
3) Chlorodifluoromethane	3.11	51	20934	0.13	ppbv	95
4) Chloromethane	3.27	50	9616	0.14	ppbv #	82
5) Vinyl Chloride	3.40	62	8631	0.13	ppbv #	83
6) Bromomethane	3.62	94	2608	0.05	ppbv	82
7) Chloroethane	3.72	64	4068	0.14	ppbv #	74
8) Dichlorotetrafluoroethane	3.32	85	26997	0.15	ppbv	96
9) Propene	3.14	41	5773	0.11	ppbv	86
10) Heptane	8.40	43	9131	0.05	ppbv #	28
11) Trichlorofluoromethane	4.13	101	31713	0.14	ppbv	86
12) 1,1,2-Trichlorotrifluoroet	4.68	101	20257	0.14	ppbv	95
13) Ethanol	3.78	45	2873	0.18	ppbv	66
14) Bromoethene	3.90	108	3958	0.07	ppbv #	27
15) Acetone	4.04	43	30769	0.20	ppbv	99
16) 1,3-Butadiene	3.47	39	6503	0.10	ppbv #	78
17) tert-Butyl alcohol	4.48	59	97	0.00	ppbv #	71
18) 1,1-Dichloroethene	4.48	96	7565	0.12	ppbv	86
19) Isopropyl Alcohol	4.17	45	9636	0.10	ppbv #	93
20) Methylene Chloride	4.54	84	16928	0.28	ppbv	87
21) Allyl Chloride	4.61	41	11348	0.12	ppbv	99
22) trans-1,2-Dichloroethene	5.10	96	8493	0.13	ppbv	92
23) Vinyl Acetate	5.28	43	2275	0.01	ppbv #	78
24) 1,1-Dichloroethane	5.22	63	22400	0.14	ppbv	96
25) Ethyl Acetate	5.93	43	32953	0.12	ppbv #	98
26) Hexane	5.92	57	12165	0.10	ppbv #	64
27) Carbon Disulfide	4.76	76	18502	0.11	ppbv #	78
28) Methyl tert-Butyl Ether	5.27	73	14709	0.10	ppbv	97
29) Chloroform	5.99	83	26505	0.12	ppbv	91
30) Cyclohexane	7.40	84	4550	0.05	ppbv #	1
31) cis-1,2-Dichloroethene	5.78	61	13274	0.11	ppbv	89
32) 1,1,1-Trichloroethane	6.77	97	12872	0.06	ppbv #	16
34) 2-Butanone	5.49	43	20548	0.12	ppbv	99
35) Carbon Tetrachloride	7.29	117	28821	0.13	ppbv	96
36) Benzene	7.17	78	9783	0.04	ppbv	97
37) 1,2-Dichloroethane	6.56	62	23232	0.12	ppbv #	96
38) Trichloroethene	8.12	130	10187	0.11	ppbv #	80
39) 1,2-Dichloropropane	7.44	63	748726	8.31	ppbv #	22
40) 1,4-Dioxane	8.16	88	237	0.01	ppbv #	1
41) Tetrahydrofuran	6.34	42	8799	0.09	ppbv	94
42) Bromodichloromethane	8.07	83	26927	0.12	ppbv	94
43) Methyl Methacrylate	8.31	69	8179	0.09	ppbv	96

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Quant Time: Jan 23 06:21:22 2018
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 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Jan 22 17:52:32 2018
 QLast Update : Mon Jan 22 17:52:32 2018
 Response via : Initial Calibration

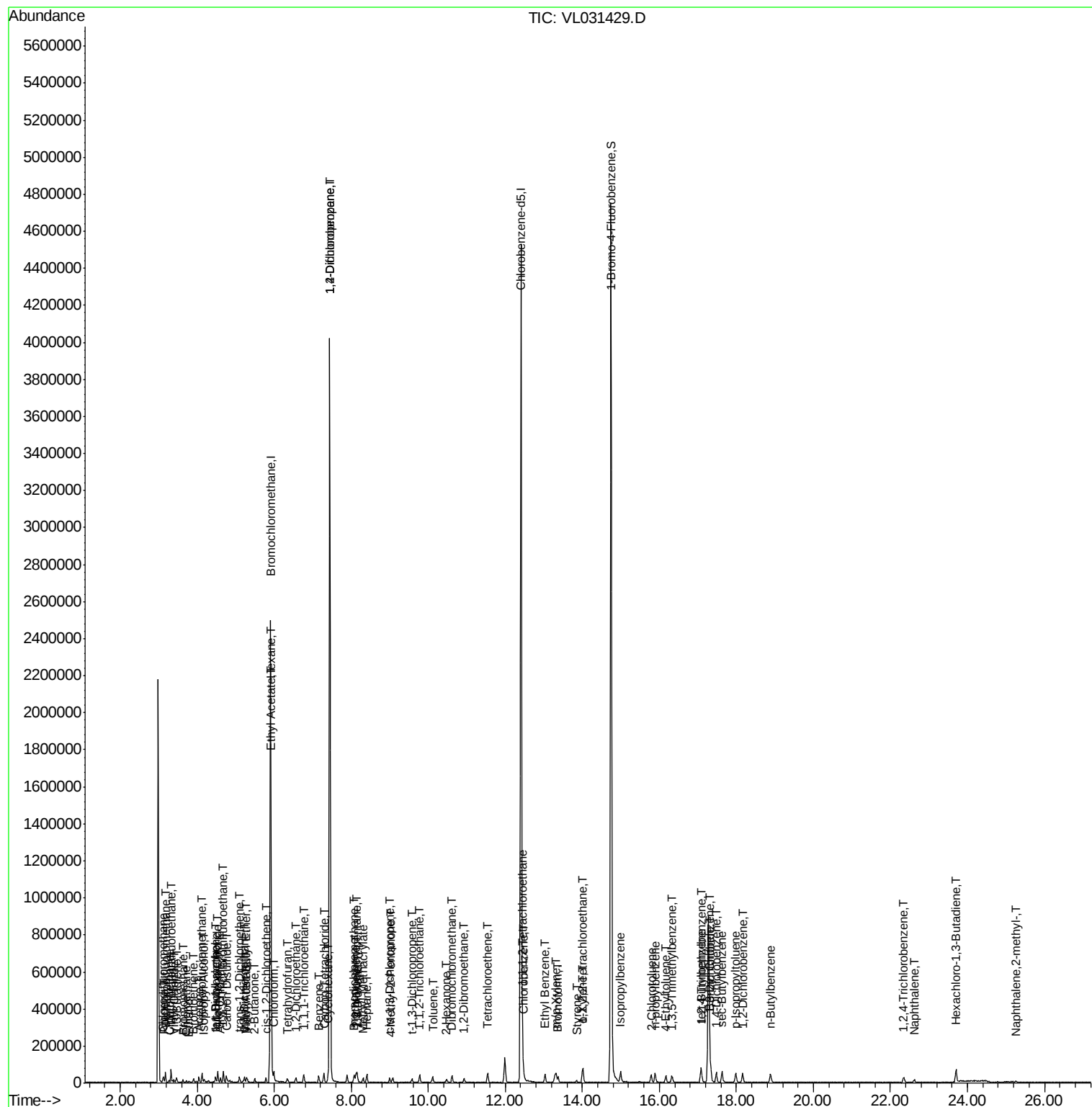
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	8.15	57	22909	0.06	ppbv	# 41
45) t-1,3-Dichloropropene	9.58	75	2814	0.02	ppbv	89
46) cis-1,3-Dichloropropene	8.99	75	12530	0.08	ppbv	90
47) 1,1,2-Trichloroethane	9.77	97	8099	0.08	ppbv	# 89
48) Dibromochloromethane	10.61	129	12745	0.07	ppbv	# 10
49) Bromoform	13.37	173	2556	0.02	ppbv	# 1
50) 4-Methyl-2-Pentanone	9.03	43	213	0.00	ppbv	# 41
51) 2-Hexanone	10.46	43	4916	0.02	ppbv	# 31
52) Tetrachloroethene	11.54	164	10016	0.11	ppbv	# 79
53) Toluene	10.11	91	10688	0.04	ppbv	# 1
54) 1,2-Dibromoethane	10.93	107	17069	0.10	ppbv	85
56) 1,1,1,2-Tetrachloroethane	12.46	131	6073	0.05	ppbv	# 1
57) Chlorobenzene	12.47	112	27458	0.12	ppbv	# 70
58) Ethyl Benzene	13.03	91	35707	0.09	ppbv	95
59) m/p-Xylene	13.32	91	26127	0.08	ppbv	# 18
60) o-Xylene	14.02	91	27276	0.08	ppbv	99
61) Styrene	13.86	104	2173	0.03	ppbv	# 1
62) Isopropylbenzene	15.00	105	42258	0.10	ppbv	97
63) 1,1,2,2-Tetrachloroethane	14.01	83	27920	0.12	ppbv	95
64) n-propylbenzene	15.89	120	2654	0.03	ppbv	# 1
65) tert-Butylbenzene	17.08	119	9993	0.03	ppbv	# 16
66) Benzyl Chloride	17.33	91	301	0.01	ppbv	# 1
67) sec-Butylbenzene	17.63	105	46717	0.09	ppbv	99
69) p-Isopropyltoluene	17.98	119	33013	0.08	ppbv	94
70) n-Butylbenzene	18.88	91	19247	0.05	ppbv	# 34
71) 2-Chlorotoluene	15.78	91	17226	0.06	ppbv	# 45
72) 4-Ethyltoluene	16.16	105	12192	0.04	ppbv	# 46
73) 1,3,5-Trimethylbenzene	16.33	105	25000	0.08	ppbv	# 77
74) 1,2,4-Trimethylbenzene	17.10	105	26734	0.08	ppbv	# 92
75) 1,3-Dichlorobenzene	17.33	146	14613	0.07	ppbv	# 19
76) 1,4-Dichlorobenzene	17.48	146	18709	0.09	ppbv	81
77) 1,2-Dichlorobenzene	18.16	146	3840	0.02	ppbv	# 1
78) Hexachloro-1,3-Butadiene	23.70	225	4717	0.07	ppbv	# 18
79) Naphthalene	22.61	128	7012	0.03	ppbv	# 94
80) Naphthalene,2-methyl-	25.26	142	3541	0.06	ppbv	# 93
81) 1,2,4-Trichlorobenzene	22.33	180	3982	0.04	ppbv	# 4

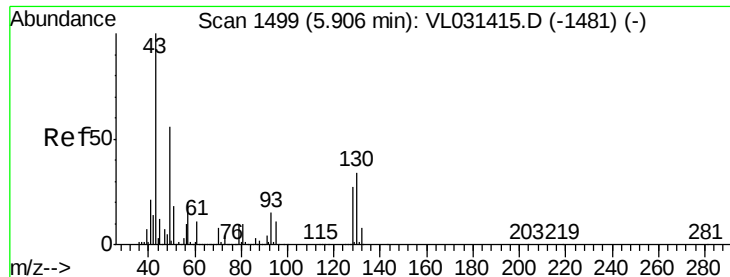
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Bromochloromethane

Concen: 10.00 ppbv

RT: 5.90 min Scan# 1498

Delta R.T. -0.01 min

Lab File: VL031429.D

Acq: 22 Jan 2018 23:39

Instrument :

MSVOA_L

ClientSampleId :

MDL-AIR-4

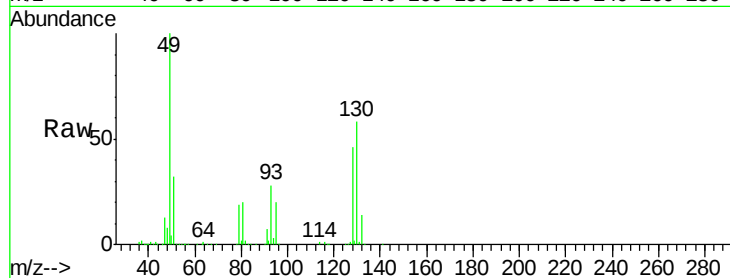
Tgt Ion: 49 Resp: 1175135

Ion Ratio Lower Upper

49 100

128 45.8 23.5 70.6

130 58.5 29.9 89.7



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

5.90

800000

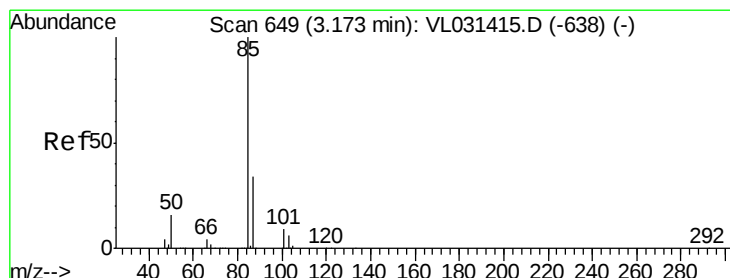
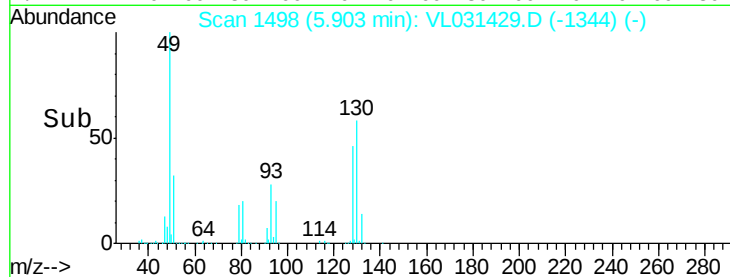
600000

400000

200000

0

Time--> 5.80 5.85 5.90 5.95 6.00



#2

Dichlorodifluoromethane

Concen: 0.21 ppbv

RT: 3.18 min Scan# 651

Delta R.T. 0.00 min

Lab File: VL031429.D

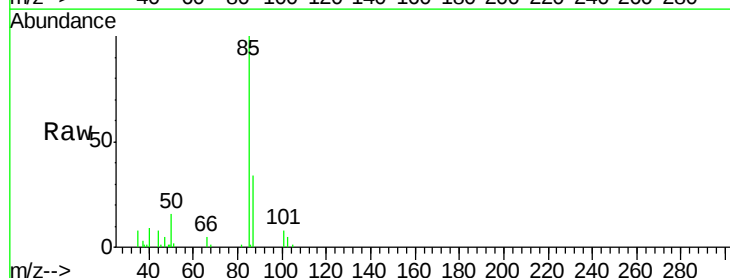
Acq: 22 Jan 2018 23:39

Tgt Ion: 85 Resp: 35359

Ion Ratio Lower Upper

85 100

87 33.9 27.4 41.0



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0

3.18

30000

25000

20000

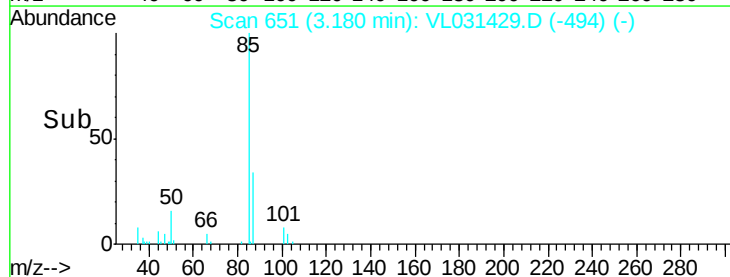
15000

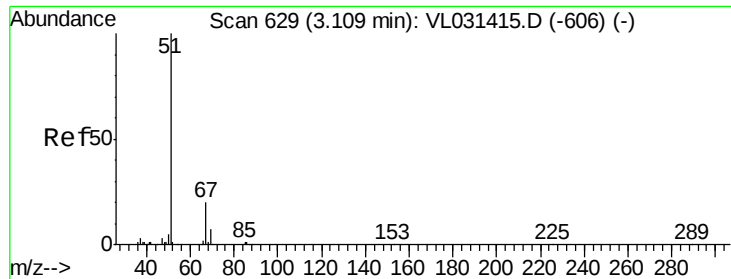
10000

5000

0

Time--> 3.15 3.20





#3

Chlorodifluoromethane

Concen: 0.13 ppbv

RT: 3.11 min Scan# 630

Delta R.T. 0.00 min

Lab File: VL031429.D

Acq: 22 Jan 2018 23:39

Instrument :

MSVOA_L

ClientSampleId :

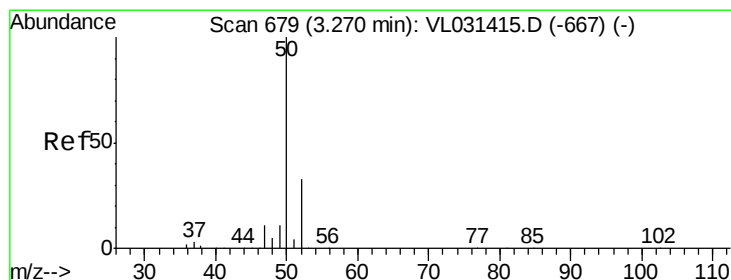
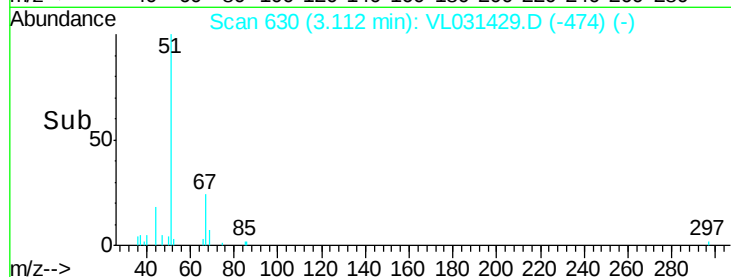
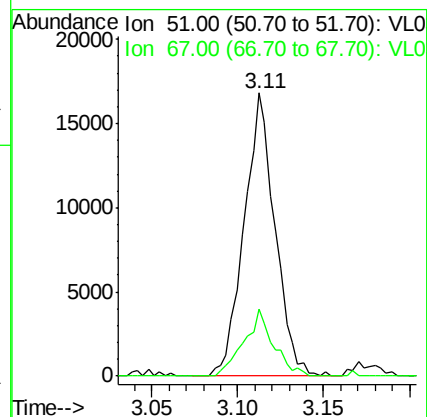
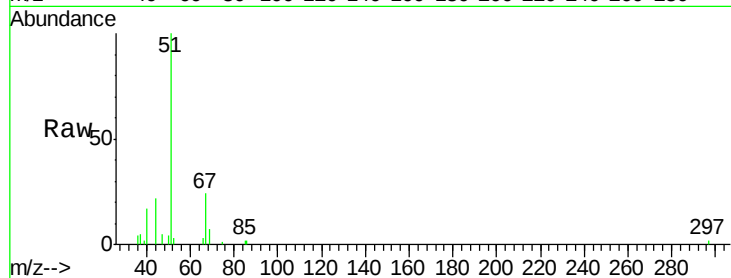
MDL-AIR-4

Tgt Ion: 51 Resp: 20934

Ion Ratio Lower Upper

51 100

67 22.3 16.0 24.0



#4

Chloromethane

Concen: 0.14 ppbv

RT: 3.27 min Scan# 680

Delta R.T. 0.00 min

Lab File: VL031429.D

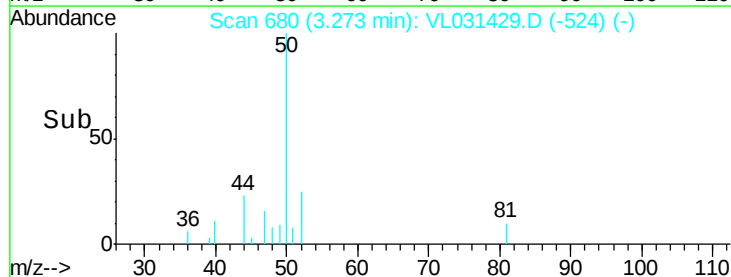
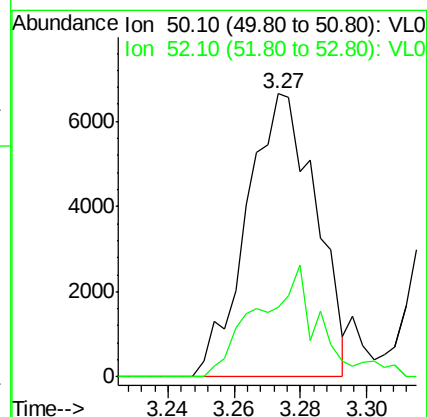
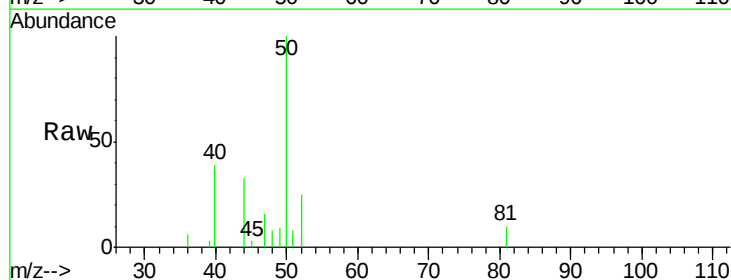
Acq: 22 Jan 2018 23:39

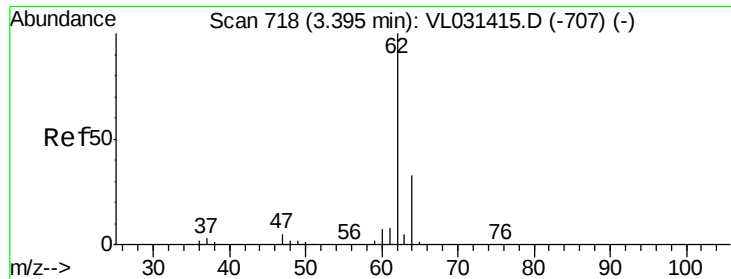
Tgt Ion: 50 Resp: 9616

Ion Ratio Lower Upper

50 100

52 22.9 26.4 39.6#





#5

Vinyl Chloride

Concen: 0.13 ppbv

RT: 3.40 min Scan# 719

Delta R.T. 0.00 min

Lab File: VL031429.D

Acq: 22 Jan 2018 23:39

Instrument :

MSVOA_L

ClientSampleId :

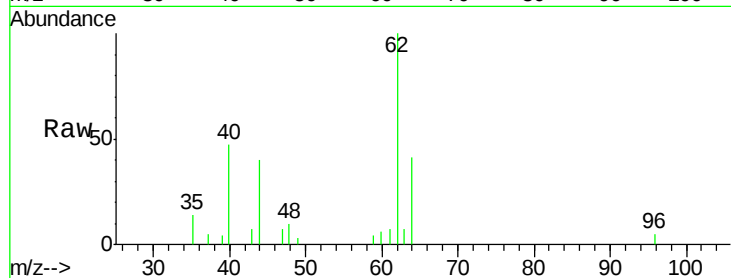
MDL-AIR-4

Tgt Ion: 62 Resp: 8631

Ion Ratio Lower Upper

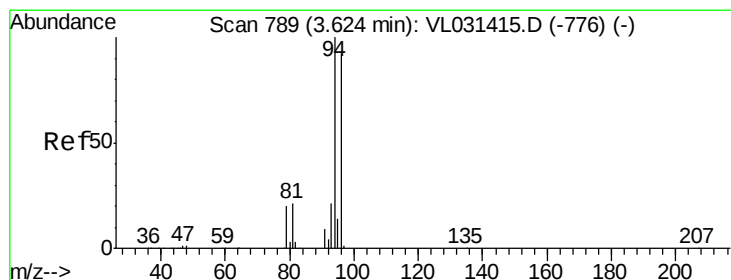
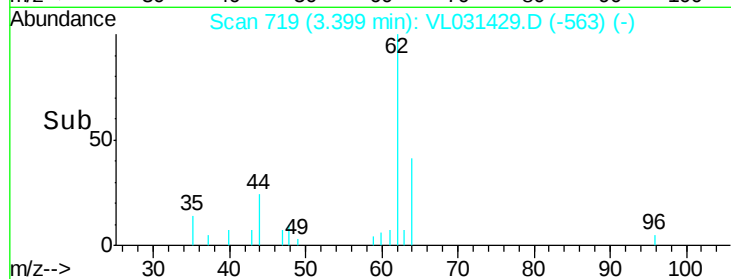
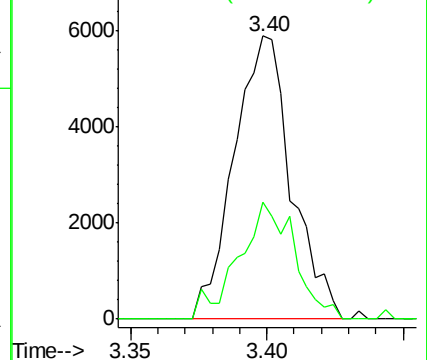
62 100

64 41.4 25.4 38.0#



Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 64.10 (63.80 to 64.80): VL0



#6

Bromomethane

Concen: 0.05 ppbv

RT: 3.62 min Scan# 788

Delta R.T. -0.01 min

Lab File: VL031429.D

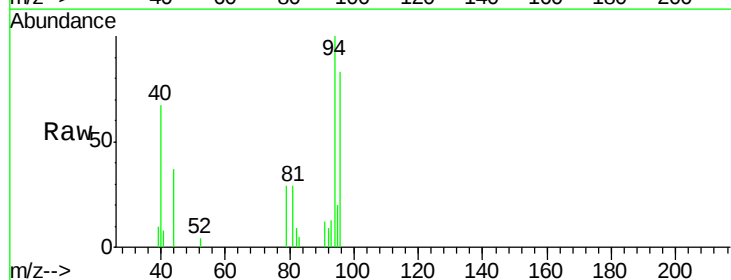
Acq: 22 Jan 2018 23:39

Tgt Ion: 94 Resp: 2608

Ion Ratio Lower Upper

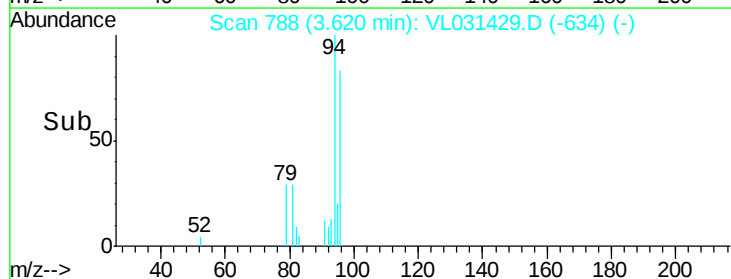
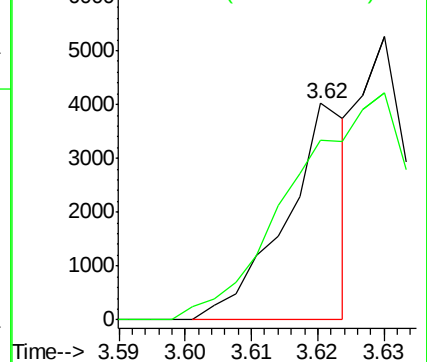
94 100

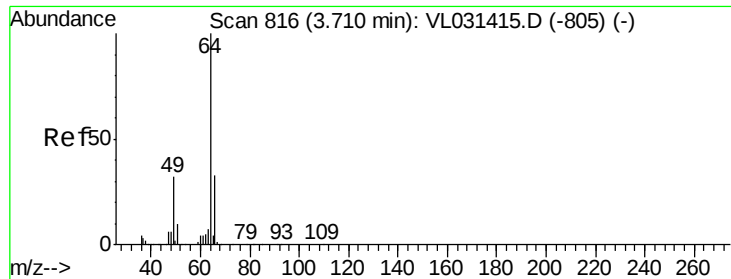
96 76.8 75.1 112.7



Abundance Ion 94.00 (93.70 to 94.70): VL0

Ion 96.00 (95.70 to 96.70): VL0





#7

Chloroethane

Concen: 0.14 ppbv

RT: 3.72 min Scan# 818

Delta R.T. 0.00 min

Lab File: VL031429.D

Acq: 22 Jan 2018 23:39

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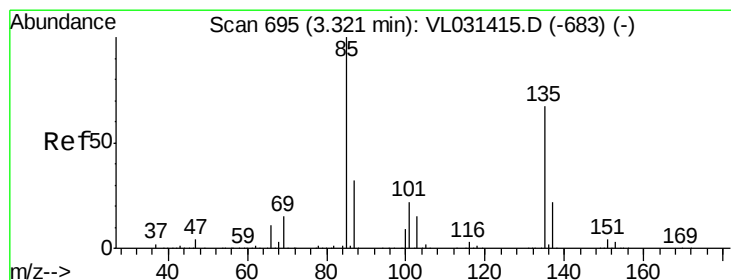
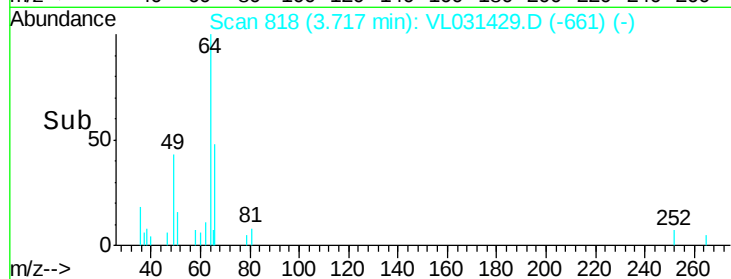
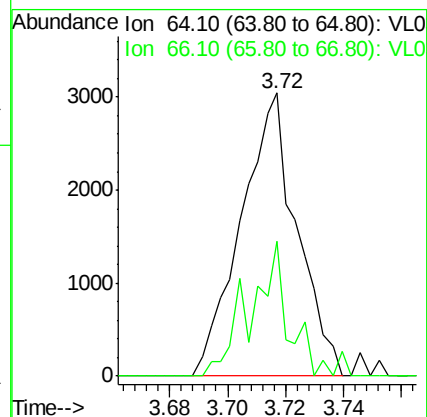
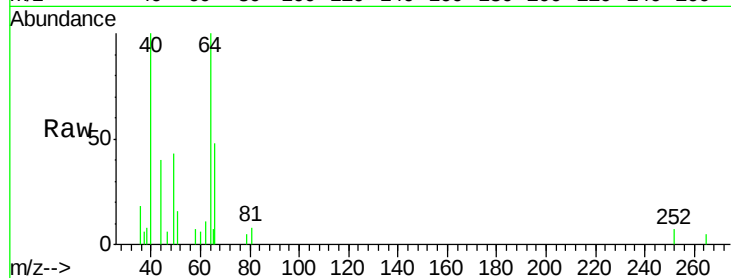
MDL-AIR-4

Tgt Ion: 64 Resp: 4068

Ion Ratio Lower Upper

64 100

66 47.6 26.3 39.5#



#8

Dichlorotetrafluoroethane

Concen: 0.15 ppbv

RT: 3.32 min Scan# 695

Delta R.T. -0.00 min

Lab File: VL031429.D

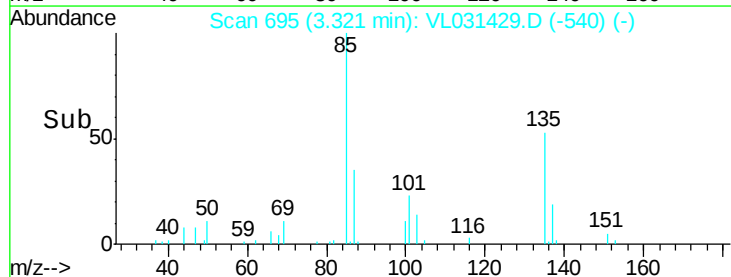
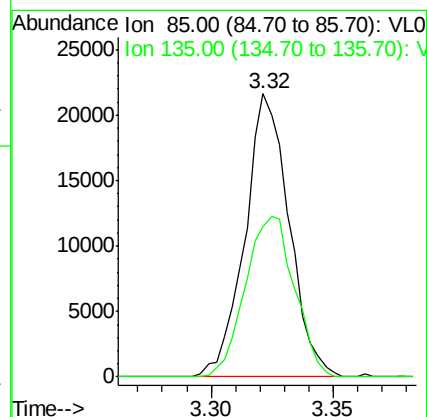
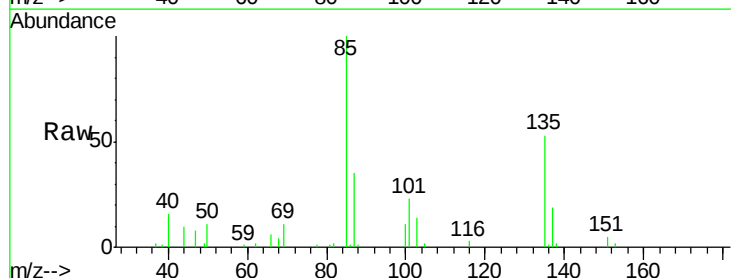
Acq: 22 Jan 2018 23:39

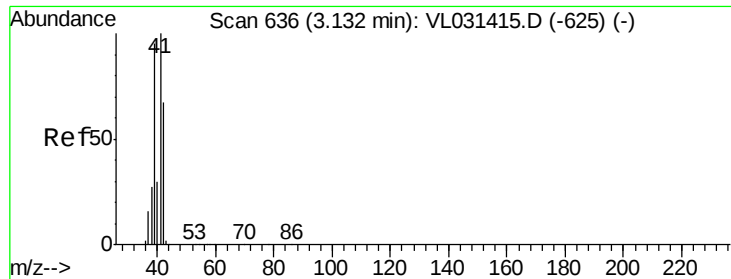
Tgt Ion: 85 Resp: 26997

Ion Ratio Lower Upper

85 100

135 63.3 53.3 79.9





#9

Propene

Concen: 0.11 ppbv

RT: 3.14 min Scan# 638

Delta R.T. 0.00 min

Lab File: VL031429.D

Acq: 22 Jan 2018 23:39

Instrument :

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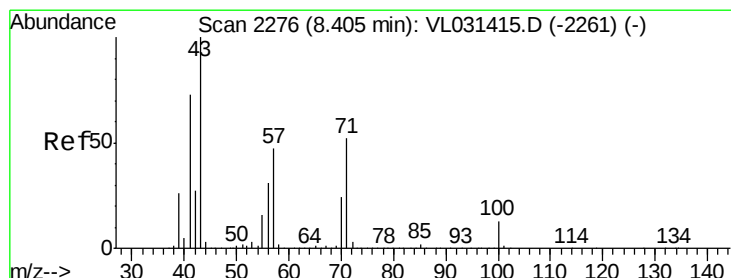
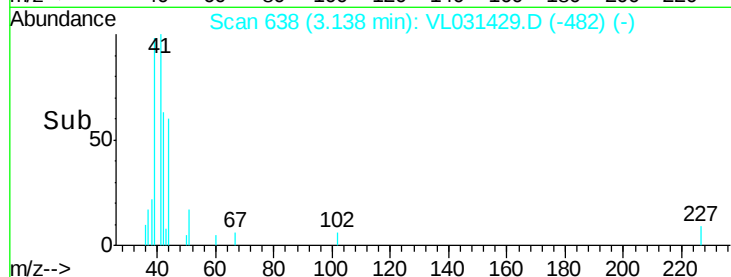
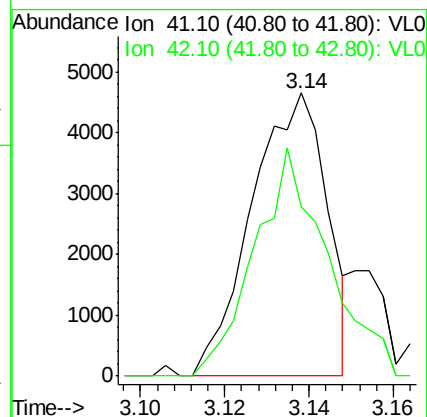
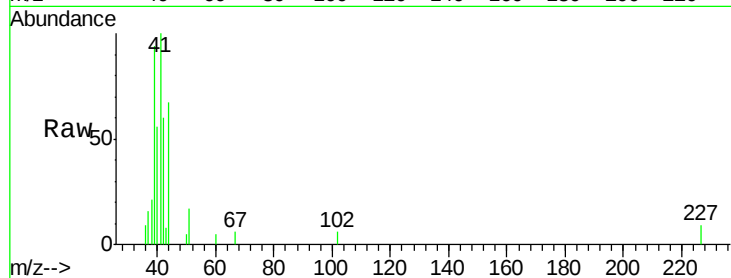
MDL-AIR-4

Tgt Ion: 41 Resp: 5773

Ion Ratio Lower Upper

41 100

42 79.4 54.6 82.0



#10

Heptane

Concen: 0.05 ppbv

RT: 8.40 min Scan# 2275

Delta R.T. -0.01 min

Lab File: VL031429.D

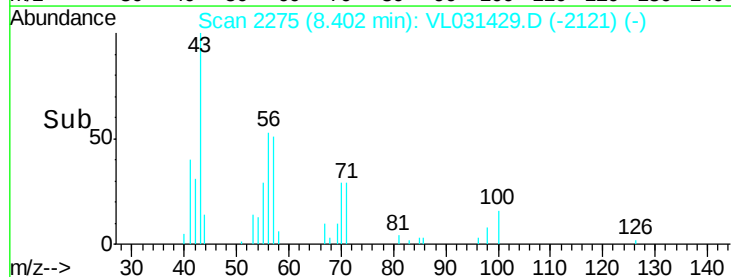
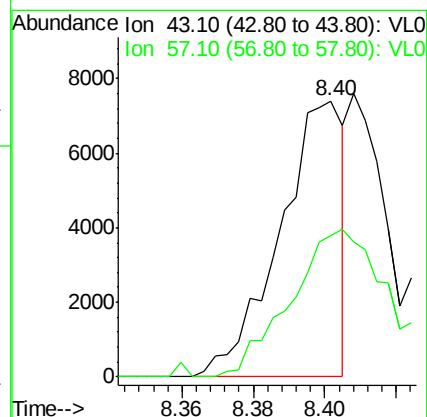
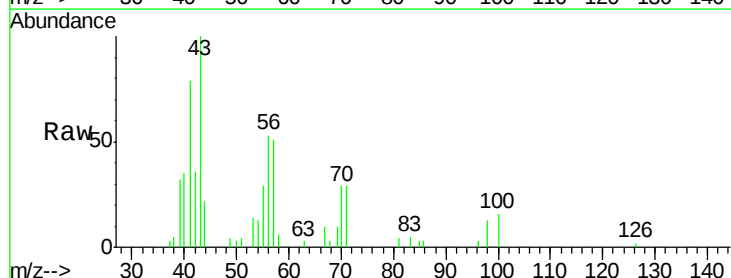
Acq: 22 Jan 2018 23:39

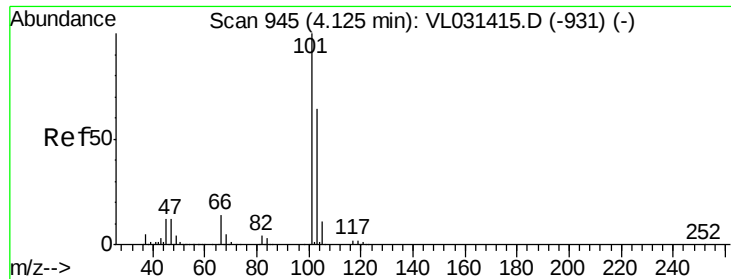
Tgt Ion: 43 Resp: 9131

Ion Ratio Lower Upper

43 100

57 0.0 39.7 59.5#

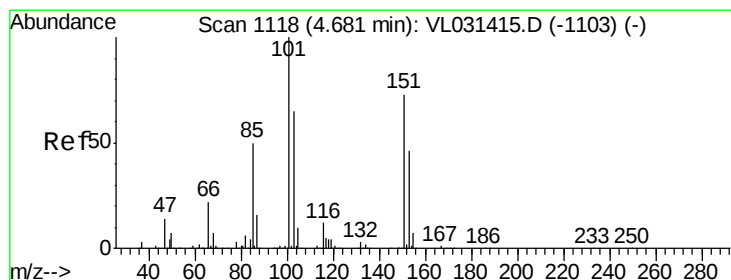
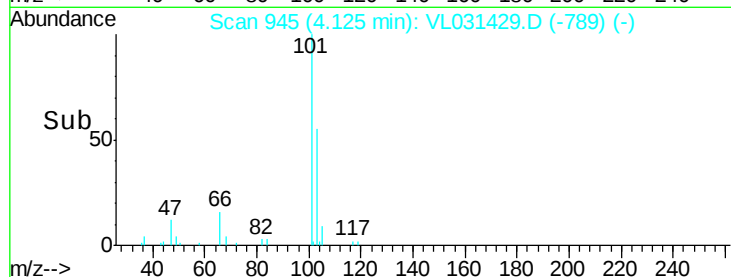
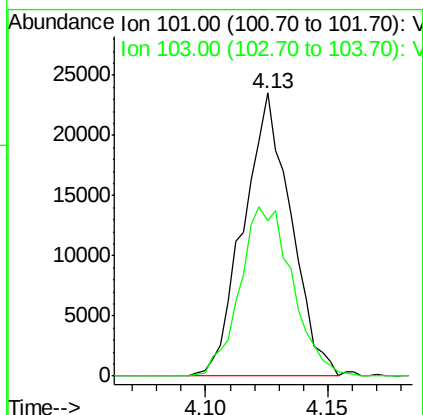
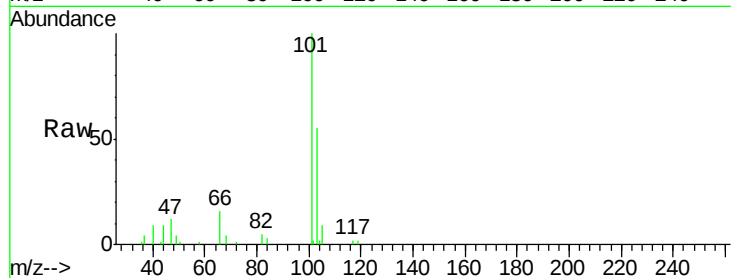




#11
 Trichlorofluoromethane
 Concen: 0.14 ppbv
 RT: 4.13 min Scan# 945
 Delta R.T. 0.00 min
 Lab File: VL031429.D
 Acq: 22 Jan 2018 23:39

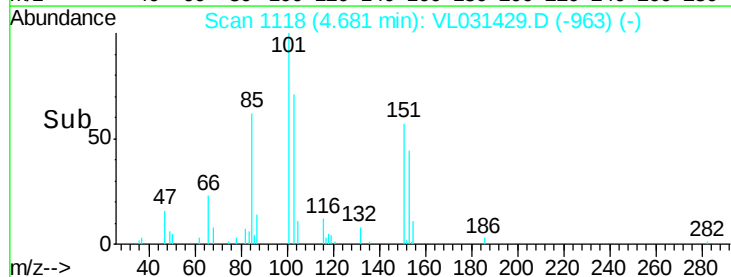
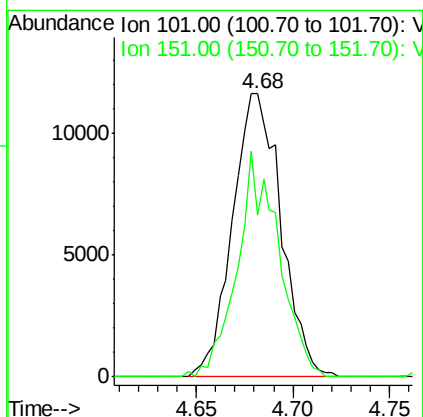
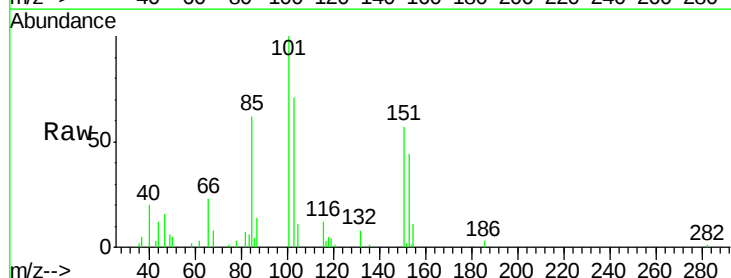
Instrument :
 MSVOA_L
 ClientSampled :
 MDL-AIR-4

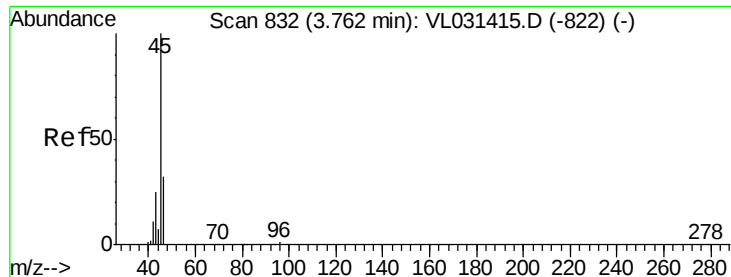
Tgt Ion:101 Resp: 31713
 Ion Ratio Lower Upper
 101 100
 103 55.0 53.1 79.7



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 0.14 ppbv
 RT: 4.68 min Scan# 1118
 Delta R.T. -0.00 min
 Lab File: VL031429.D
 Acq: 22 Jan 2018 23:39

Tgt Ion:101 Resp: 20257
 Ion Ratio Lower Upper
 101 100
 151 68.0 58.1 87.1





#13

Ethanol

Concen: 0.18 ppbv

RT: 3.78 min Scan# 839

Delta R.T. 0.02 min

Lab File: VL031429.D

Acq: 22 Jan 2018 23:39

Instrument :

MSVOA_L

ClientSampleId :

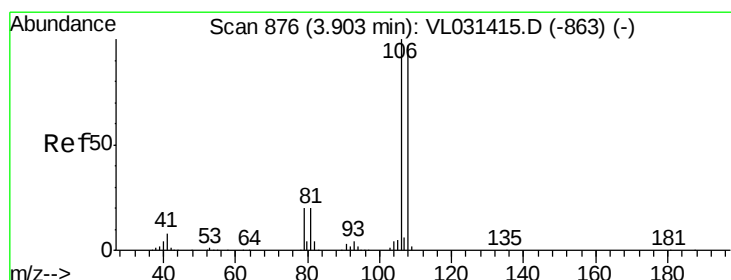
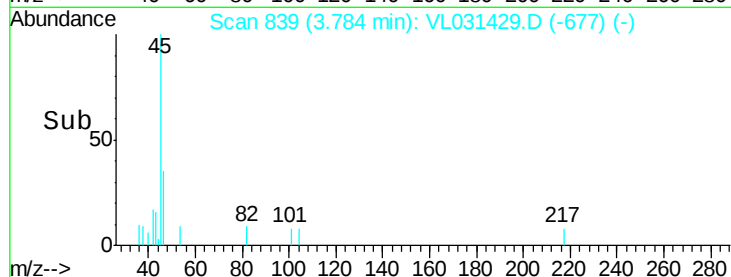
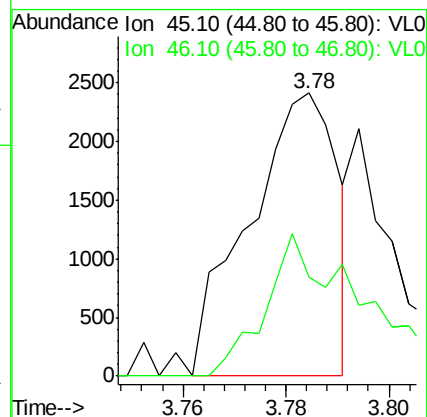
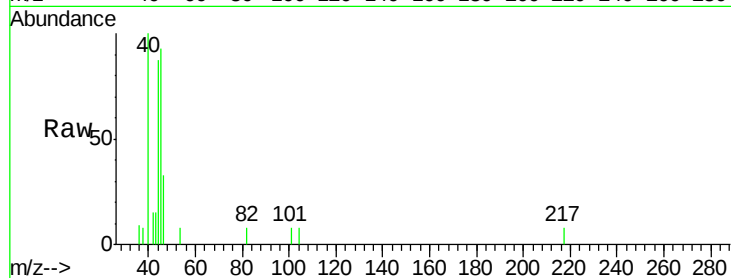
MDL-AIR-4

Tgt Ion: 45 Resp: 2873

Ion Ratio Lower Upper

45 100

46 57.3 14.9 59.5



#14

Bromoethene

Concen: 0.07 ppbv

RT: 3.90 min Scan# 876

Delta R.T. -0.00 min

Lab File: VL031429.D

Acq: 22 Jan 2018 23:39

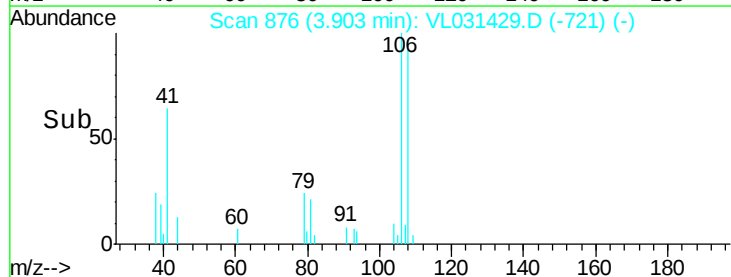
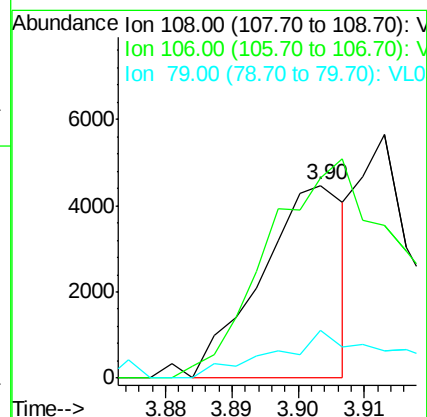
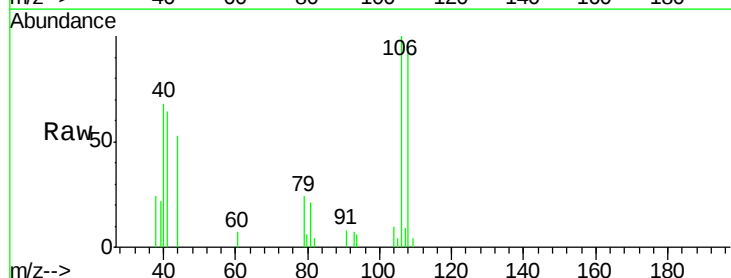
Tgt Ion: 108 Resp: 3958

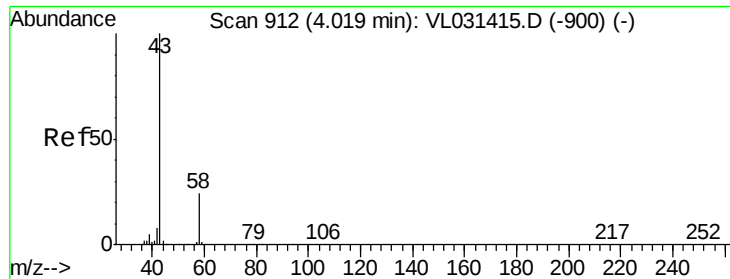
Ion Ratio Lower Upper

108 100

106 186.1 85.3 127.9#

79 45.5 16.8 25.2#





#15

Acetone

Concen: 0.20 ppbv

RT: 4.04 min Scan# 919

Delta R.T. 0.02 min

Lab File: VL031429.D

Acq: 22 Jan 2018 23:39

Instrument :

MSVOA_L

ClientSampleId :

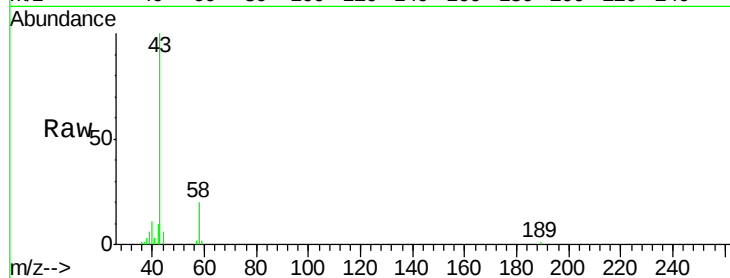
MDL-AIR-4

Tgt Ion: 43 Resp: 30769

Ion Ratio Lower Upper

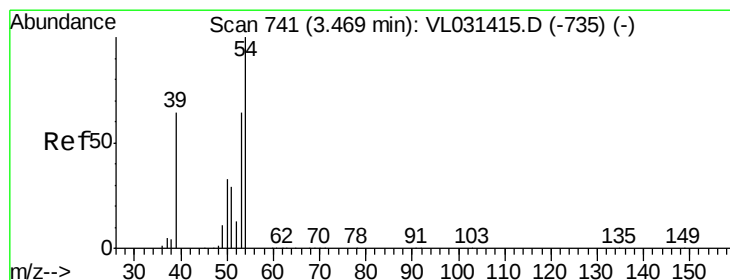
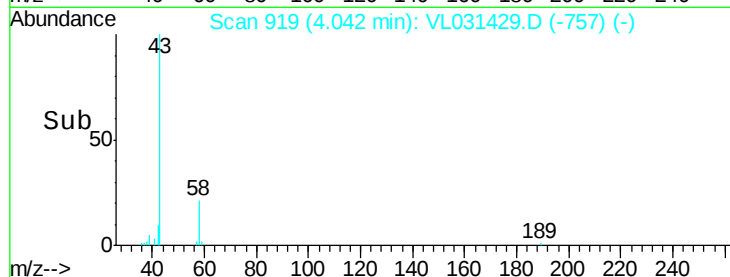
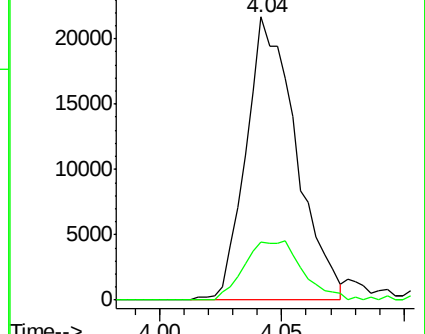
43 100

58 24.7 19.4 29.2



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0



#16

1,3-Butadiene

Concen: 0.10 ppbv

RT: 3.47 min Scan# 741

Delta R.T. -0.00 min

Lab File: VL031429.D

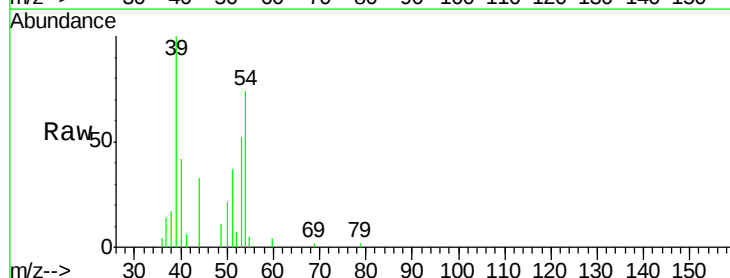
Acq: 22 Jan 2018 23:39

Tgt Ion: 39 Resp: 6503

Ion Ratio Lower Upper

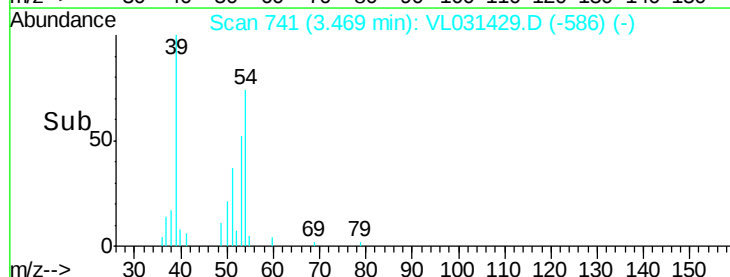
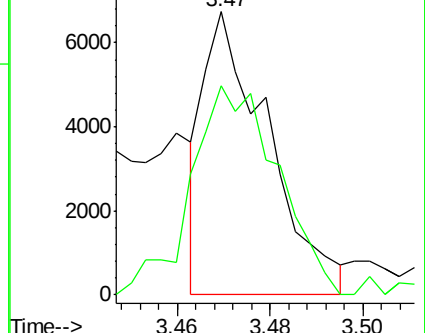
39 100

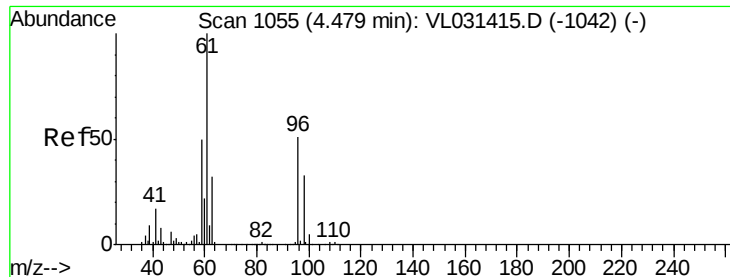
54 103.5 67.0 100.6#



Abundance Ion 39.10 (38.80 to 39.80): VL0

Ion 54.10 (53.80 to 54.80): VL0





#17

tert-Butyl alcohol

Concen: 0.00 ppbv

RT: 4.48 min Scan# 1054

Delta R.T. -0.01 min

Lab File: VL031429.D

Acq: 22 Jan 2018 23:39

Instrument :

MSVOA_L

ClientSampleId :

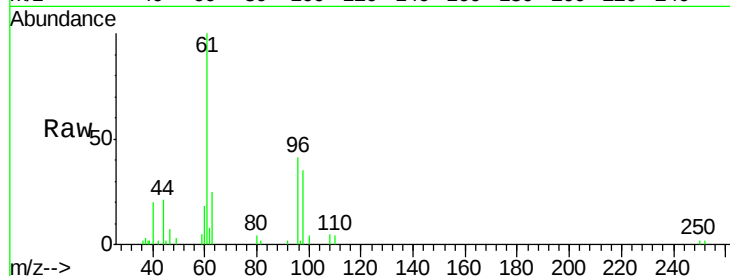
MDL-AIR-4

Tgt Ion: 59 Resp: 97

Ion Ratio Lower Upper

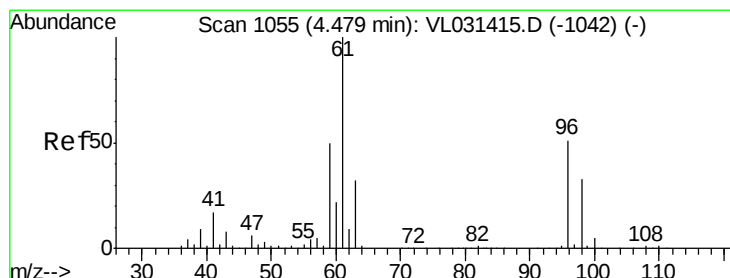
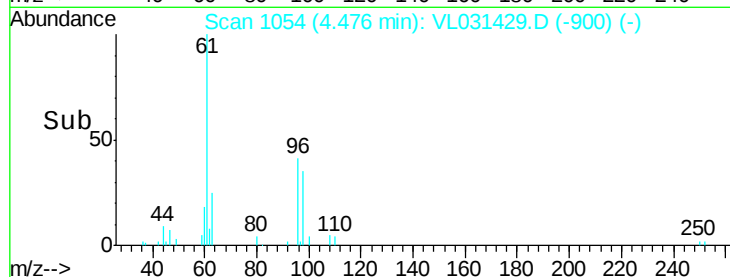
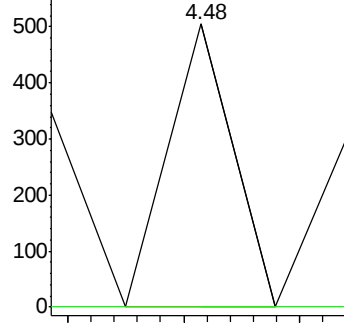
59 100

57 0.0 8.6 13.0#



Abundance Ion 59.10 (58.80 to 59.80): VL0

Ion 57.10 (56.80 to 57.80): VL0



#18

1,1-Dichloroethene

Concen: 0.12 ppbv

RT: 4.48 min Scan# 1056

Delta R.T. 0.00 min

Lab File: VL031429.D

Acq: 22 Jan 2018 23:39

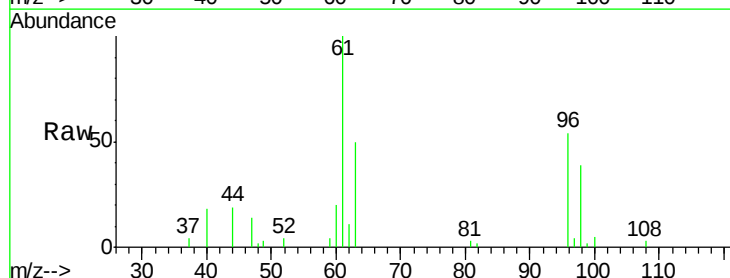
Tgt Ion: 96 Resp: 7565

Ion Ratio Lower Upper

96 100

61 181.0 161.6 242.4

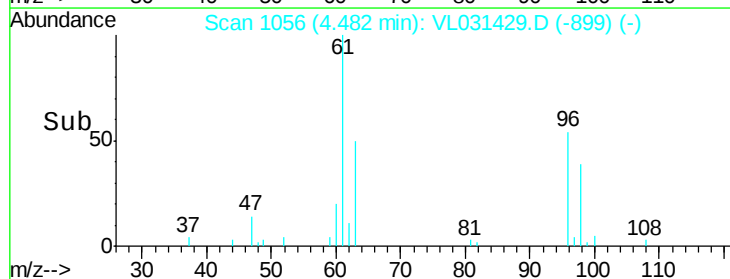
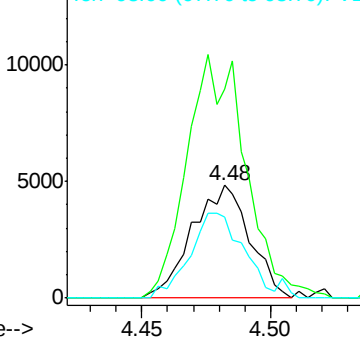
98 72.4 49.6 74.4

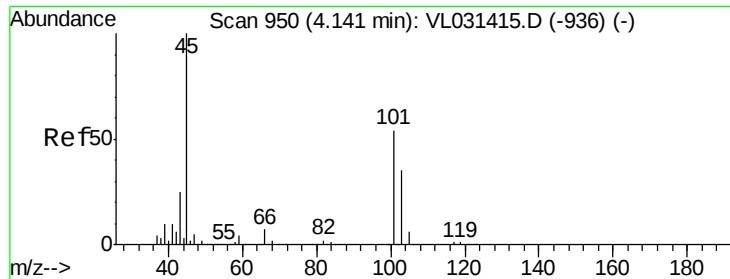


Abundance Ion 96.00 (95.70 to 96.70): VL0

Ion 61.10 (60.80 to 61.80): VL0

Ion 98.00 (97.70 to 98.70): VL0





#19

Isopropyl Alcohol

Concen: 0.10 ppbv

RT: 4.17 min Scan# 960

Delta R.T. 0.03 min

Lab File: VL031429.D

Acq: 22 Jan 2018 23:39

Instrument :

MSVOA_L

ClientSampleId :

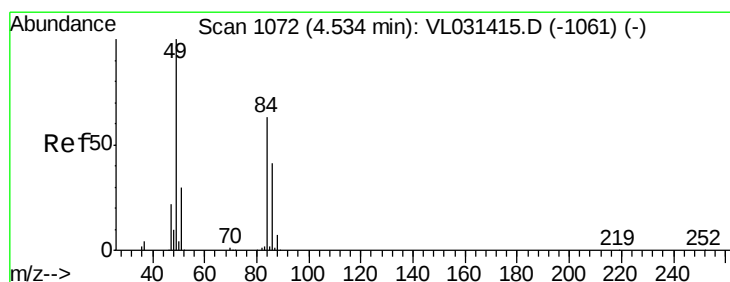
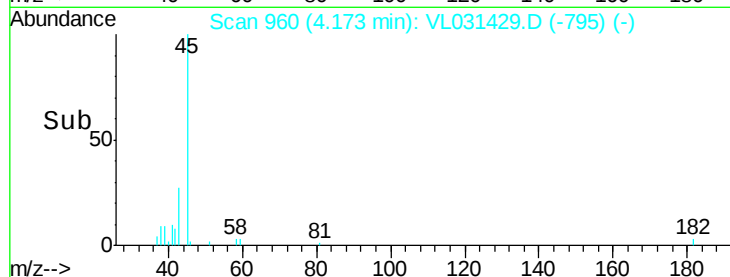
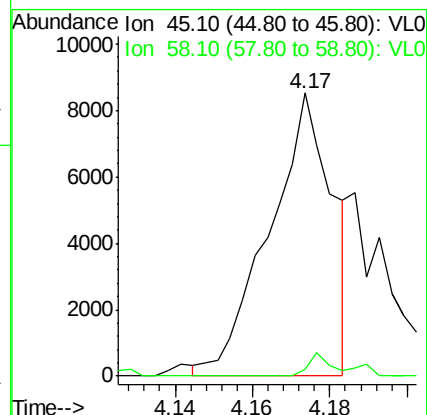
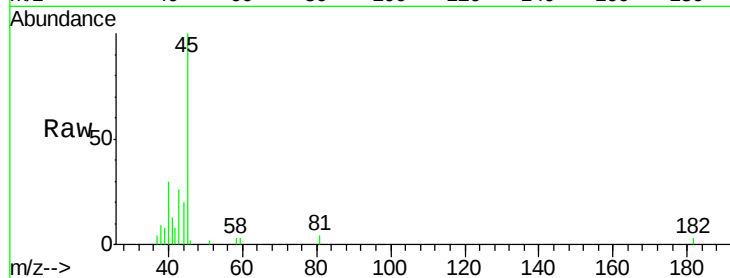
MDL-AIR-4

Tgt Ion: 45 Resp: 9636

Ion Ratio Lower Upper

45 100

58 4.1 1.0 1.4#



#20

Methylene Chloride

Concen: 0.28 ppbv

RT: 4.54 min Scan# 1073

Delta R.T. 0.00 min

Lab File: VL031429.D

Acq: 22 Jan 2018 23:39

Tgt Ion: 84 Resp: 16928

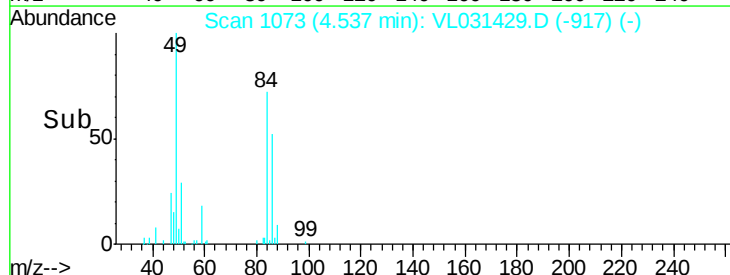
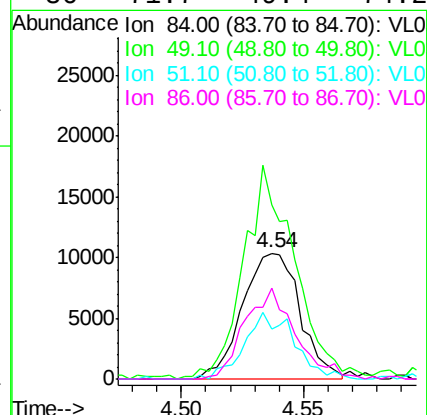
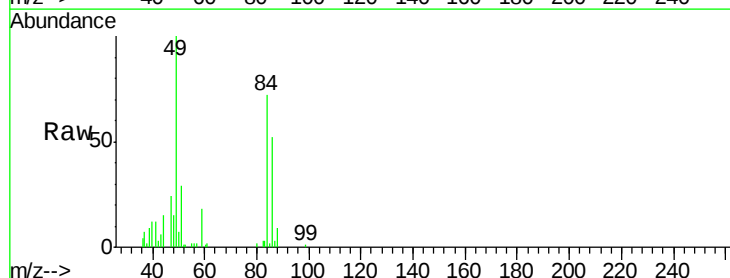
Ion Ratio Lower Upper

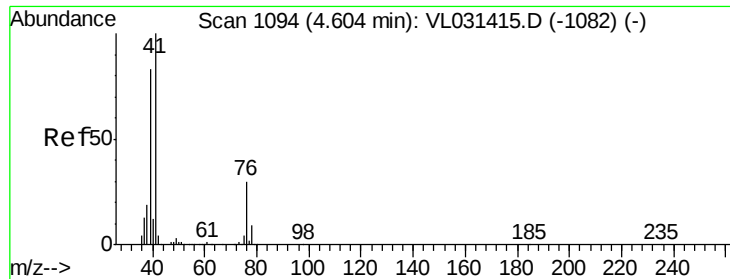
84 100

49 135.9 123.4 185.0

51 39.5 35.6 53.4

86 71.7 49.4 74.2

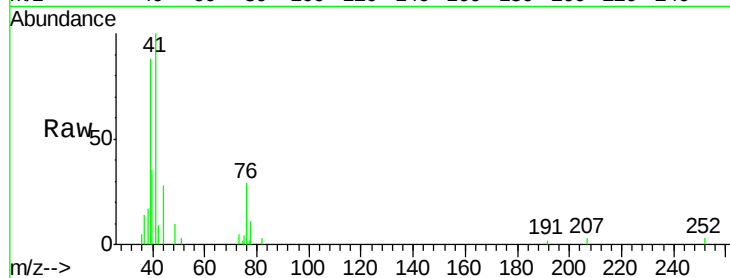




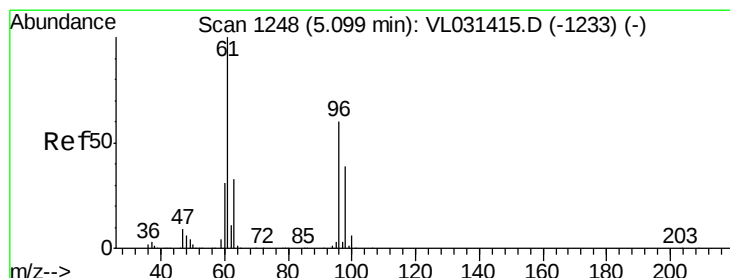
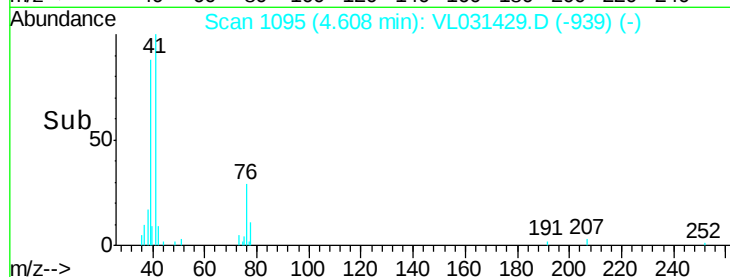
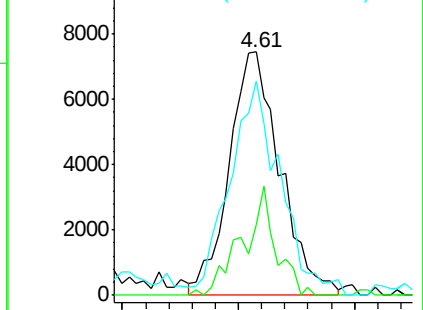
#21
 Allyl Chloride
 Concen: 0.12 ppbv
 RT: 4.61 min Scan# 1095
 Delta R.T. 0.00 min
 Lab File: VL031429.D
 Acq: 22 Jan 2018 23:39

Instrument :
 MSVOA_L
 ClientSampleID :
 MDL-AIR-4

Tgt Ion: 41 Resp: 11348
 Ion Ratio Lower Upper
 41 100
 76 29.3 24.2 36.2
 39 87.6 69.8 104.8

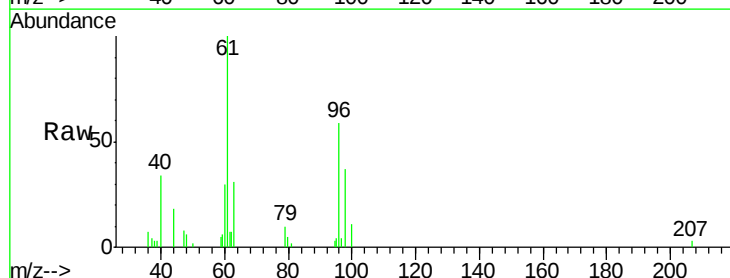


Abundance Ion 41.10 (40.80 to 41.80): VL0
 Ion 76.10 (75.80 to 76.80): VL0
 Ion 39.10 (38.80 to 39.80): VL0

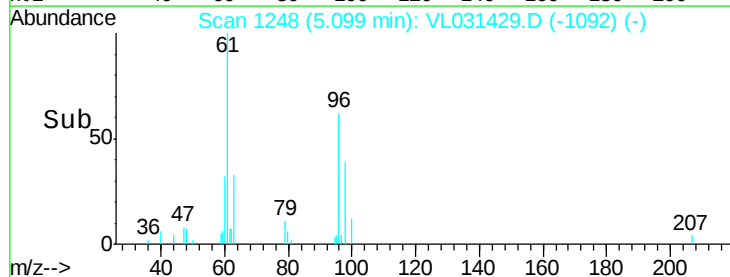
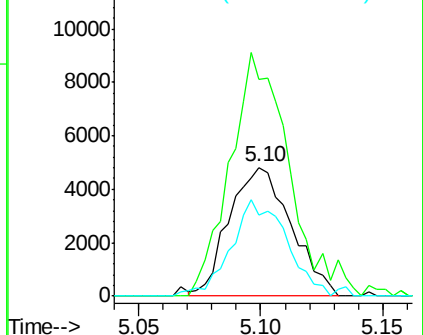


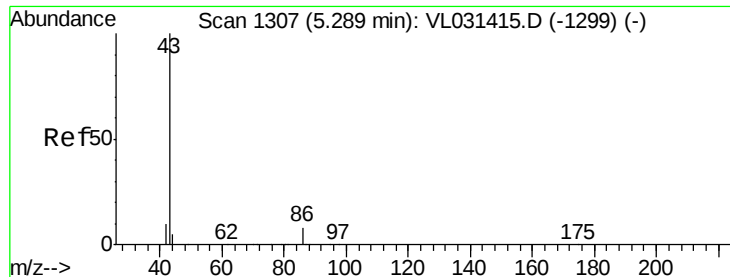
#22
 trans-1,2-Dichloroethene
 Concen: 0.13 ppbv
 RT: 5.10 min Scan# 1248
 Delta R.T. 0.00 min
 Lab File: VL031429.D
 Acq: 22 Jan 2018 23:39

Tgt Ion: 96 Resp: 8493
 Ion Ratio Lower Upper
 96 100
 61 180.3 135.0 202.4
 98 58.8 52.2 78.2



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





#23

Vinyl Acetate

Concen: 0.01 ppbv

RT: 5.28 min Scan# 1303

Delta R.T. -0.02 min

Lab File: VL031429.D

Acq: 22 Jan 2018 23:39

Instrument :

MSVOA_L

ClientSampleId :

MDL-AIR-4

Tgt Ion: 43 Resp: 2275

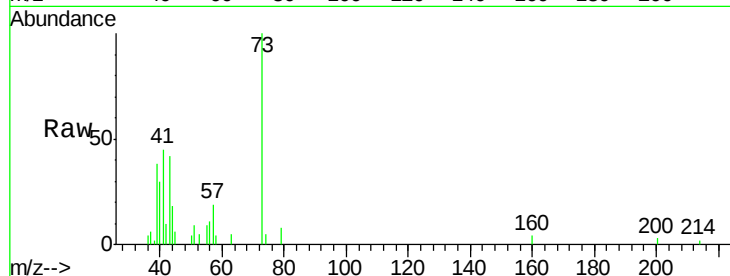
Ion Ratio Lower Upper

43 100

86 0.0 5.6 8.4#

42 20.7 8.6 12.8#

44 0.0 4.2 6.4#

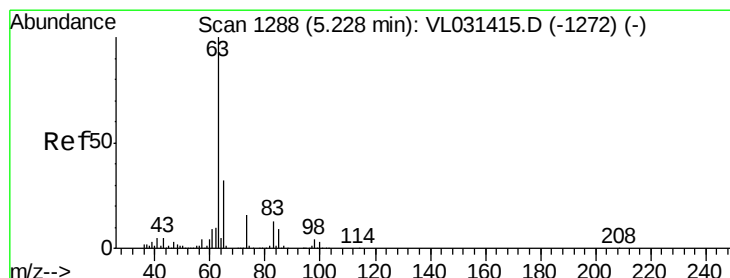
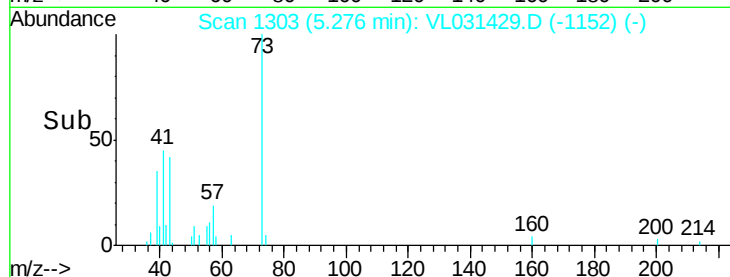
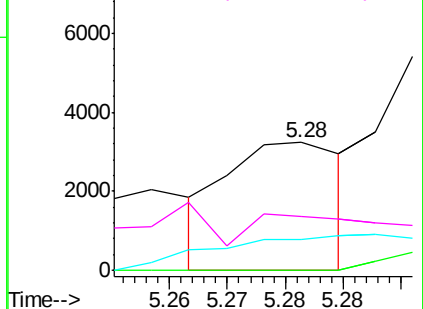


Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 86.10 (85.80 to 86.80): VL0

Ion 42.10 (41.80 to 42.80): VL0

Ion 44.10 (43.80 to 44.80): VL0



#24

1,1-Dichloroethane

Concen: 0.14 ppbv

RT: 5.22 min Scan# 1287

Delta R.T. -0.01 min

Lab File: VL031429.D

Acq: 22 Jan 2018 23:39

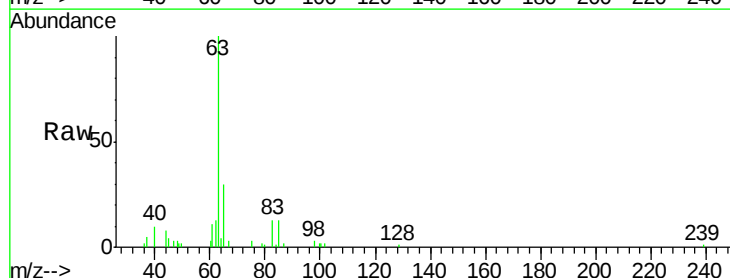
Tgt Ion: 63 Resp: 22400

Ion Ratio Lower Upper

63 100

98 3.2 2.4 7.1

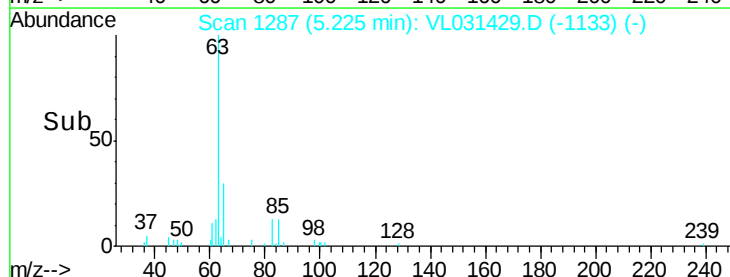
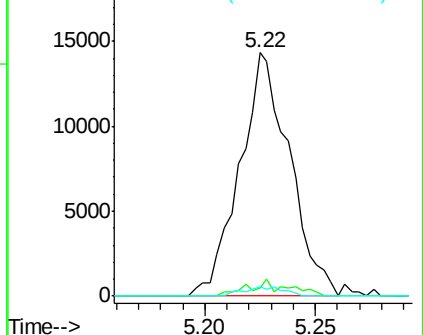
100 3.9 1.3 3.9

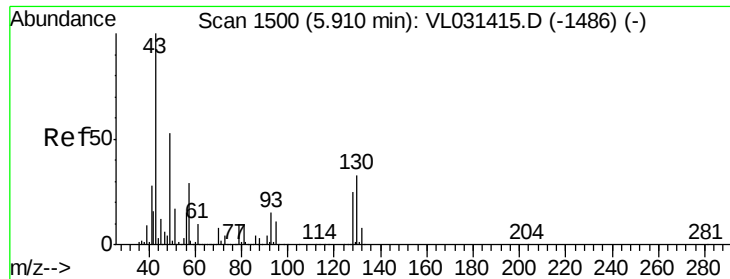


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

Ion 100.00 (99.70 to 100.70): VL0

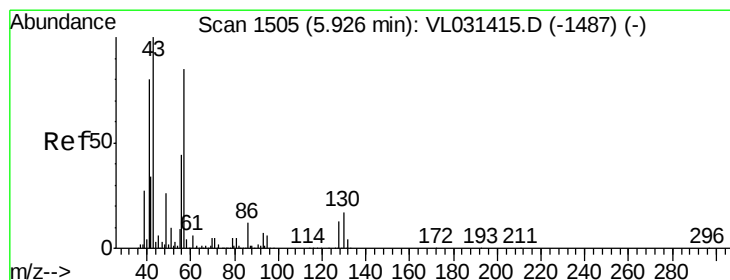
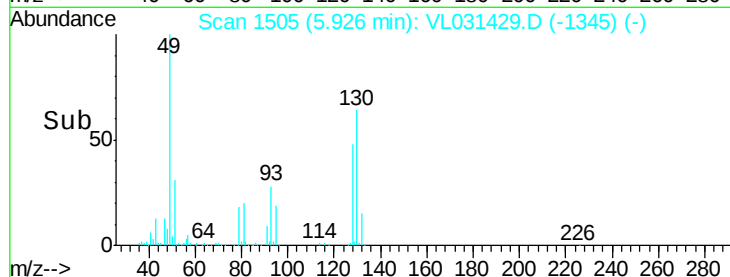
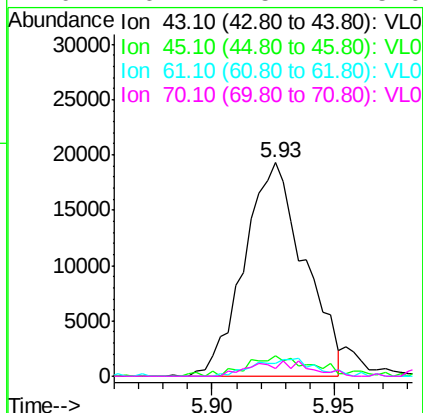
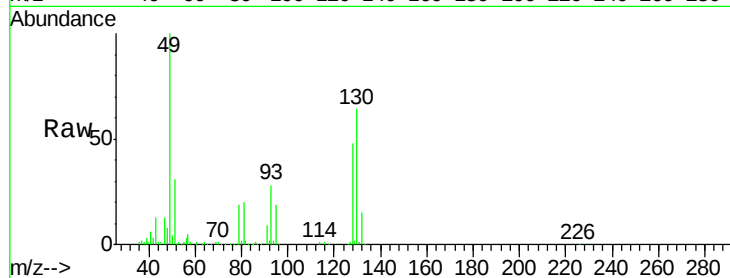




#25
Ethyl Acetate
Concen: 0.12 ppbv
RT: 5.93 min Scan# 1505
Delta R.T. 0.01 min
Lab File: VL031429.D
Acq: 22 Jan 2018 23:39

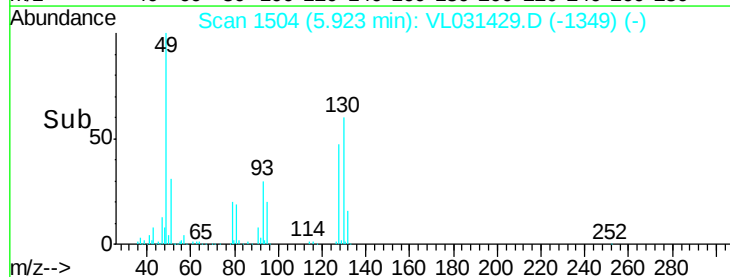
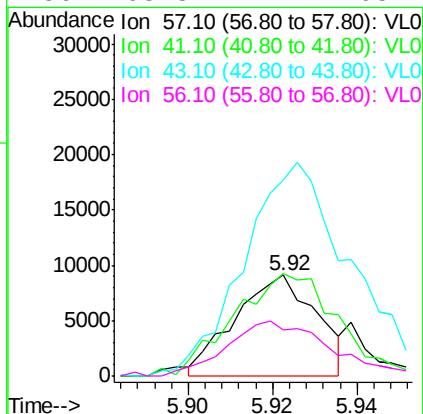
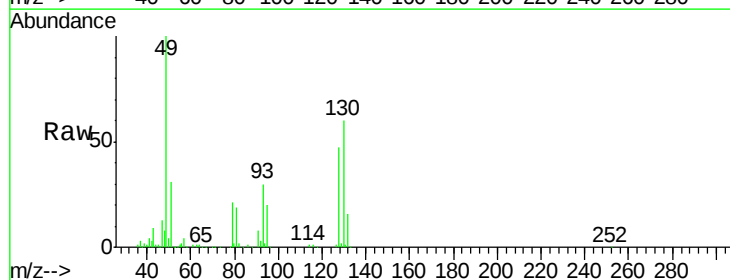
Instrument :
MSVOA_L
ClientSampleId :
MDL-AIR-4

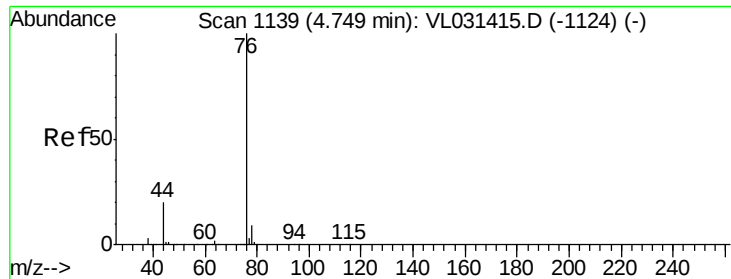
Tgt Ion:	43	Resp:	32953
Ion	Ratio	Lower	Upper
43	100		
45	11.7	7.8	11.6#
61	8.6	7.0	10.6
70	6.7	5.4	8.0



#26
Hexane
Concen: 0.10 ppbv
RT: 5.92 min Scan# 1504
Delta R.T. -0.00 min
Lab File: VL031429.D
Acq: 22 Jan 2018 23:39

Tgt Ion:	57	Resp:	12165
Ion	Ratio	Lower	Upper
57	100		
41	133.9	77.1	115.7#
43	287.5	180.7	271.1#
56	68.8	42.2	63.2#





#27

Carbon Disulfide

Concen: 0.11 ppbv

RT: 4.76 min Scan# 1142

Delta R.T. 0.01 min

Lab File: VL031429.D

Acq: 22 Jan 2018 23:39

Instrument :

MSVOA_L

ClientSampleId :

MDL-AIR-4

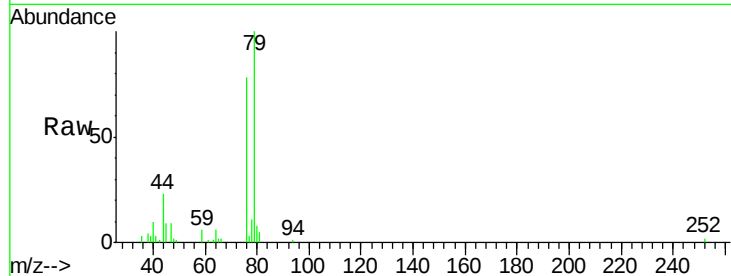
Tgt Ion: 76 Resp: 18502

Ion Ratio Lower Upper

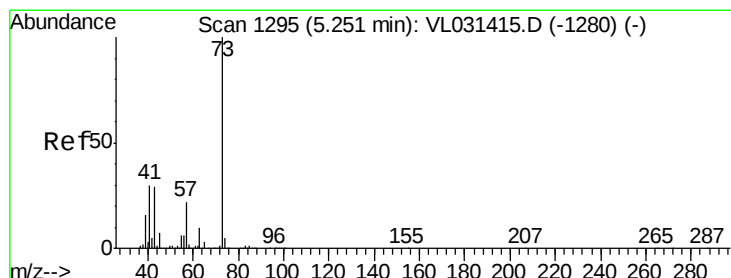
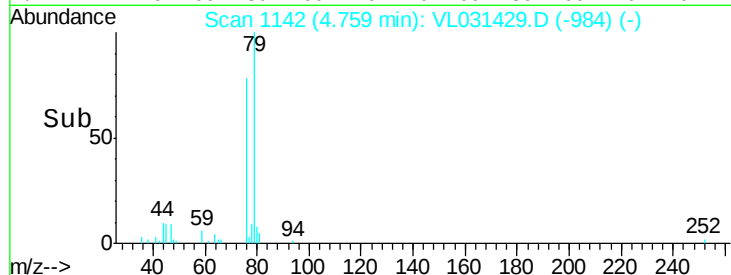
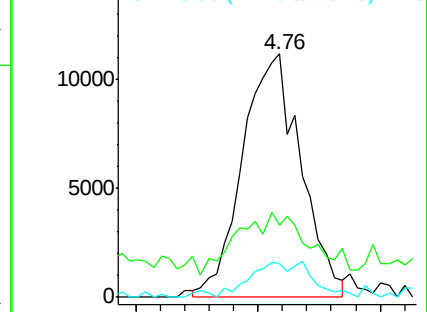
76 100

44 31.1 16.7 25.1#

78 17.4 7.5 11.3#



Abundance Ion 76.00 (75.70 to 76.70): VL0
Ion 44.10 (43.80 to 44.80): VL0
Ion 78.00 (77.70 to 78.70): VL0



#28

Methyl tert-Butyl Ether

Concen: 0.10 ppbv

RT: 5.27 min Scan# 1302

Delta R.T. 0.02 min

Lab File: VL031429.D

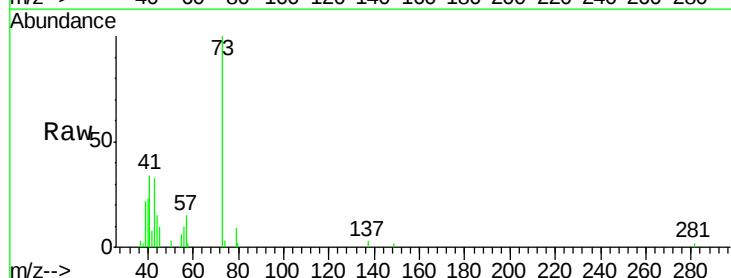
Acq: 22 Jan 2018 23:39

Tgt Ion: 73 Resp: 14709

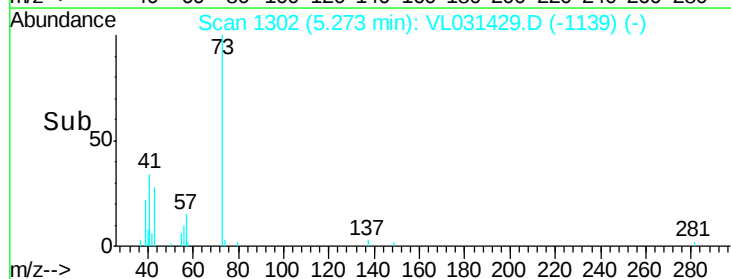
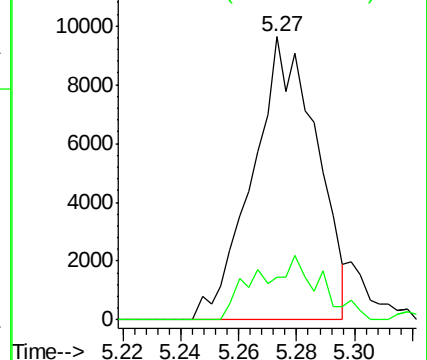
Ion Ratio Lower Upper

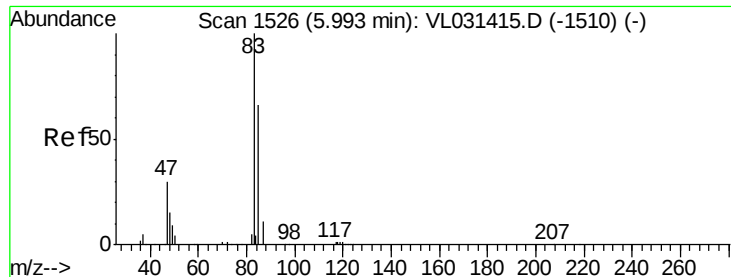
73 100

57 23.3 17.5 26.3



Abundance Ion 73.10 (72.80 to 73.80): VL0
Ion 57.10 (56.80 to 57.80): VL0





#29

Chloroform

Concen: 0.12 ppbv

RT: 5.99 min Scan# 1525

Delta R.T. -0.01 min

Lab File: VL031429.D

Acq: 22 Jan 2018 23:39

Instrument :

MSVOA_L

ClientSampleId :

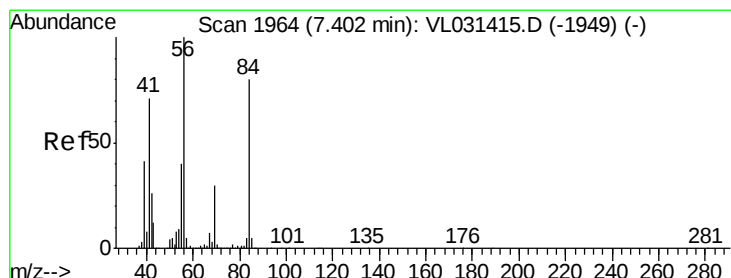
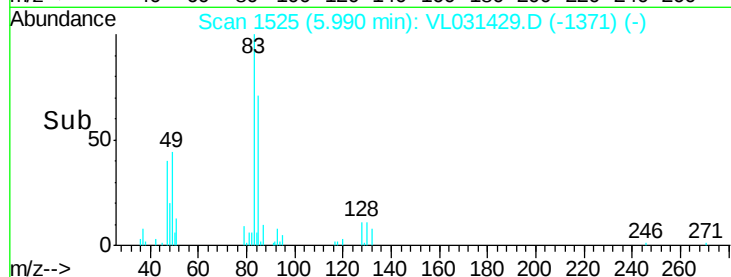
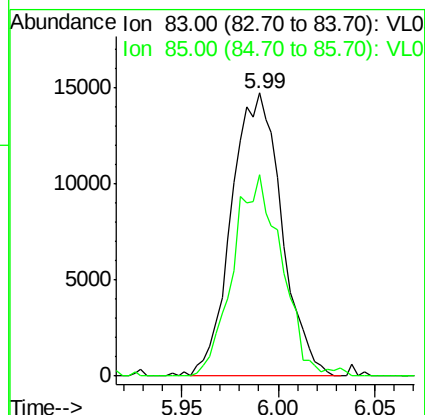
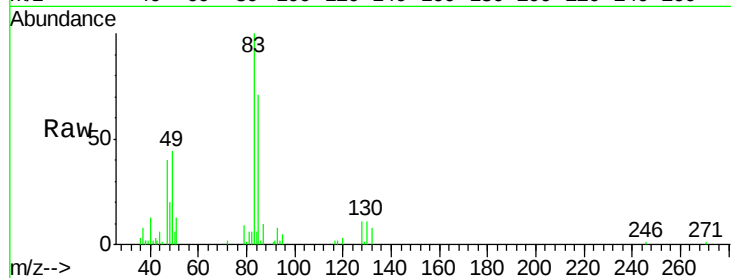
MDL-AIR-4

Tgt Ion: 83 Resp: 26505

Ion Ratio Lower Upper

83 100

85 71.1 51.3 76.9



#30

Cyclohexane

Concen: 0.05 ppbv

RT: 7.40 min Scan# 1963

Delta R.T. -0.01 min

Lab File: VL031429.D

Acq: 22 Jan 2018 23:39

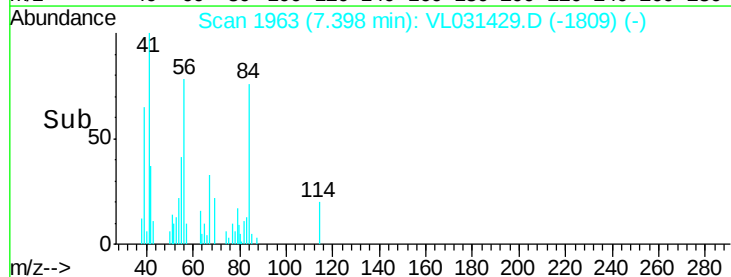
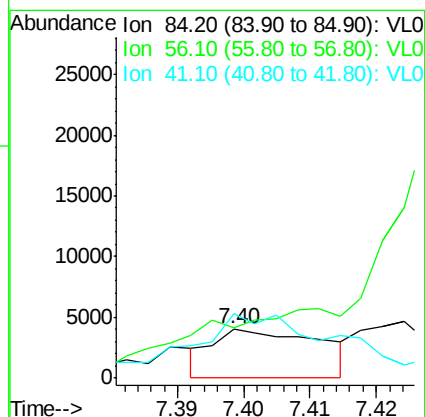
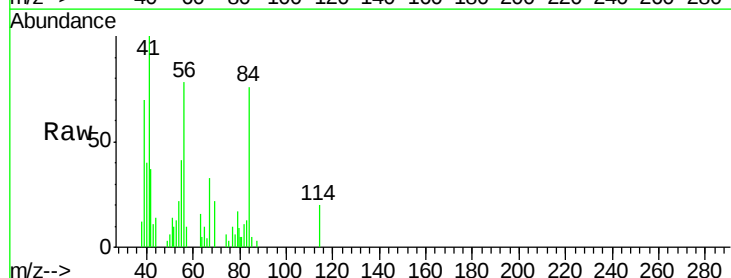
Tgt Ion: 84 Resp: 4550

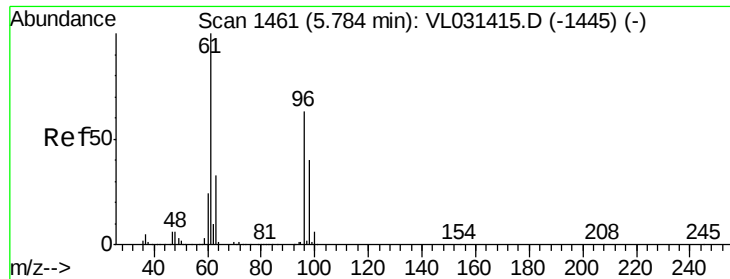
Ion Ratio Lower Upper

84 100

56 0.0 109.0 163.4#

41 213.8 73.3 109.9#





#31

cis-1,2-Dichloroethene

Concen: 0.11 ppbv

RT: 5.78 min Scan# 1461

Delta R.T. -0.00 min

Lab File: VL031429.D

Acq: 22 Jan 2018 23:39

Instrument :

MSVOA_L

ClientSampled :

MDL-AIR-4

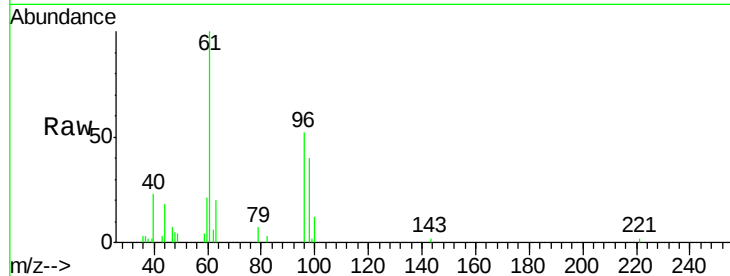
Tgt Ion: 61 Resp: 13274

Ion Ratio Lower Upper

61 100

96 51.8 51.3 76.9

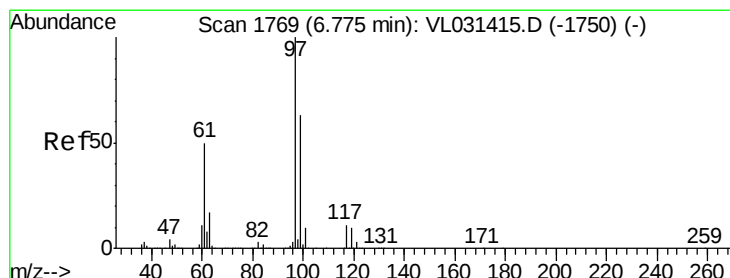
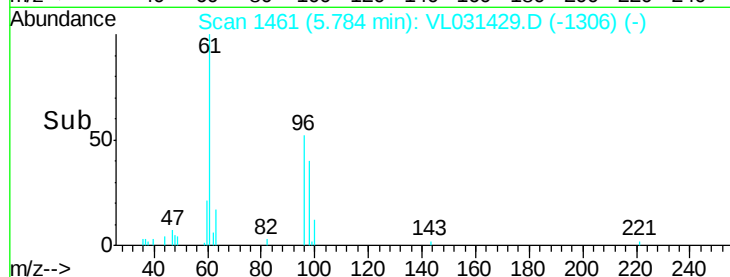
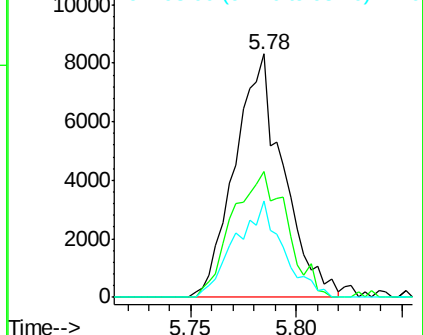
98 39.7 33.6 50.4



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



#32

1,1,1-Trichloroethane

Concen: 0.06 ppbv

RT: 6.77 min Scan# 1766

Delta R.T. -0.01 min

Lab File: VL031429.D

Acq: 22 Jan 2018 23:39

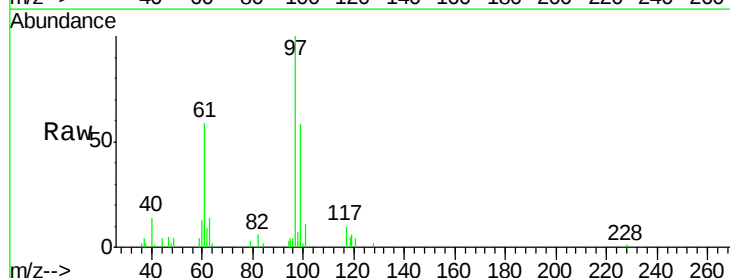
Tgt Ion: 97 Resp: 12872

Ion Ratio Lower Upper

97 100

99 0.0 51.9 77.9#

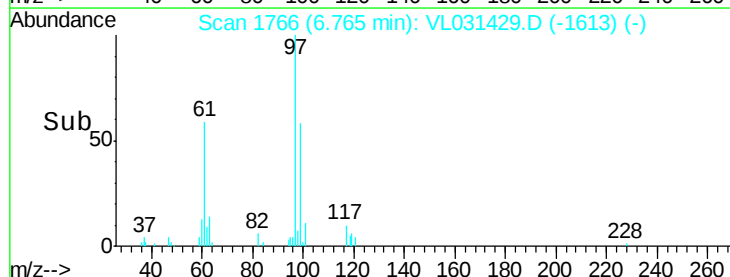
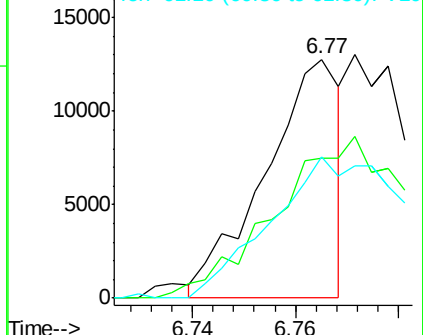
61 111.2 40.6 61.0#

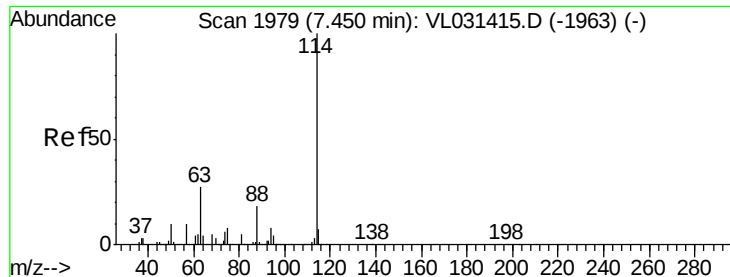


Abundance Ion 97.00 (96.70 to 97.70): VL0

Ion 99.00 (98.70 to 99.70): VL0

Ion 61.10 (60.80 to 61.80): VL0

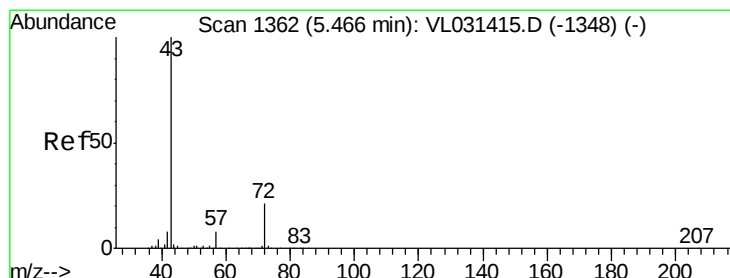
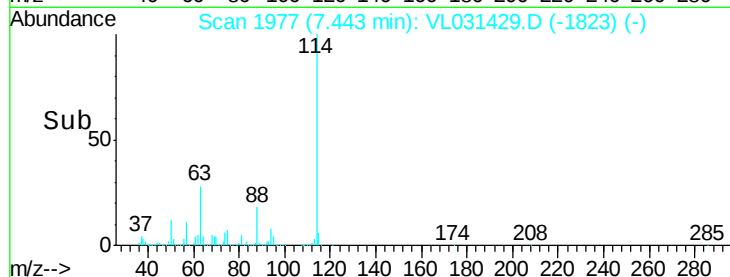
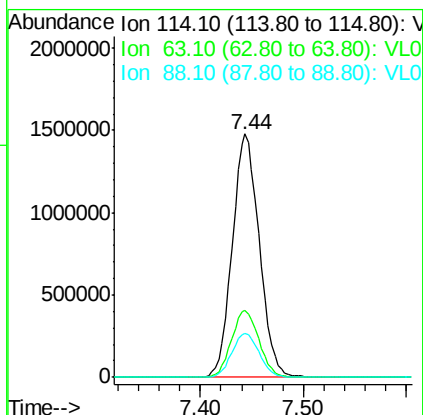
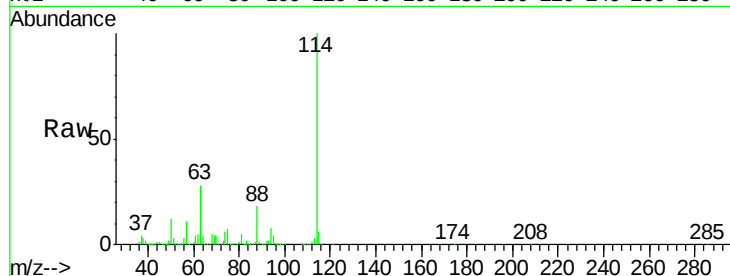




#33
 1,4-Difluorobenzene
 Concen: 10.00 ppbv
 RT: 7.44 min Scan# 1977
 Delta R.T. -0.01 min
 Lab File: VL031429.D
 Acq: 22 Jan 2018 23:39

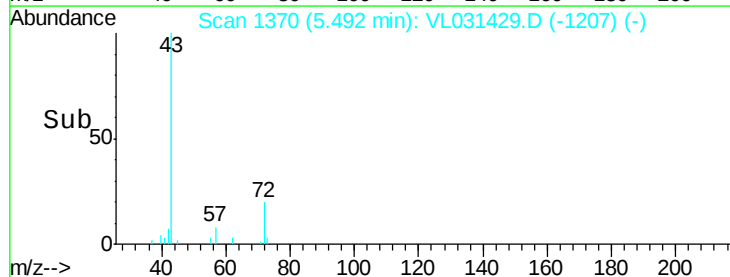
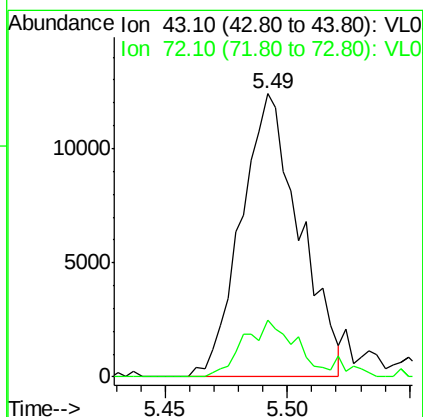
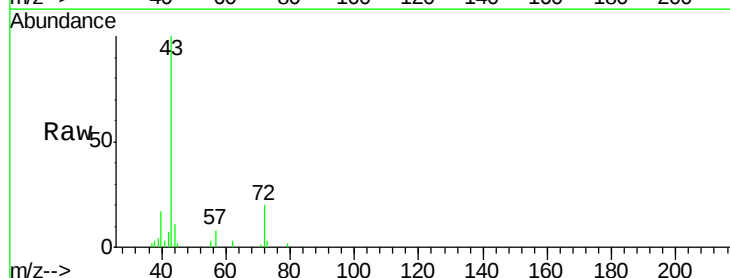
Instrument :
 MSVOA_L
 ClientSampleId :
 MDL-AIR-4

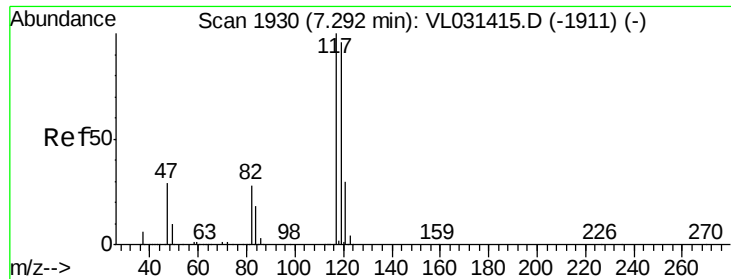
Tgt Ion:114 Resp: 2699585
 Ion Ratio Lower Upper
 114 100
 63 28.1 22.5 33.7
 88 18.5 14.6 22.0



#34
 2-Butanone
 Concen: 0.12 ppbv
 RT: 5.49 min Scan# 1370
 Delta R.T. 0.02 min
 Lab File: VL031429.D
 Acq: 22 Jan 2018 23:39

Tgt Ion: 43 Resp: 20548
 Ion Ratio Lower Upper
 43 100
 72 20.3 16.8 25.2





#35

Carbon Tetrachloride

Concen: 0.13 ppbv

RT: 7.29 min Scan# 1930

Delta R.T. 0.00 min

Lab File: VL031429.D

Acq: 22 Jan 2018 23:39

Instrument :

MSVOA_L

ClientSampleId :

MDL-AIR-4

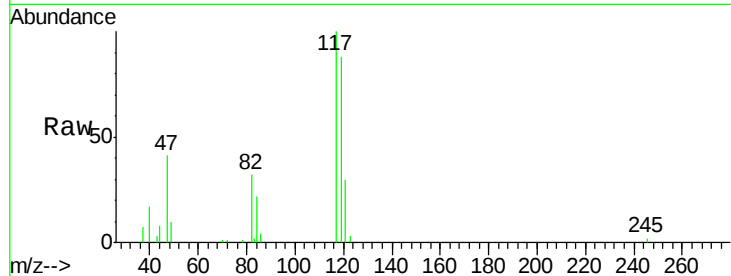
Tgt Ion: 117 Resp: 28821

Ion Ratio Lower Upper

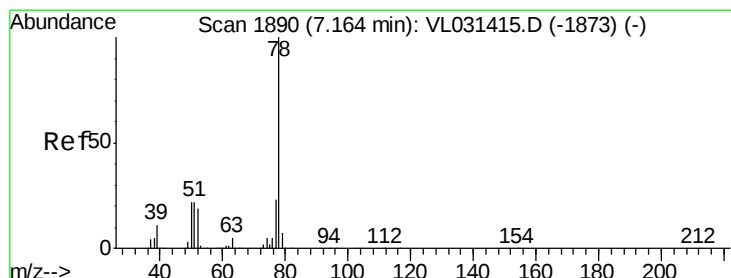
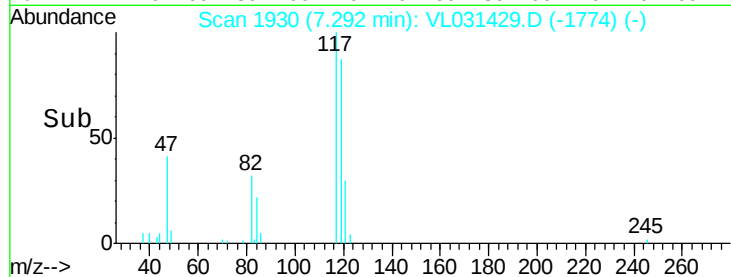
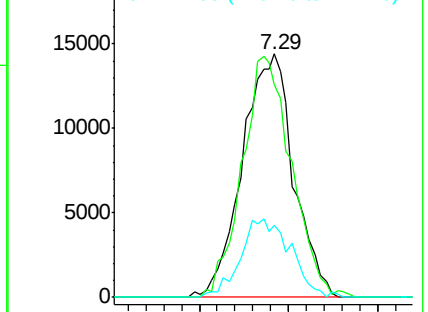
117 100

119 87.7 74.2 111.4

121 29.5 24.2 36.4



Abundance Ion 117.00 (116.70 to 117.70): V
Ion 119.00 (118.70 to 119.70): V
Ion 121.00 (120.70 to 121.70): V



#36

Benzene

Concen: 0.04 ppbv

RT: 7.17 min Scan# 1891

Delta R.T. 0.00 min

Lab File: VL031429.D

Acq: 22 Jan 2018 23:39

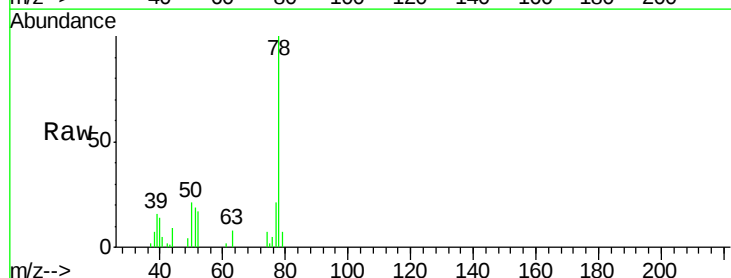
Tgt Ion: 78 Resp: 9783

Ion Ratio Lower Upper

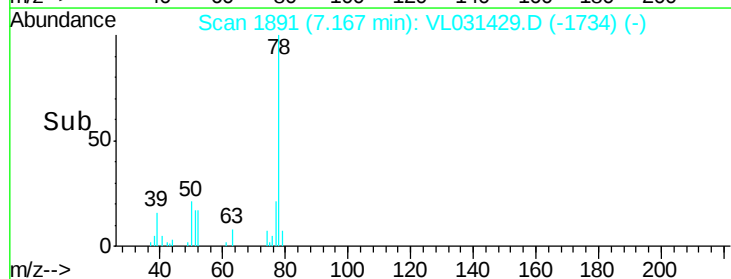
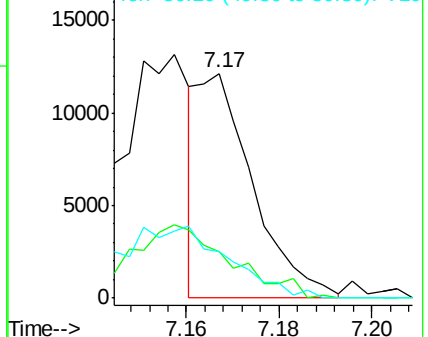
78 100

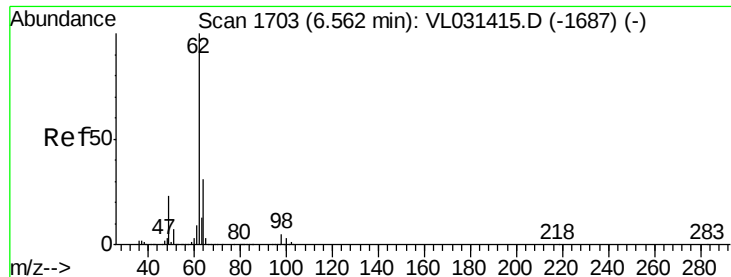
77 21.6 18.7 28.1

50 21.4 18.4 27.6



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





#37

1,2-Dichloroethane

Concen: 0.12 ppbv

RT: 6.56 min Scan# 1703

Delta R.T. -0.00 min

Lab File: VL031429.D

Acq: 22 Jan 2018 23:39

Instrument :

MSVOA_L

ClientSampleId :

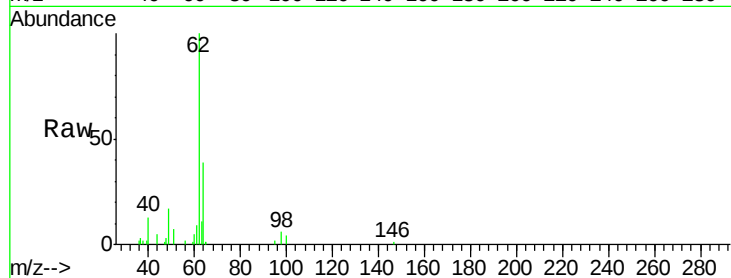
MDL-AIR-4

Tgt Ion: 62 Resp: 23232

Ion Ratio Lower Upper

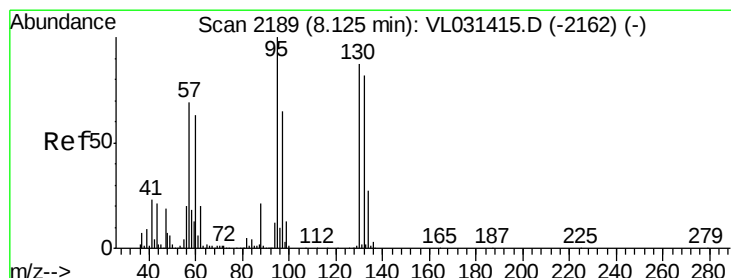
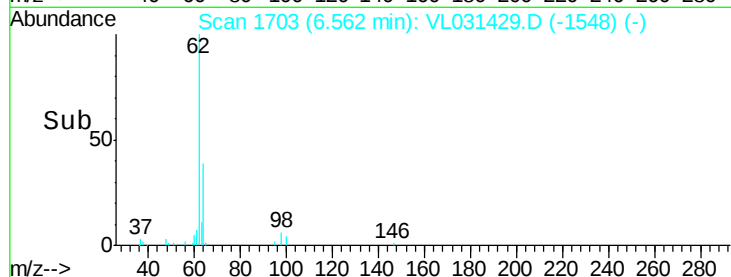
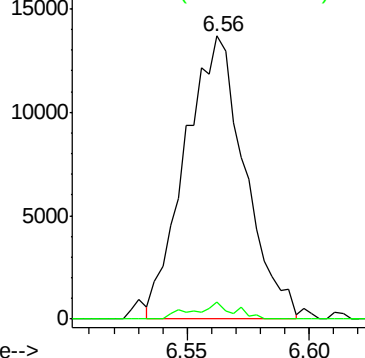
62 100

98 3.9 4.1 6.1#



Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 98.00 (97.70 to 98.70): VL0



#38

Trichloroethene

Concen: 0.11 ppbv

RT: 8.12 min Scan# 2187

Delta R.T. -0.01 min

Lab File: VL031429.D

Acq: 22 Jan 2018 23:39

Tgt Ion: 130 Resp: 10187

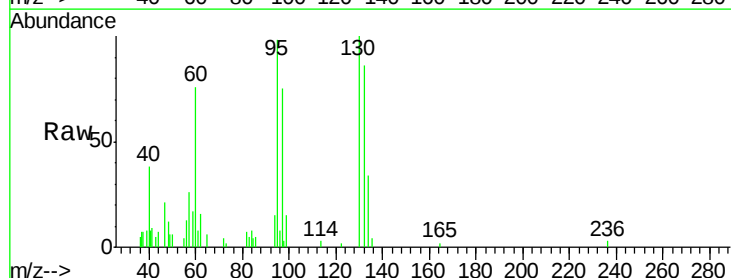
Ion Ratio Lower Upper

130 100

95 77.7 92.9 139.3#

132 86.5 74.9 112.3

97 65.0 60.2 90.4

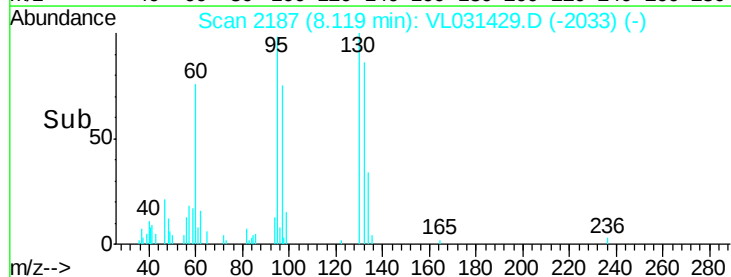
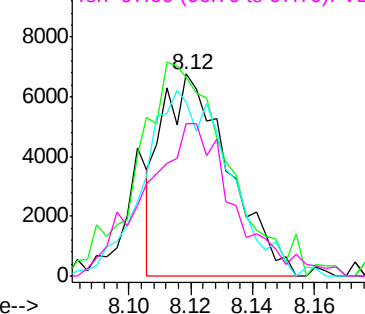


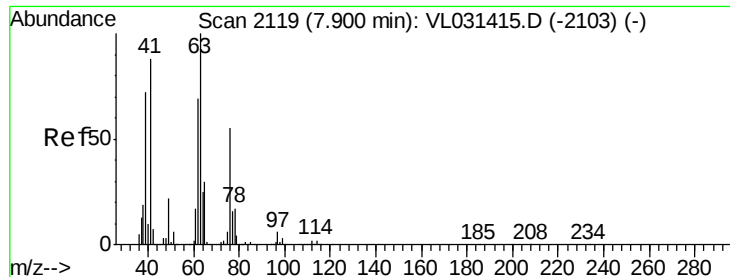
Abundance Ion 130.00 (129.70 to 130.70): V

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

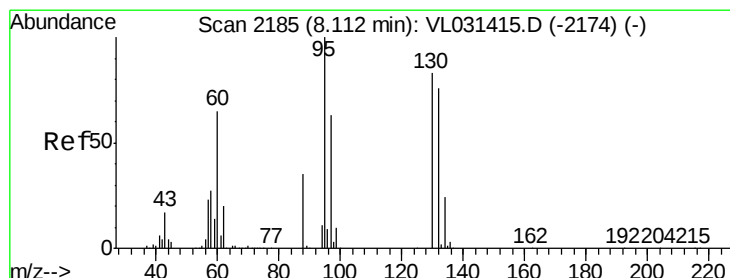
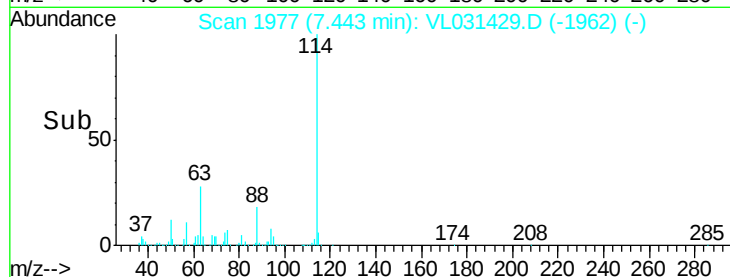
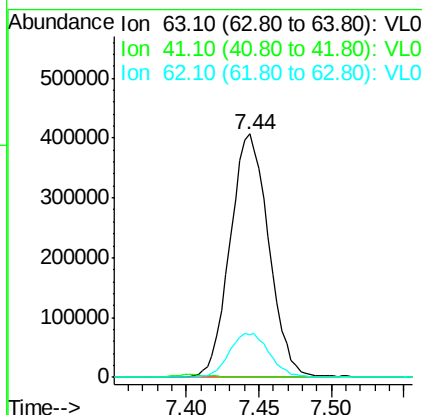
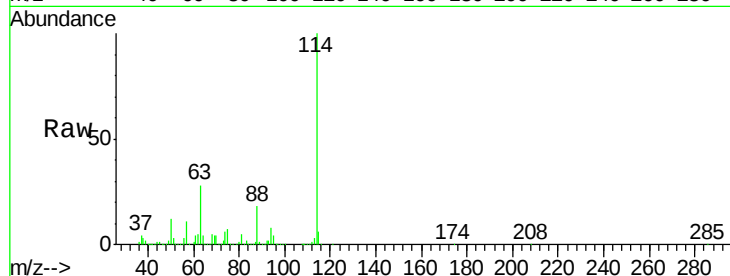




#39
 1,2-Dichloropropane
 Concen: 8.31 ppbv
 RT: 7.44 min Scan# 1977
 Delta R.T. -0.45 min
 Lab File: VL031429.D
 Acq: 22 Jan 2018 23:39

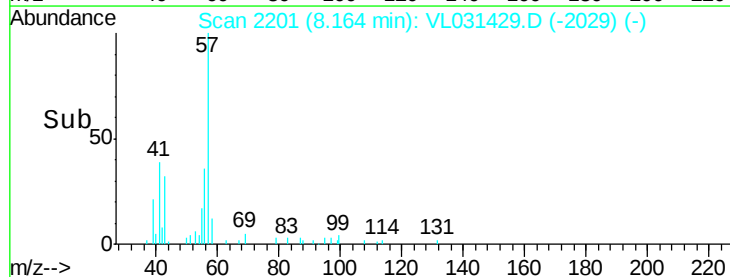
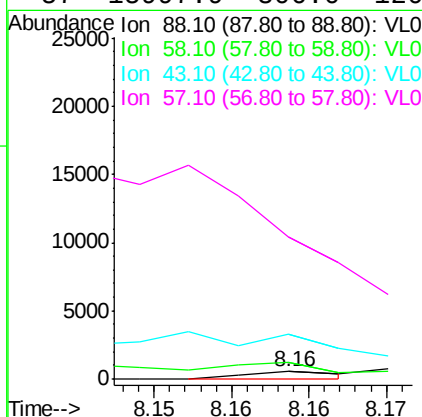
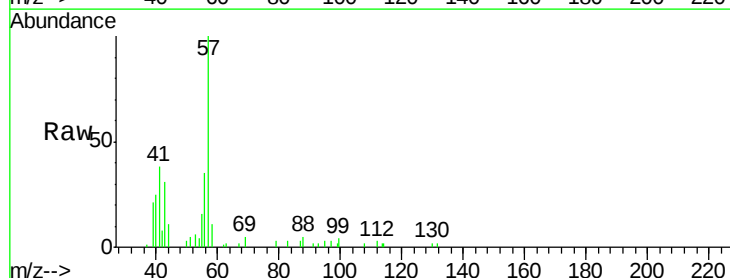
Instrument :
 MSVOA_L
 ClientSampleId :
 MDL-AIR-4

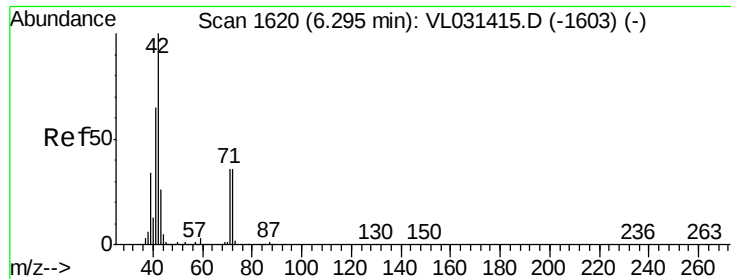
Tgt Ion: 63 Resp: 748726
 Ion Ratio Lower Upper
 63 100
 41 0.1 67.6 101.4#
 62 17.7 51.8 77.6#



#40
 1,4-Dioxane
 Concen: 0.01 ppbv
 RT: 8.16 min Scan# 2201
 Delta R.T. 0.05 min
 Lab File: VL031429.D
 Acq: 22 Jan 2018 23:39

Tgt Ion: 88 Resp: 237
 Ion Ratio Lower Upper
 88 100
 58 1106.3 98.2 147.2#
 43 4151.5 197.3 295.9#
 57 15997.9 806.0 1209.0#

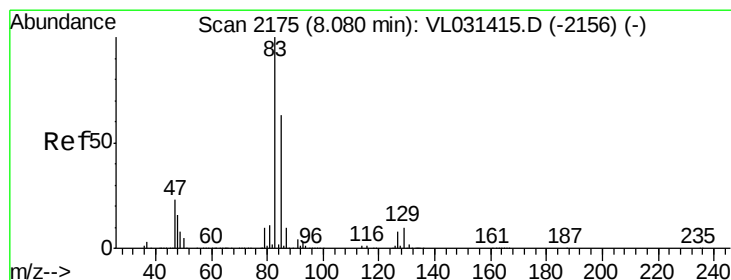
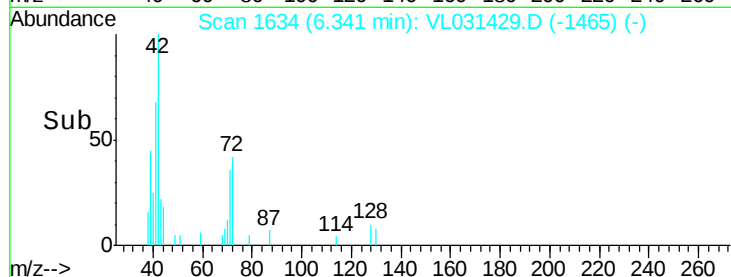
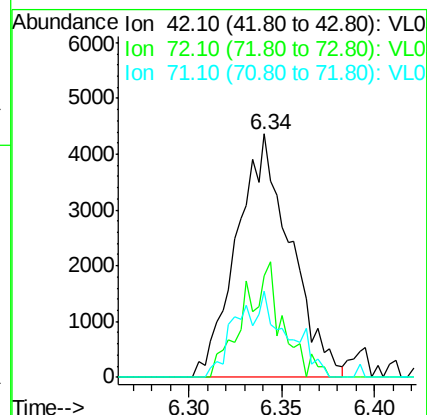
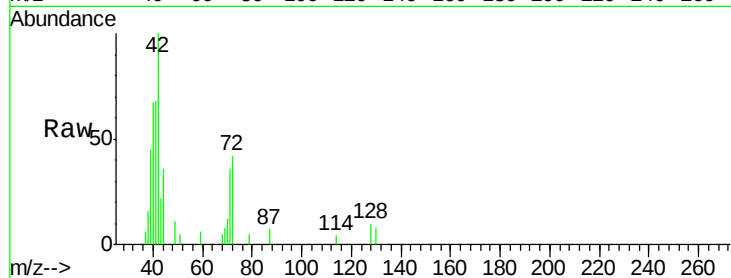




#41
Tetrahydrofuran
Concen: 0.09 ppbv
RT: 6.34 min Scan# 1634
Delta R.T. 0.04 min
Lab File: VL031429.D
Acq: 22 Jan 2018 23:39

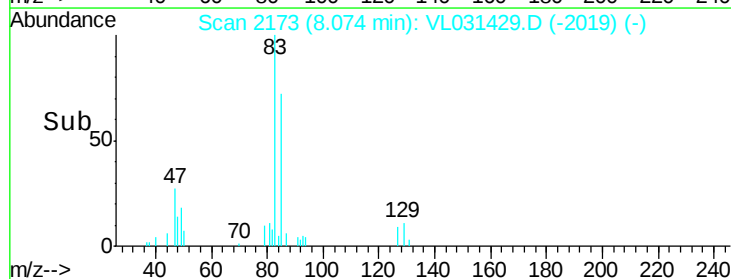
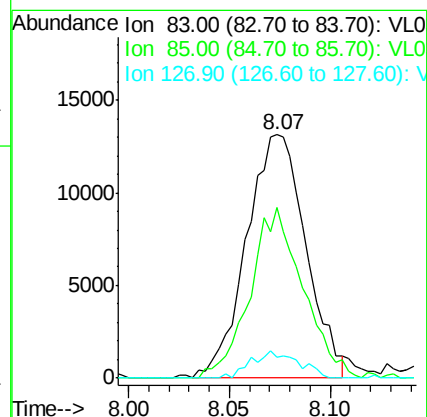
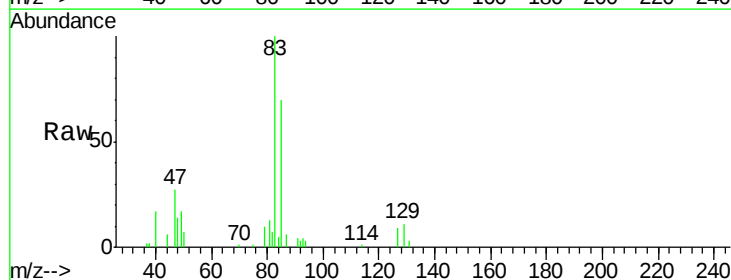
Instrument :
MSVOA_L
ClientSampleId :
MDL-AIR-4

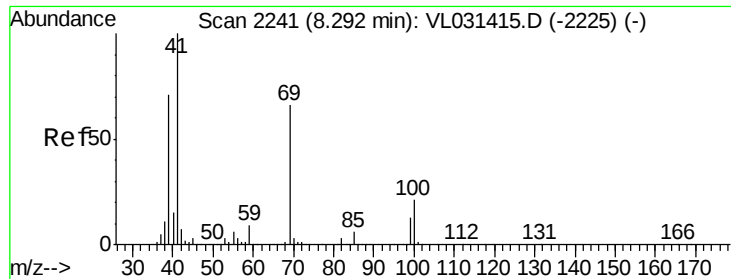
Tgt Ion: 42 Resp: 8799
Ion Ratio Lower Upper
42 100
72 34.0 30.4 45.6
71 32.7 29.2 43.8



#42
Bromodichloromethane
Concen: 0.12 ppbv
RT: 8.07 min Scan# 2173
Delta R.T. -0.01 min
Lab File: VL031429.D
Acq: 22 Jan 2018 23:39

Tgt Ion: 83 Resp: 26927
Ion Ratio Lower Upper
83 100
85 70.1 52.1 78.1
127 8.8 6.6 10.0





#43

Methyl Methacrylate

Concen: 0.09 ppbv

RT: 8.31 min Scan# 2245

Delta R.T. 0.01 min

Lab File: VL031429.D

Acq: 22 Jan 2018 23:39

Instrument :

MSVOA_L

ClientSampleId :

MDL-AIR-4

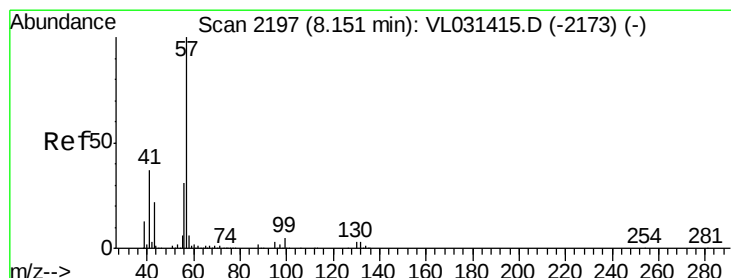
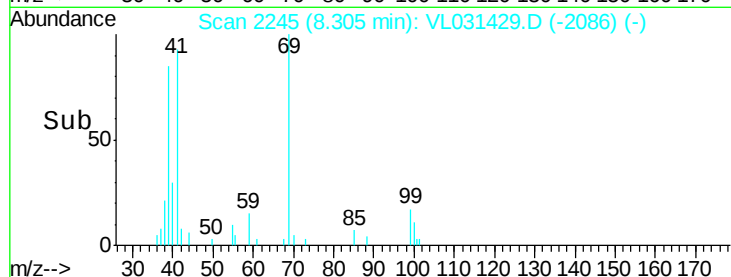
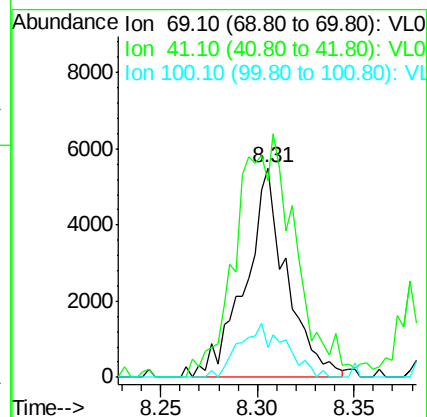
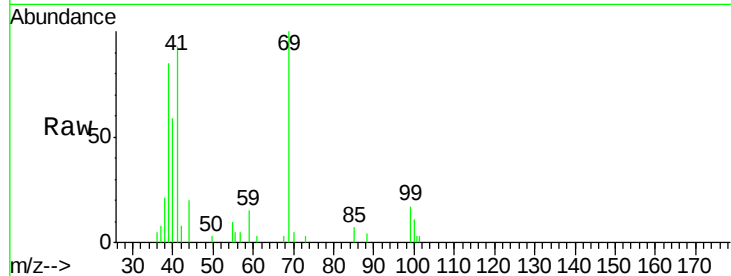
Tgt Ion: 69 Resp: 8179

Ion Ratio Lower Upper

69 100

41 163.6 127.0 190.6

100 28.4 24.6 37.0



#44

2,2,4-Trimethylpentane

Concen: 0.06 ppbv

RT: 8.15 min Scan# 2196

Delta R.T. -0.01 min

Lab File: VL031429.D

Acq: 22 Jan 2018 23:39

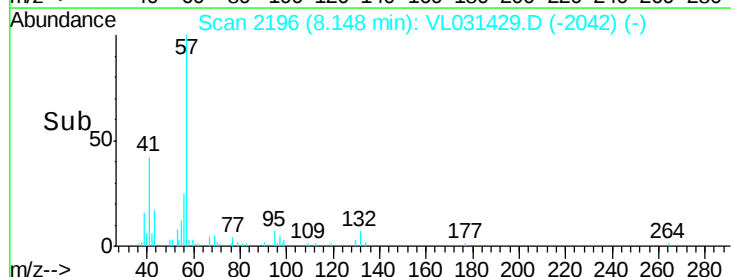
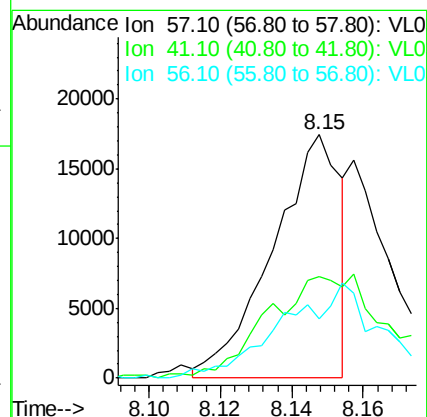
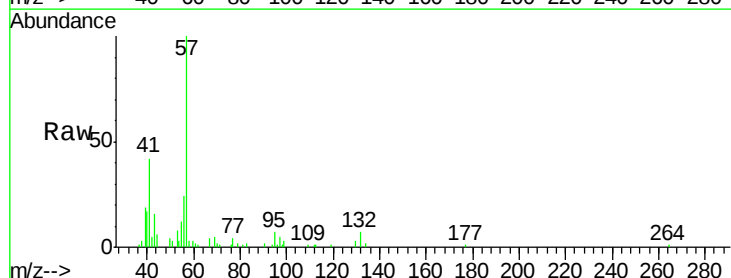
Tgt Ion: 57 Resp: 22909

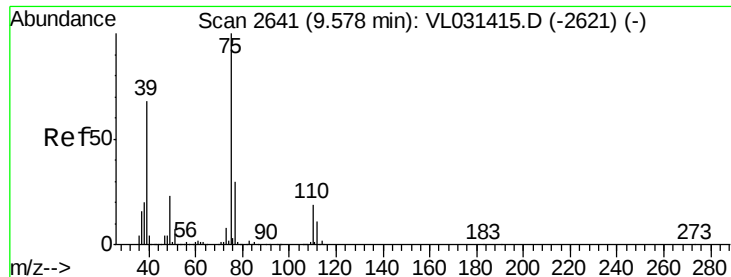
Ion Ratio Lower Upper

57 100

41 0.0 28.8 43.2#

56 0.0 24.6 37.0#





#45

t-1,3-Dichloropropene

Concen: 0.02 ppbv

RT: 9.58 min Scan# 2643

Delta R.T. 0.00 min

Lab File: VL031429.D

Acq: 22 Jan 2018 23:39

Instrument :

MSVOA_L

ClientSampleId :

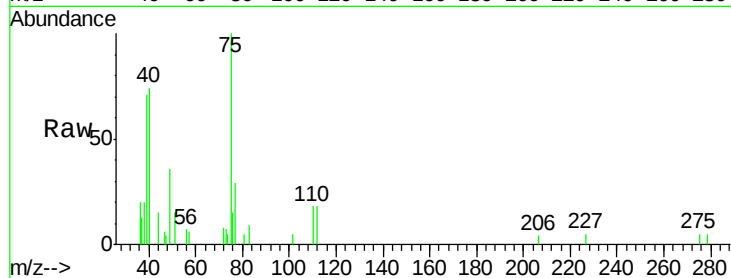
MDL-AIR-4

Tgt Ion: 75 Resp: 2814

Ion Ratio Lower Upper

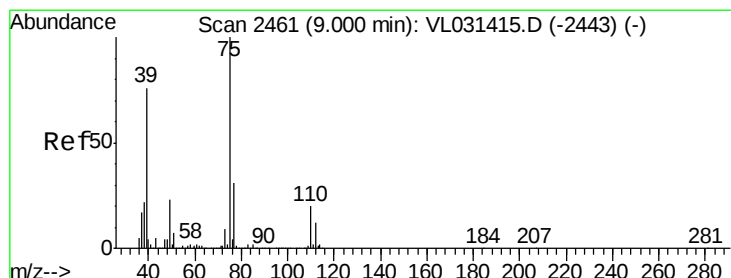
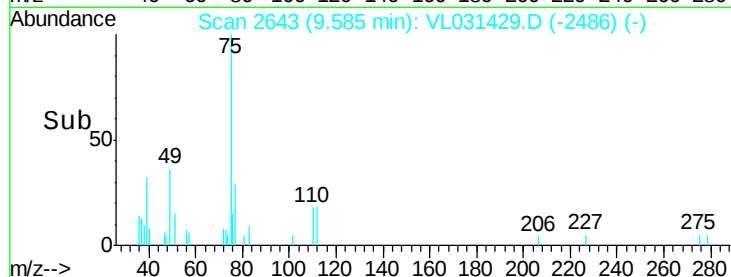
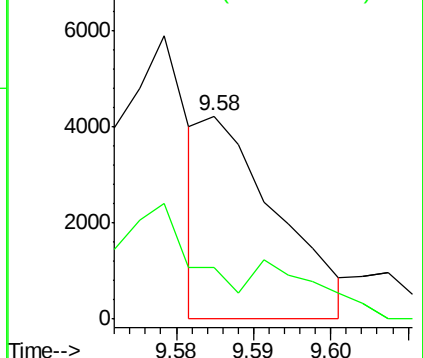
75 100

77 25.6 25.3 37.9



Abundance Ion 75.10 (74.80 to 75.80): VL0

Ion 77.10 (76.80 to 77.80): VL0



#46

cis-1,3-Dichloropropene

Concen: 0.08 ppbv

RT: 8.99 min Scan# 2459

Delta R.T. -0.01 min

Lab File: VL031429.D

Acq: 22 Jan 2018 23:39

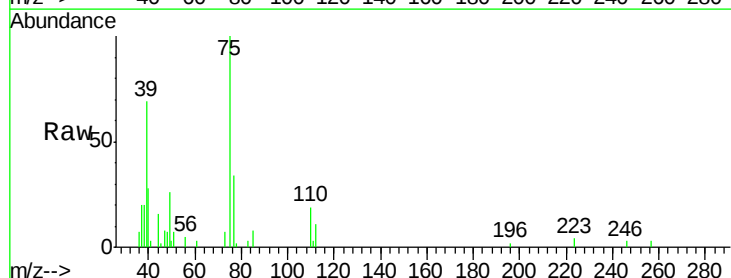
Tgt Ion: 75 Resp: 12530

Ion Ratio Lower Upper

75 100

39 63.9 59.4 89.0

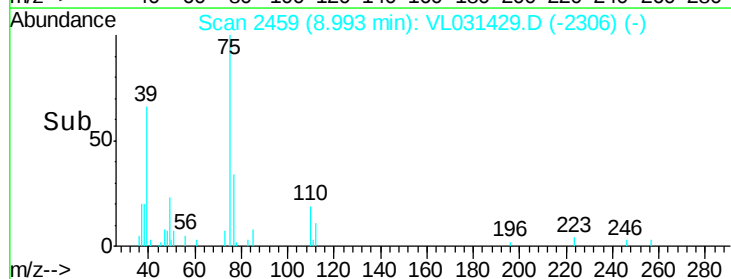
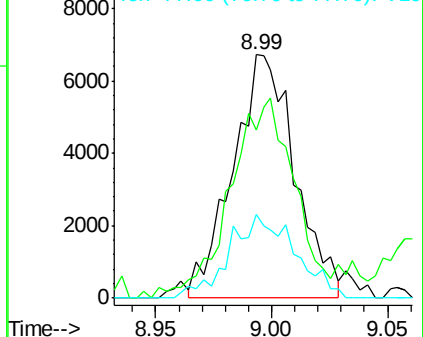
77 33.7 25.0 37.4

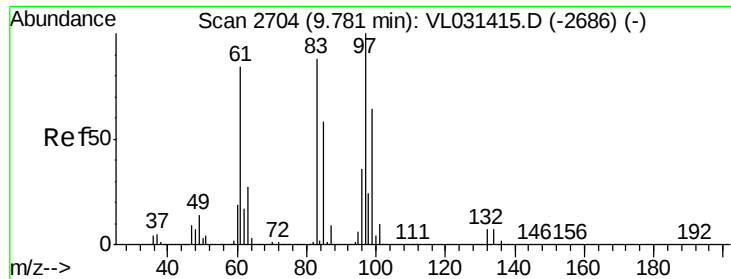


Abundance Ion 75.00 (74.70 to 75.70): VL0

Ion 39.00 (38.70 to 39.70): VL0

Ion 77.00 (76.70 to 77.70): VL0

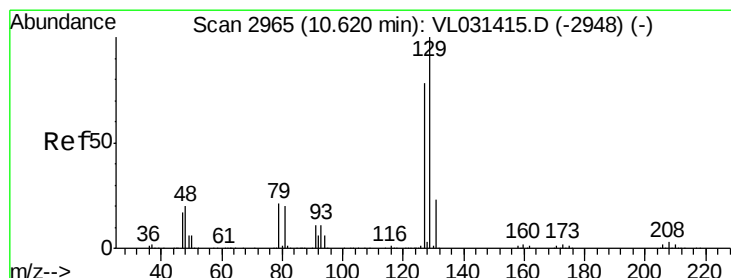
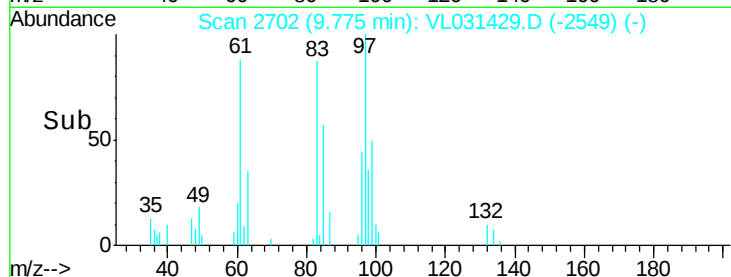
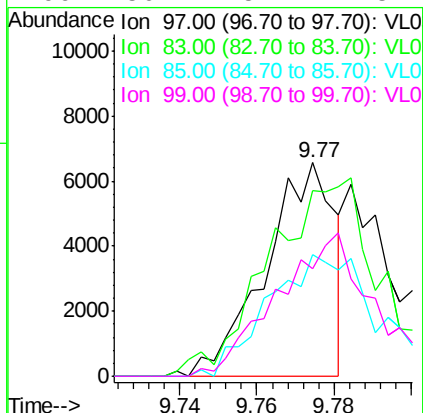
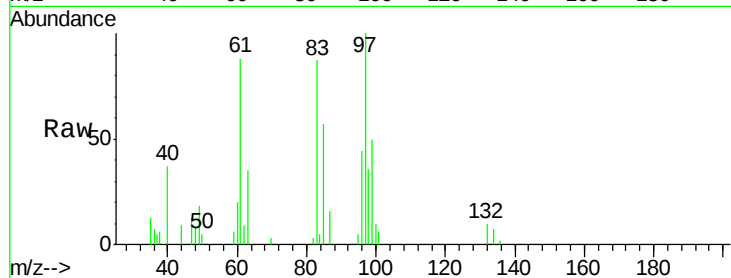




#47
 1,1,2-Trichloroethane
 Concen: 0.08 ppbv
 RT: 9.77 min Scan# 2702
 Delta R.T. -0.01 min
 Lab File: VL031429.D
 Acq: 22 Jan 2018 23:39

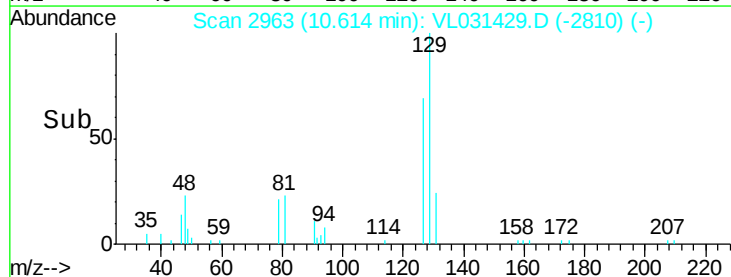
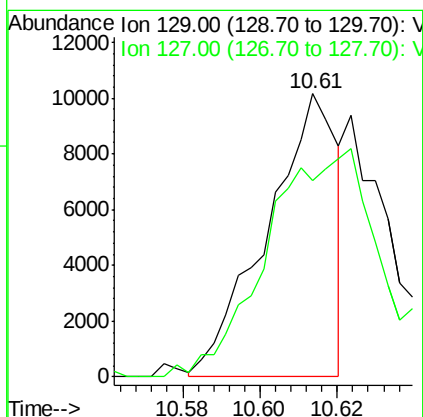
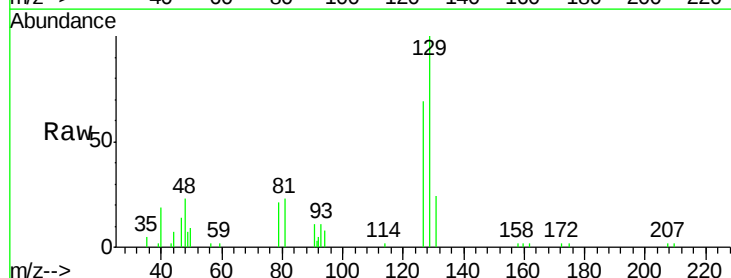
Instrument :
 MSVOA_L
 ClientSampleID :
 MDL-AIR-4

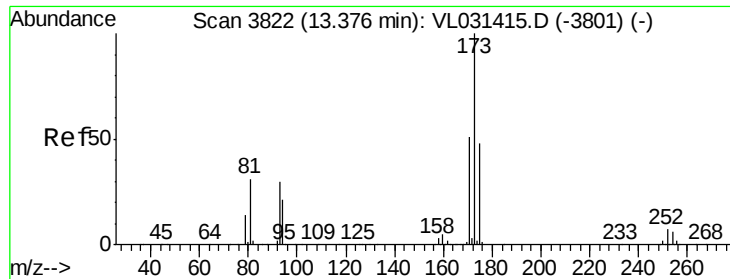
Tgt Ion: 97 Resp: 8099
 Ion Ratio Lower Upper
 97 100
 83 79.3 71.4 107.2
 85 56.9 46.2 69.2
 99 50.4 52.2 78.2#



#48
 Dibromochloromethane
 Concen: 0.07 ppbv
 RT: 10.61 min Scan# 2963
 Delta R.T. -0.01 min
 Lab File: VL031429.D
 Acq: 22 Jan 2018 23:39

Tgt Ion: 129 Resp: 12745
 Ion Ratio Lower Upper
 129 100
 127 0.0 39.4 118.1#





#49

Bromoform

Concen: 0.02 ppbv

RT: 13.37 min Scan# 3819

Delta R.T. -0.01 min

Lab File: VL031429.D

Acq: 22 Jan 2018 23:39

Instrument :

MSVOA_L

ClientSampleId :

MDL-AIR-4

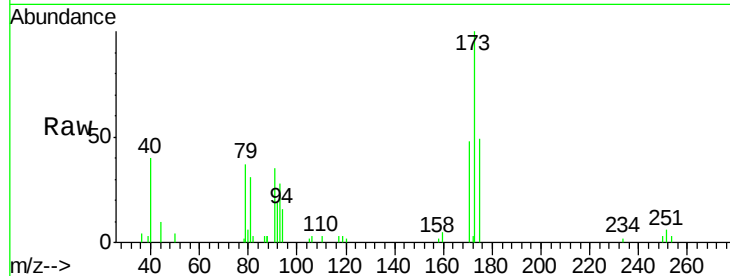
Tgt Ion:173 Resp: 2556

Ion Ratio Lower Upper

173 100

175 302.8 39.0 58.4#

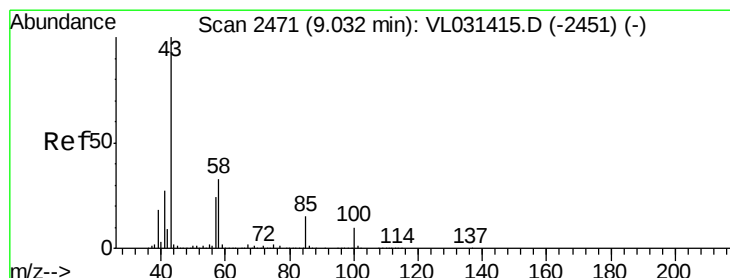
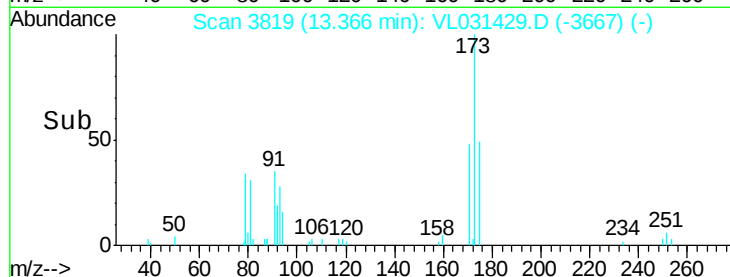
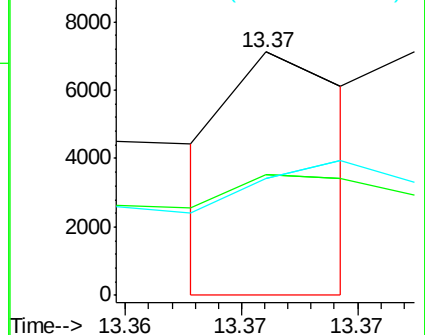
171 0.0 42.0 63.0#



Abundance Ion 172.90 (172.60 to 173.60): V

Ion 174.90 (174.60 to 175.60): V

Ion 170.90 (170.60 to 171.60): V



#50

4-Methyl-2-Pentanone

Concen: 0.00 ppbv

RT: 9.03 min Scan# 2471

Delta R.T. 0.00 min

Lab File: VL031429.D

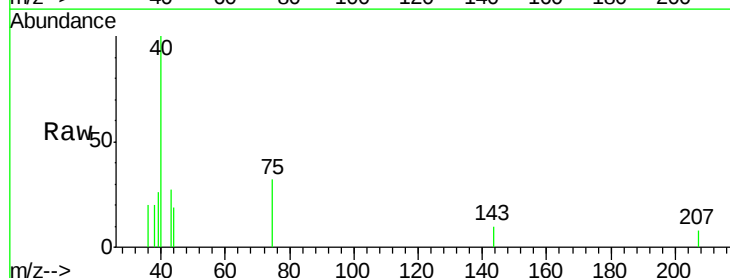
Acq: 22 Jan 2018 23:39

Tgt Ion: 43 Resp: 213

Ion Ratio Lower Upper

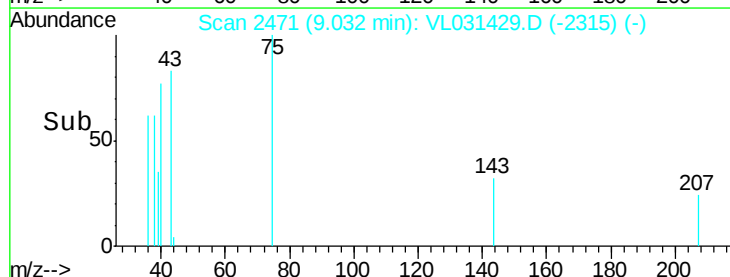
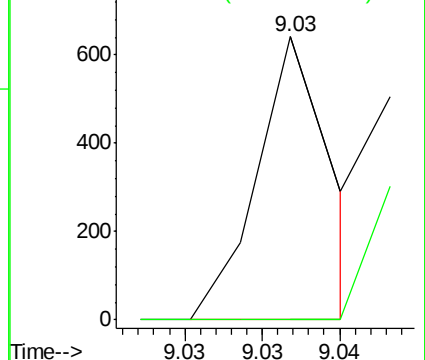
43 100

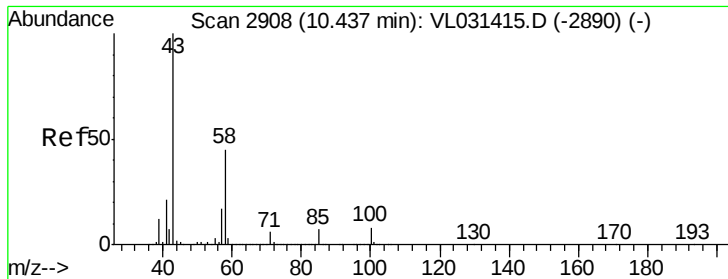
58 0.0 27.1 40.7#



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0





#51

2-Hexanone

Concen: 0.02 ppbv

RT: 10.46 min Scan# 2916

Delta R.T. 0.03 min

Lab File: VL031429.D

Acq: 22 Jan 2018 23:39

Instrument :

MSVOA_L

ClientSampleId :

MDL-AIR-4

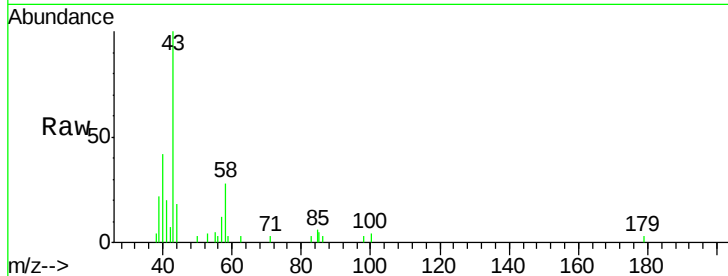
Tgt Ion: 43 Resp: 4916

Ion Ratio Lower Upper

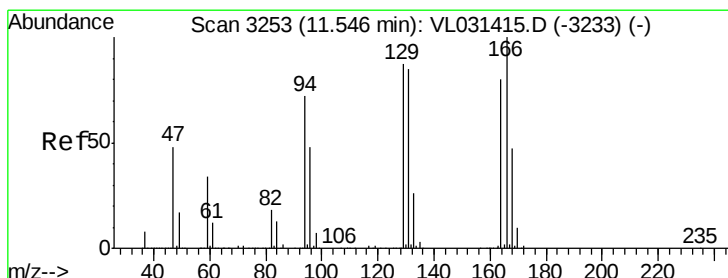
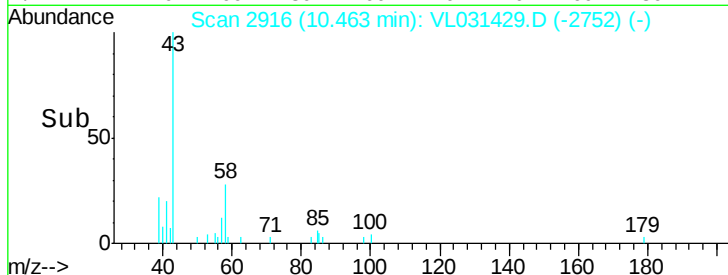
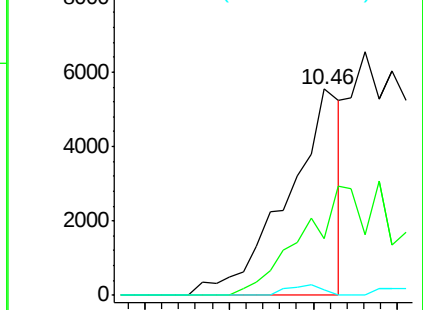
43 100

58 0.0 36.2 54.4#

98 0.0 0.1 0.1#



Abundance Ion 43.10 (42.80 to 43.80): VL0
Ion 58.10 (57.80 to 58.80): VL0
Ion 98.20 (97.90 to 98.90): VL0



#52

Tetrachloroethene

Concen: 0.11 ppbv

RT: 11.54 min Scan# 3252

Delta R.T. -0.00 min

Lab File: VL031429.D

Acq: 22 Jan 2018 23:39

Tgt Ion: 164 Resp: 10016

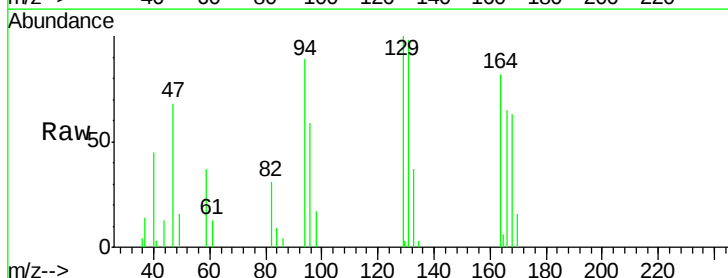
Ion Ratio Lower Upper

164 100

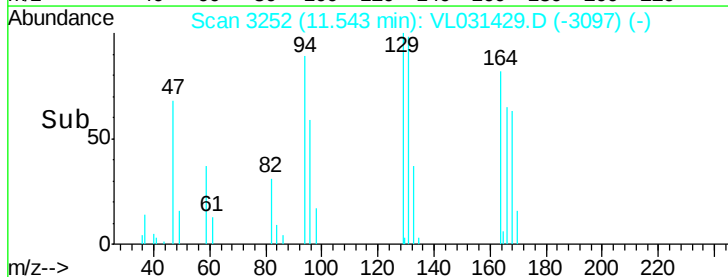
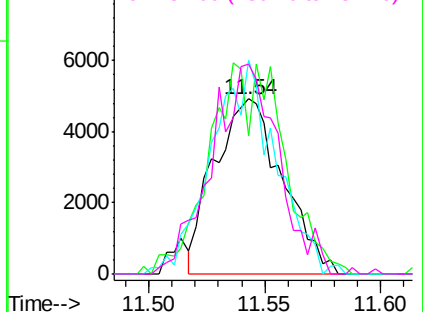
166 73.4 100.2 150.2#

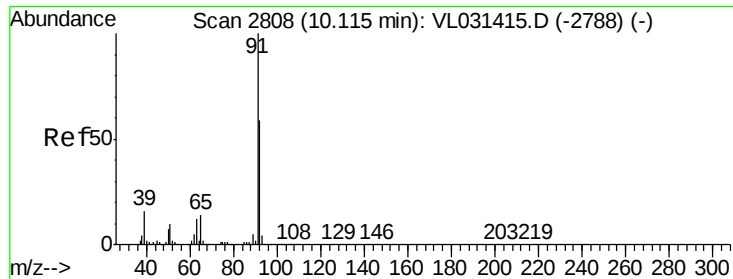
129 119.9 91.4 137.0

131 120.0 87.4 131.0



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





#53

Toluene

Concen: 0.04 ppbv

RT: 10.11 min Scan# 2807

Delta R.T. -0.01 min

Lab File: VL031429.D

Acq: 22 Jan 2018 23:39

Instrument :

MSVOA_L

ClientSampleId :

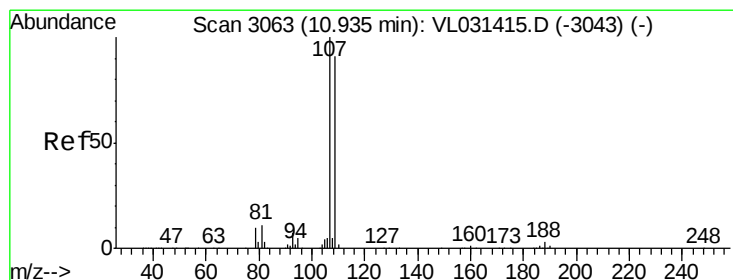
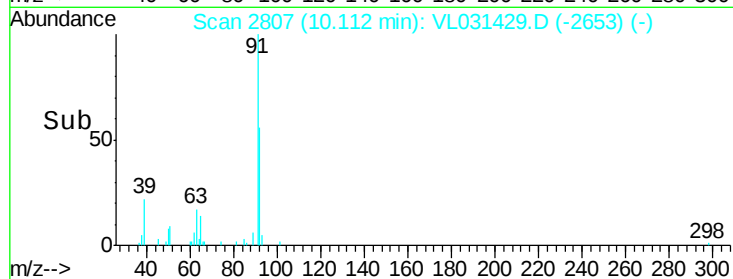
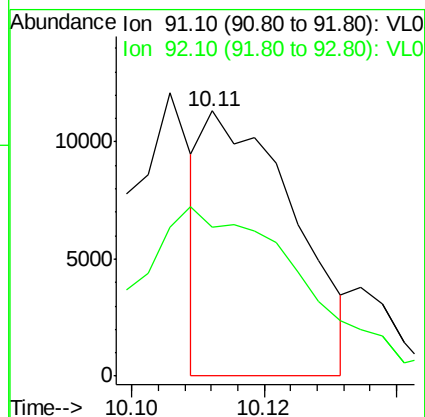
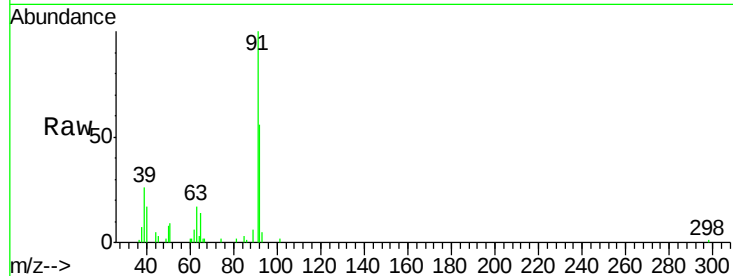
MDL-AIR-4

Tgt Ion: 91 Resp: 10688

Ion Ratio Lower Upper

91 100

92 134.6 47.8 71.6#



#54

1,2-Dibromoethane

Concen: 0.10 ppbv

RT: 10.93 min Scan# 3061

Delta R.T. -0.00 min

Lab File: VL031429.D

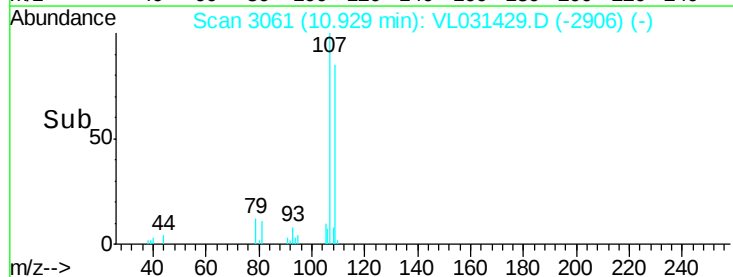
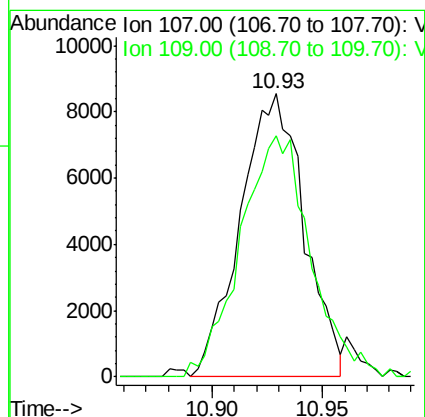
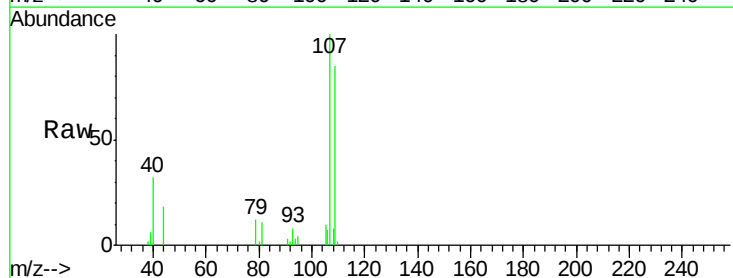
Acq: 22 Jan 2018 23:39

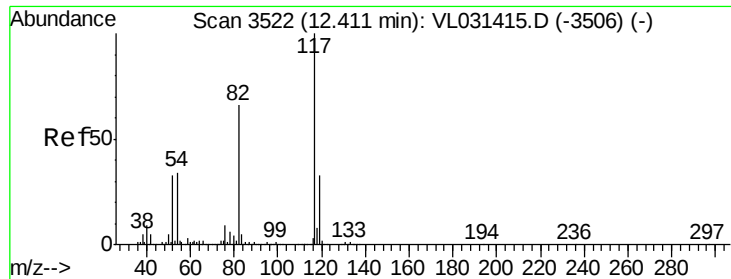
Tgt Ion: 107 Resp: 17069

Ion Ratio Lower Upper

107 100

109 80.0 75.5 113.3





#55

Chlorobenzene-d5

Concen: 10.00 ppbv

RT: 12.41 min Scan# 3521

Delta R.T. -0.01 min

Lab File: VL031429.D

Acq: 22 Jan 2018 23:39

Instrument :

MSVOA_L

ClientSampleId :

MDL-AIR-4

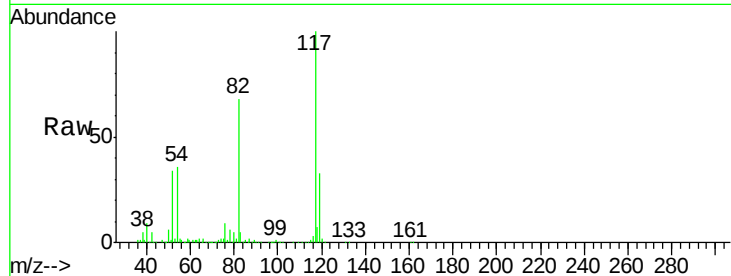
Tgt Ion:117 Resp: 2628977

Ion Ratio Lower Upper

117 100

82 68.1 51.8 77.6

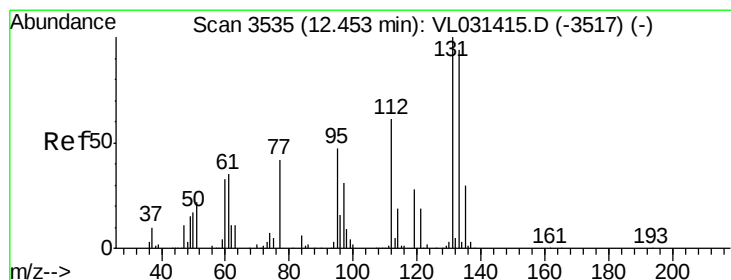
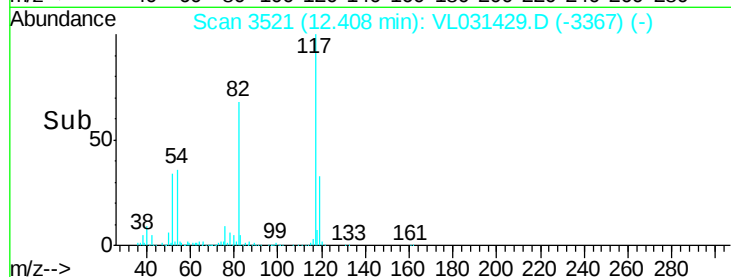
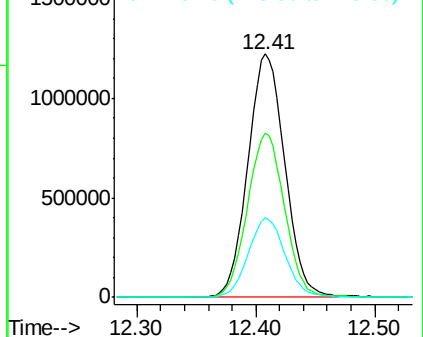
119 32.6 24.2 36.2



Abundance Ion 117.10 (116.80 to 117.80): V

Ion 82.10 (81.80 to 82.80): V

Ion 119.10 (118.80 to 119.80): V



#56

1,1,1,2-Tetrachloroethane

Concen: 0.05 ppbv

RT: 12.46 min Scan# 3536

Delta R.T. 0.00 min

Lab File: VL031429.D

Acq: 22 Jan 2018 23:39

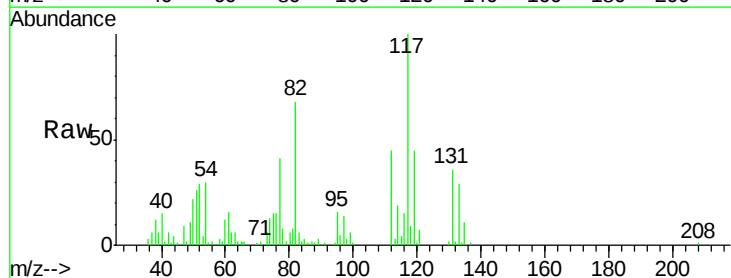
Tgt Ion:131 Resp: 6073

Ion Ratio Lower Upper

131 100

133 276.1 76.9 115.3#

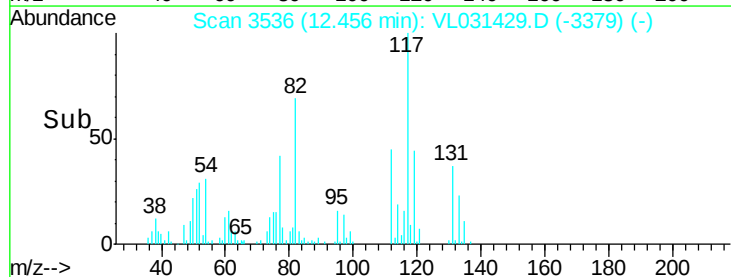
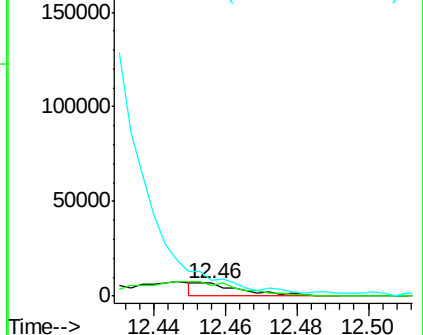
119 0.0 47.7 71.5#

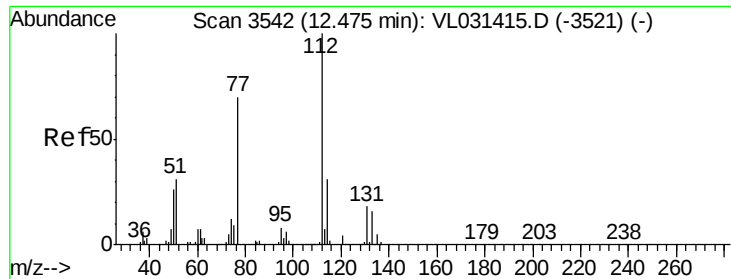


Abundance Ion 131.00 (130.70 to 131.70): V

Ion 133.00 (132.70 to 133.70): V

Ion 119.00 (118.70 to 119.70): V





#57

Chlorobenzene

Concen: 0.12 ppbv

RT: 12.47 min Scan# 3541

Delta R.T. -0.00 min

Lab File: VL031429.D

Acq: 22 Jan 2018 23:39

Instrument :

MSVOA_L

ClientSampleId :

MDL-AIR-4

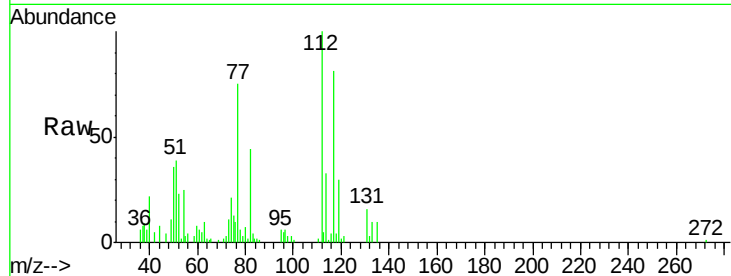
Tgt Ion: 112 Resp: 27458

Ion Ratio Lower Upper

112 100

77 35.6 56.0 84.0#

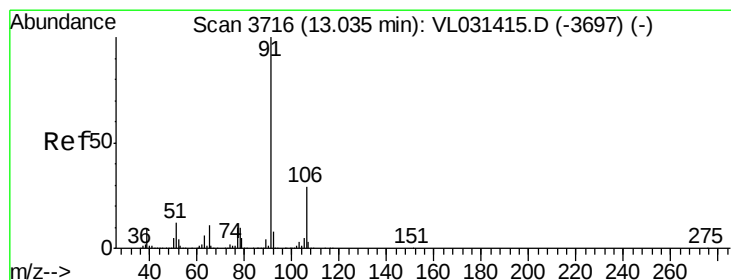
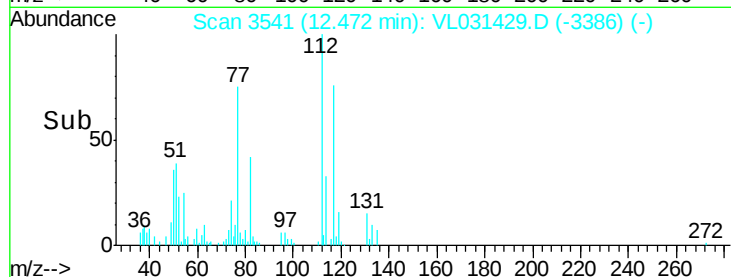
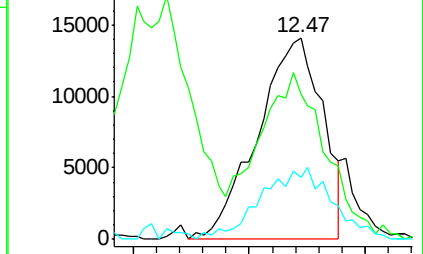
114 29.7 29.1 35.5



Abundance Ion 112.10 (111.80 to 112.80): V

Ion 77.10 (76.80 to 77.80): VL0

Ion 114.10 (113.80 to 114.80): V



#58

Ethyl Benzene

Concen: 0.09 ppbv

RT: 13.03 min Scan# 3715

Delta R.T. -0.01 min

Lab File: VL031429.D

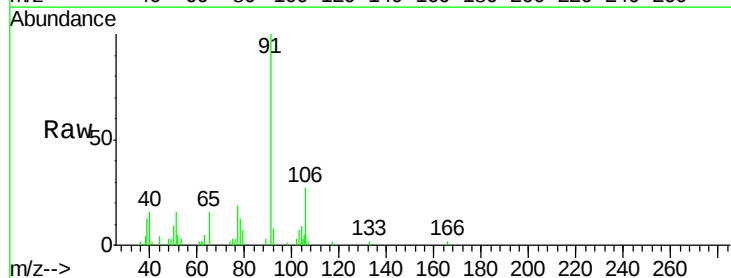
Acq: 22 Jan 2018 23:39

Tgt Ion: 91 Resp: 35707

Ion Ratio Lower Upper

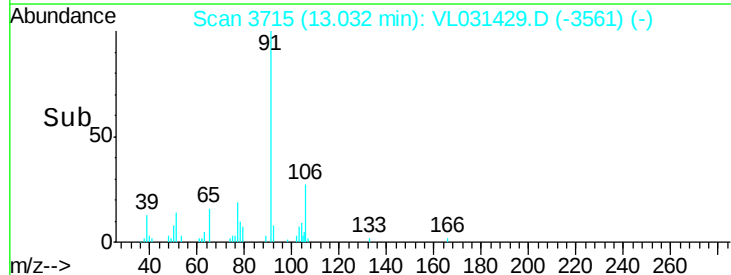
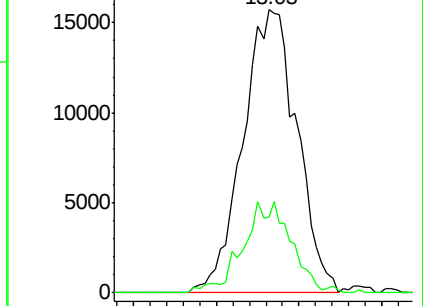
91 100

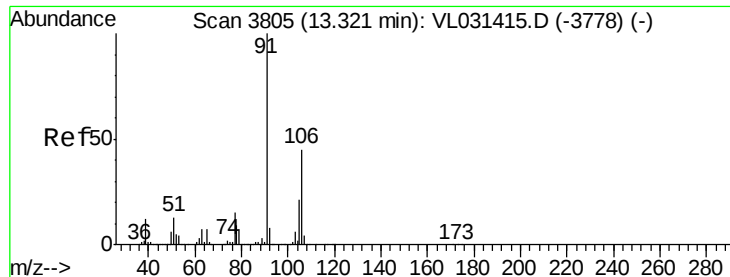
106 26.7 23.8 35.6



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V





#59

m/p-Xylene

Concen: 0.08 ppbv

RT: 13.32 min Scan# 3804

Delta R.T. -0.00 min

Lab File: VL031429.D

Acq: 22 Jan 2018 23:39

Instrument :

MSVOA_L

ClientSampleId :

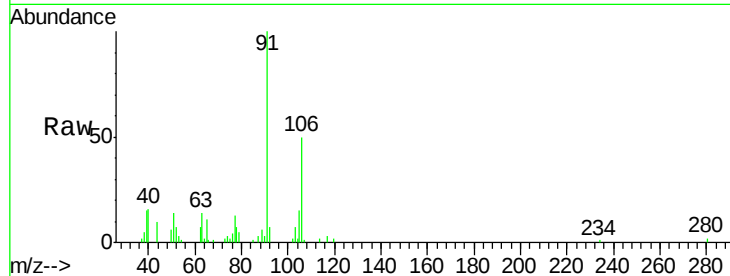
MDL-AIR-4

Tgt Ion: 91 Resp: 26127

Ion Ratio Lower Upper

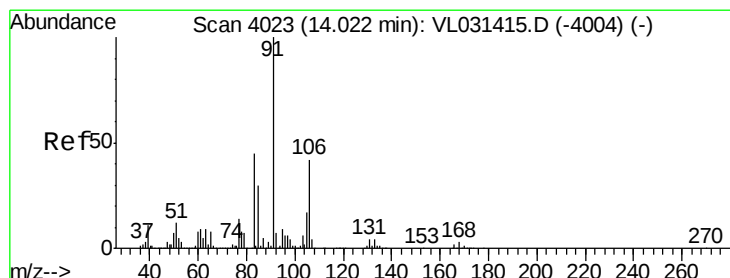
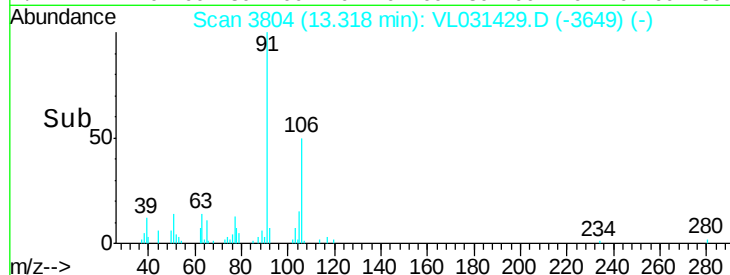
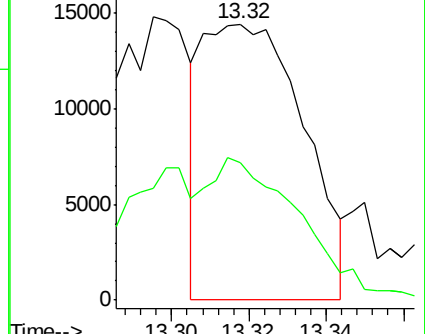
91 100

106 97.6 35.6 53.4#



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V



#60

o-Xylene

Concen: 0.08 ppbv

RT: 14.02 min Scan# 4022

Delta R.T. -0.01 min

Lab File: VL031429.D

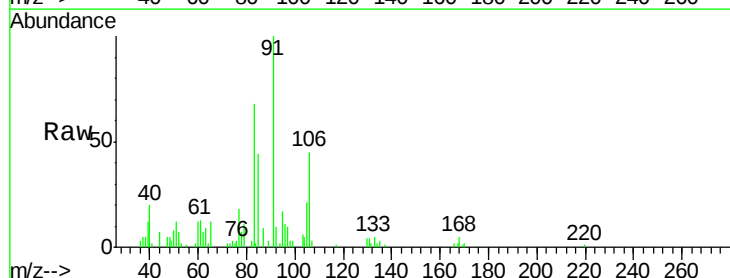
Acq: 22 Jan 2018 23:39

Tgt Ion: 91 Resp: 27276

Ion Ratio Lower Upper

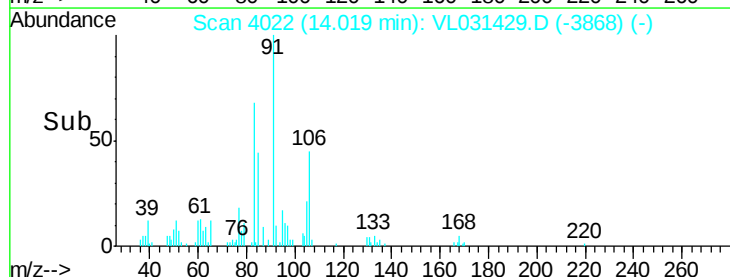
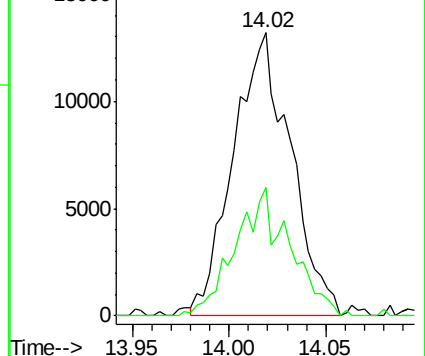
91 100

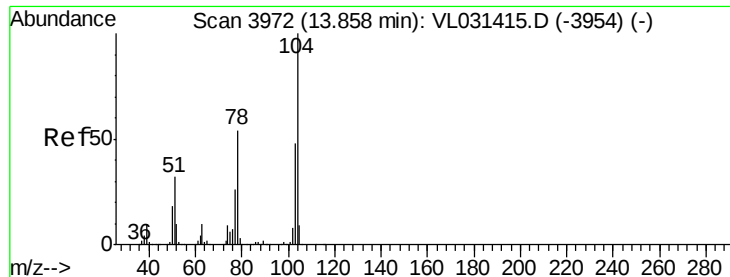
106 43.1 21.3 64.0



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V





#61

Styrene

Concen: 0.03 ppbv

RT: 13.86 min Scan# 3972

Delta R.T. 0.00 min

Lab File: VL031429.D

Acq: 22 Jan 2018 23:39

Instrument :

MSVOA_L

ClientSampleId :

MDL-AIR-4

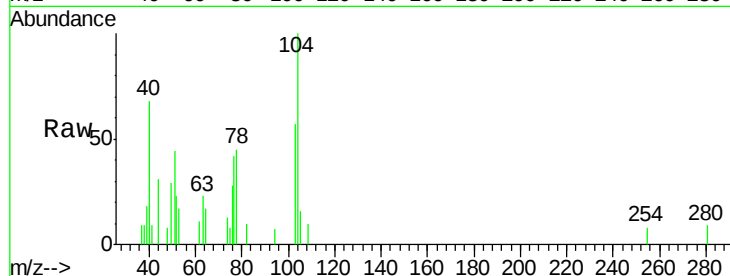
Tgt Ion:104 Resp: 2173

Ion Ratio Lower Upper

104 100

78 147.3 45.4 68.0#

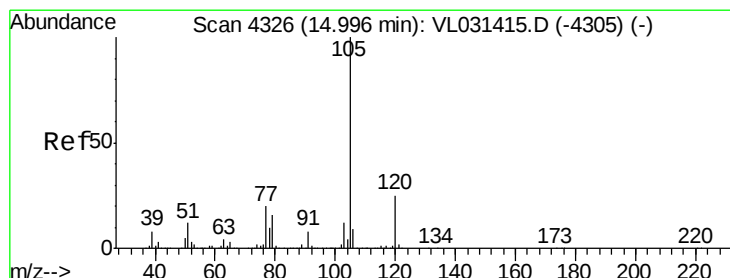
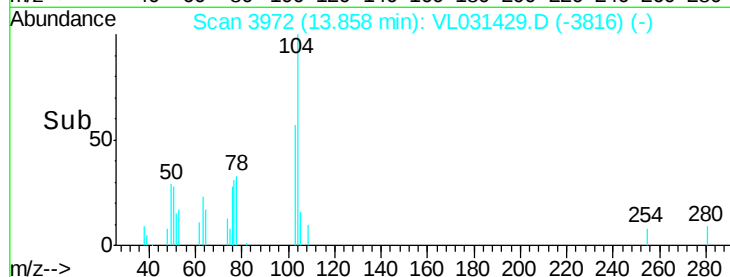
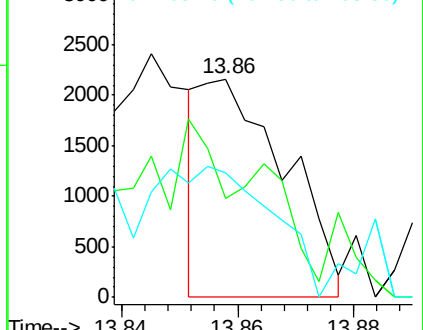
103 131.8 38.6 57.8#



Abundance Ion 104.10 (103.80 to 104.80): V

Ion 78.10 (77.80 to 78.80): V

Ion 103.10 (102.80 to 103.80): V



#62

Isopropylbenzene

Concen: 0.10 ppbv

RT: 15.00 min Scan# 4326

Delta R.T. -0.00 min

Lab File: VL031429.D

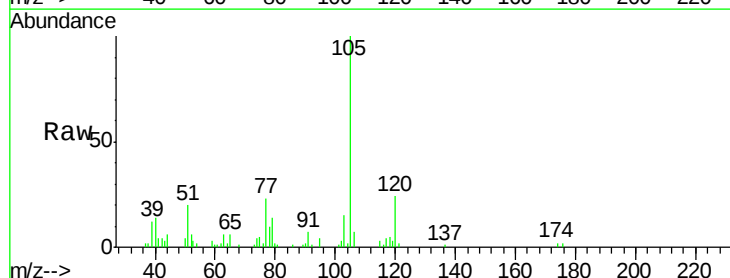
Acq: 22 Jan 2018 23:39

Tgt Ion:105 Resp: 42258

Ion Ratio Lower Upper

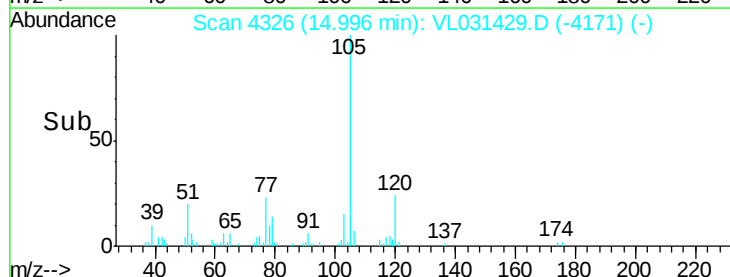
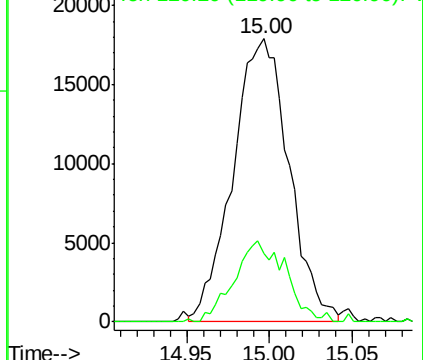
105 100

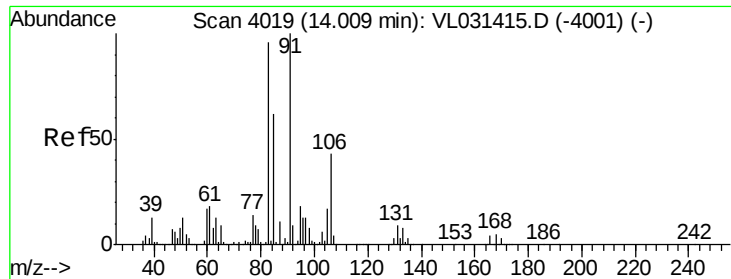
120 26.4 19.9 29.9



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

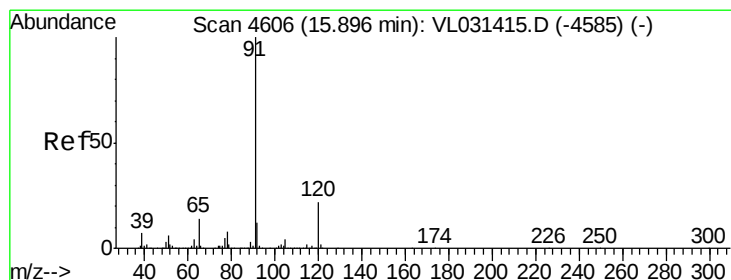
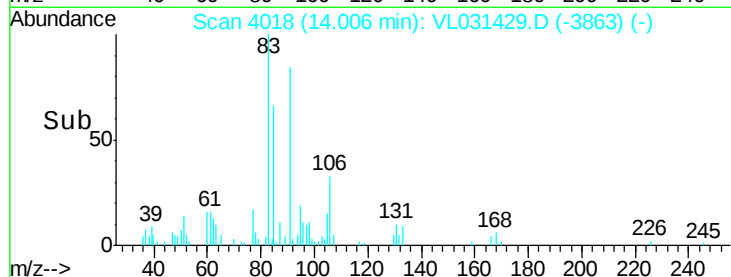
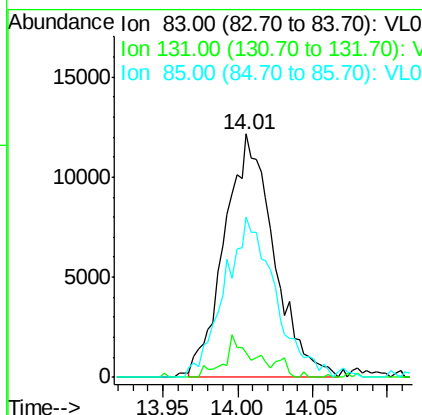
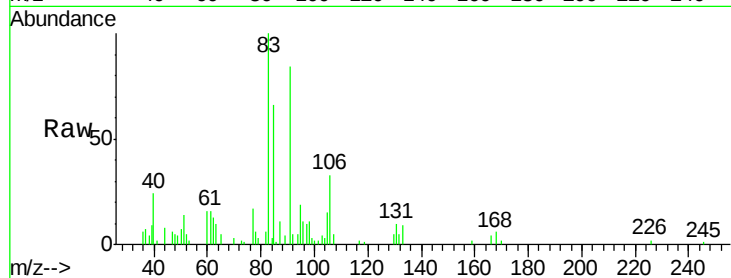




#63
 1,1,2,2-Tetrachloroethane
 Concen: 0.12 ppbv
 RT: 14.01 min Scan# 4018
 Delta R.T. -0.00 min
 Lab File: VL031429.D
 Acq: 22 Jan 2018 23:39

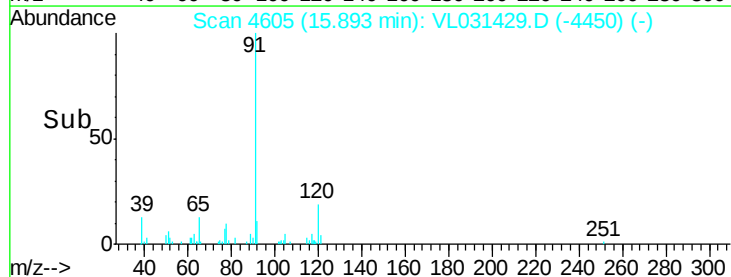
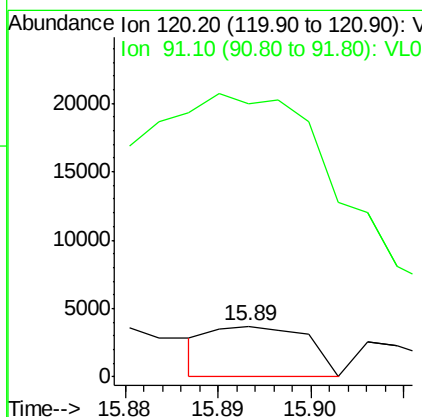
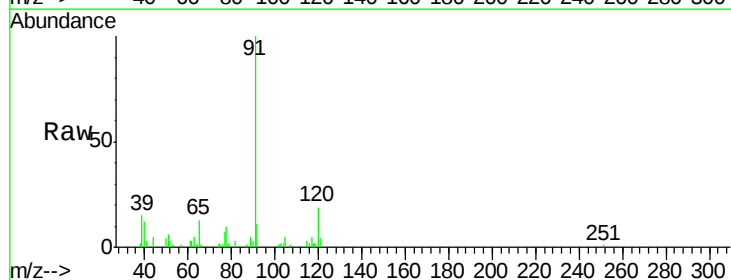
Instrument :
 MSVOA_L
 ClientSampleId :
 MDL-AIR-4

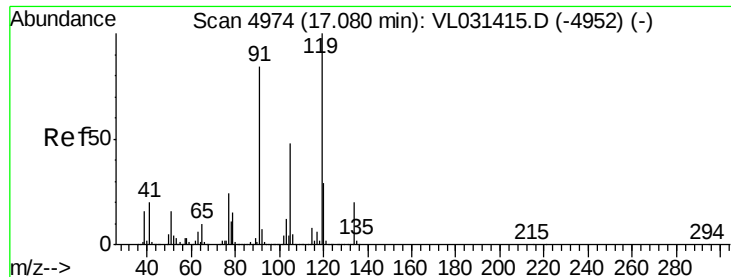
Tgt Ion: 83 Resp: 27920
 Ion Ratio Lower Upper
 83 100
 131 11.6 4.8 14.3
 85 68.2 32.4 97.0



#64
 n-propylbenzene
 Concen: 0.03 ppbv
 RT: 15.89 min Scan# 4605
 Delta R.T. -0.00 min
 Lab File: VL031429.D
 Acq: 22 Jan 2018 23:39

Tgt Ion: 120 Resp: 2654
 Ion Ratio Lower Upper
 120 100
 91 1849.2 389.8 584.6#





#65

tert-Butylbenzene

Concen: 0.03 ppbv

RT: 17.08 min Scan# 4973

Delta R.T. -0.01 min

Lab File: VL031429.D

Acq: 22 Jan 2018 23:39

Instrument :

MSVOA_L

ClientSampleId :

MDL-AIR-4

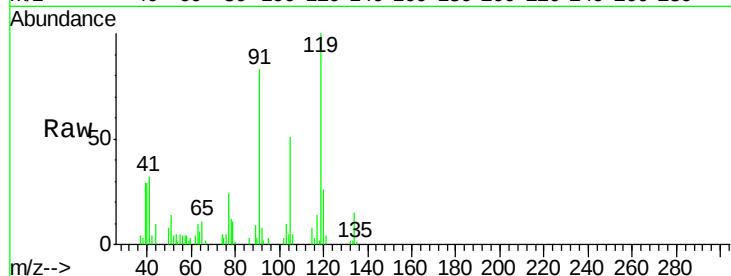
Tgt Ion: 119 Resp: 9993

Ion Ratio Lower Upper

119 100

91 0.0 69.0 103.6#

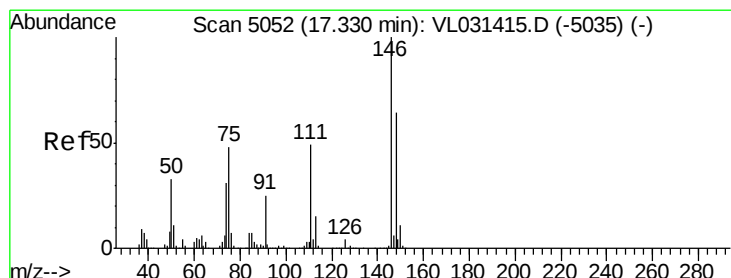
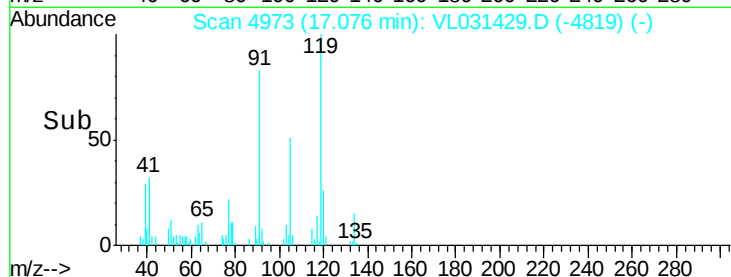
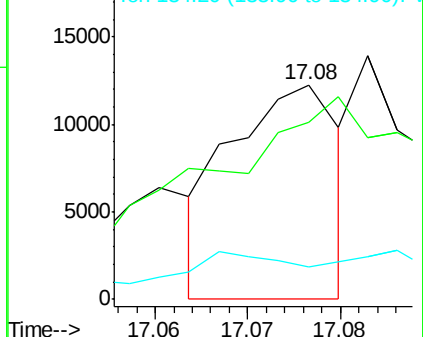
134 0.0 15.7 23.5#



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



#66

Benzyl Chloride

Concen: 0.01 ppbv

RT: 17.33 min Scan# 5051

Delta R.T. 0.00 min

Lab File: VL031429.D

Acq: 22 Jan 2018 23:39

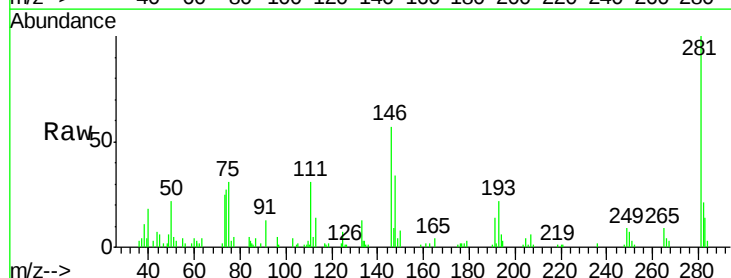
Tgt Ion: 91 Resp: 301

Ion Ratio Lower Upper

91 100

126 196.3 13.8 20.8#

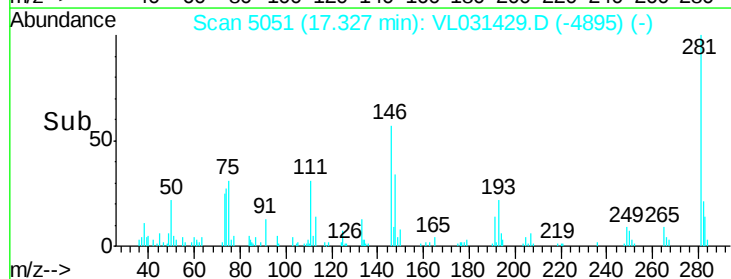
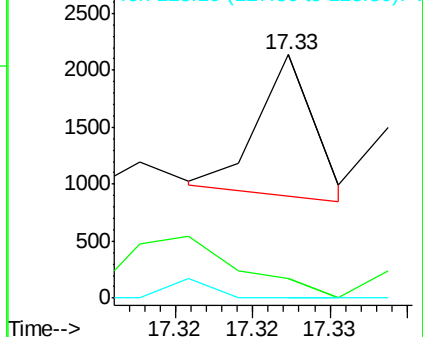
128 0.0 4.6 6.8#

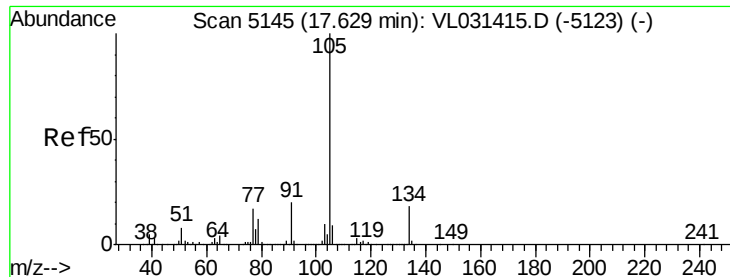


Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 126.10 (125.80 to 126.80): V

Ion 128.10 (127.80 to 128.80): V

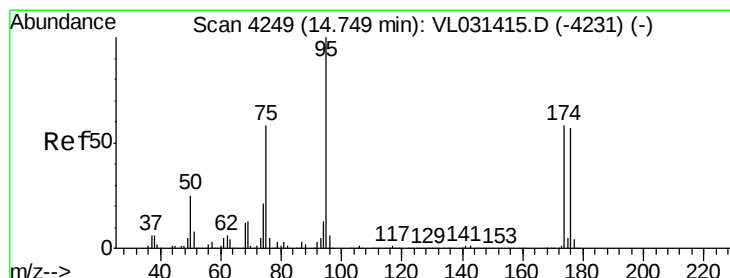
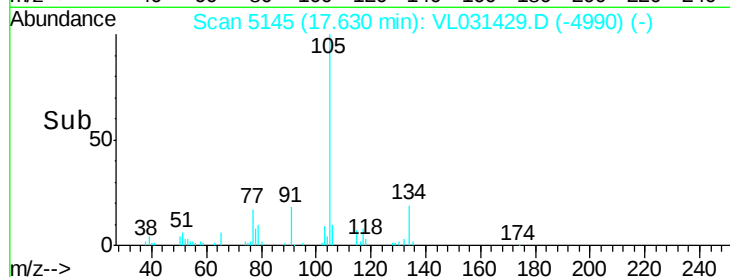
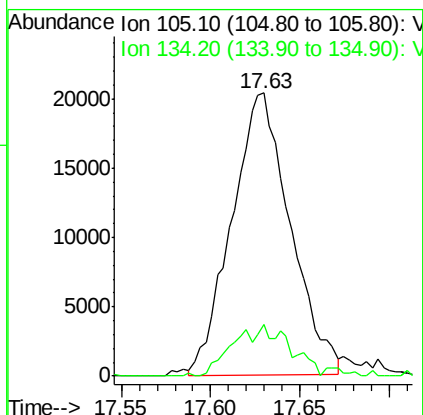
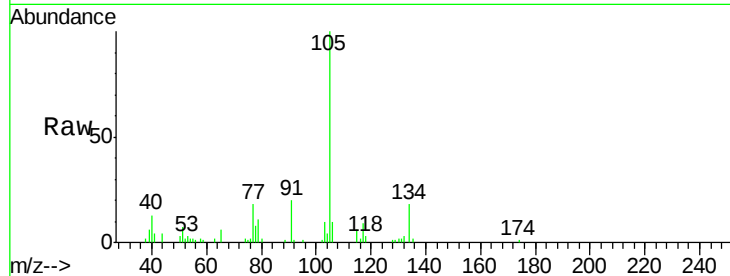




#67
 sec-Butylbenzene
 Concen: 0.09 ppbv
 RT: 17.63 min Scan# 5145
 Delta R.T. -0.00 min
 Lab File: VL031429.D
 Acq: 22 Jan 2018 23:39

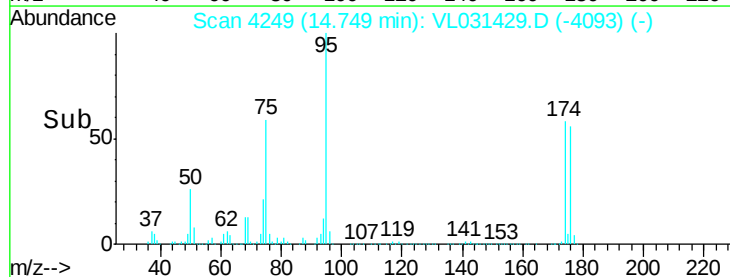
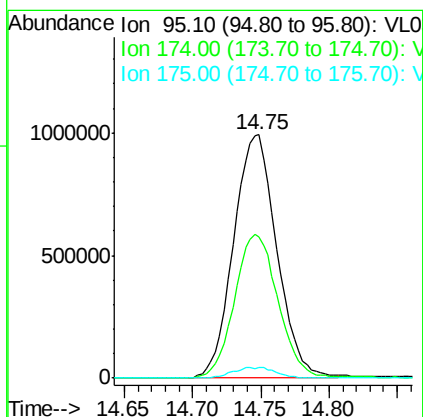
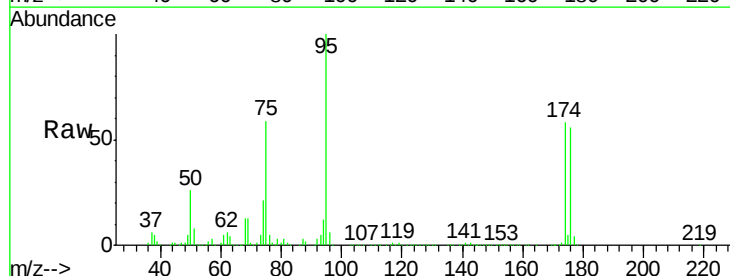
Instrument :
 MSVOA_L
 ClientSampleId :
 MDL-AIR-4

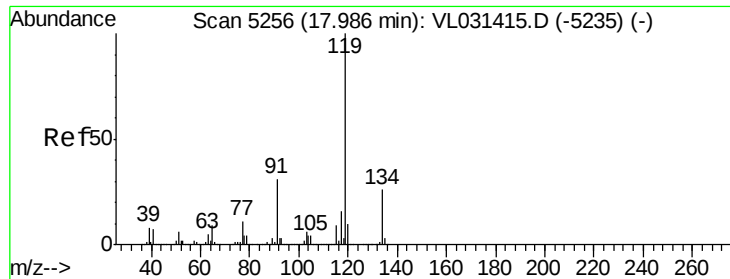
Tgt Ion: 105 Resp: 46717
 Ion Ratio Lower Upper
 105 100
 134 18.7 14.5 21.7



#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.27 ppbv
 RT: 14.75 min Scan# 4249
 Delta R.T. 0.00 min
 Lab File: VL031429.D
 Acq: 22 Jan 2018 23:39

Tgt Ion: 95 Resp: 2162993
 Ion Ratio Lower Upper
 95 100
 174 60.8 48.2 72.4
 175 4.5 3.6 5.4

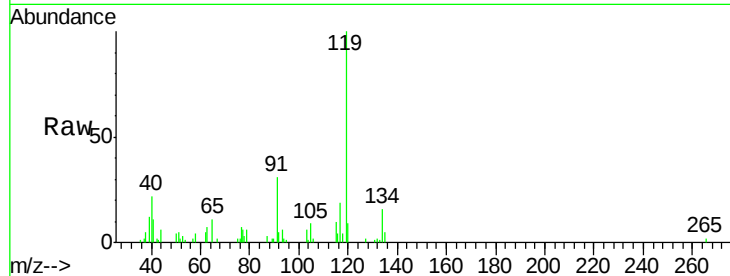




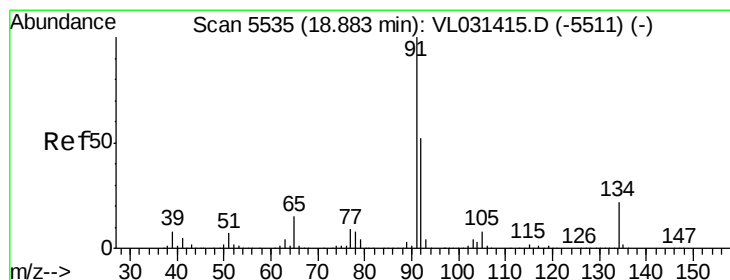
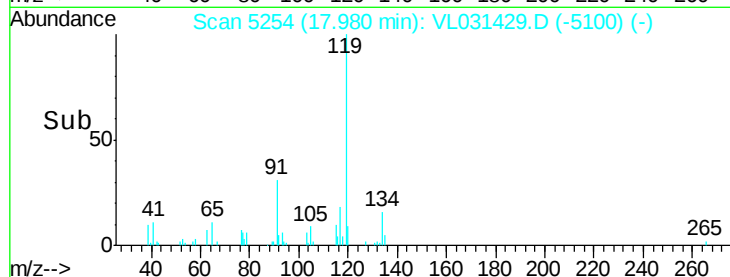
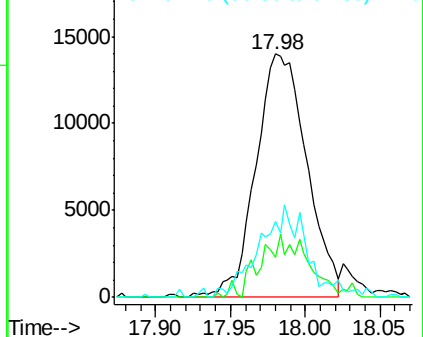
#69
p-Isopropyltoluene
Concen: 0.08 ppbv
RT: 17.98 min Scan# 5254
Delta R.T. -0.01 min
Lab File: VL031429.D
Acq: 22 Jan 2018 23:39

Instrument :
MSVOA_L
ClientSampleId :
MDL-AIR-4

Tgt Ion: 119 Resp: 33013
Ion Ratio Lower Upper
119 100
134 25.3 20.2 30.4
91 36.8 25.0 37.4

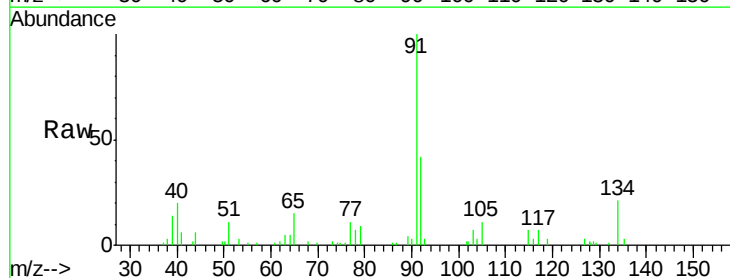


Abundance Ion 119.10 (118.80 to 119.80): V
Ion 134.20 (133.90 to 134.90): V
Ion 91.10 (90.80 to 91.80): V

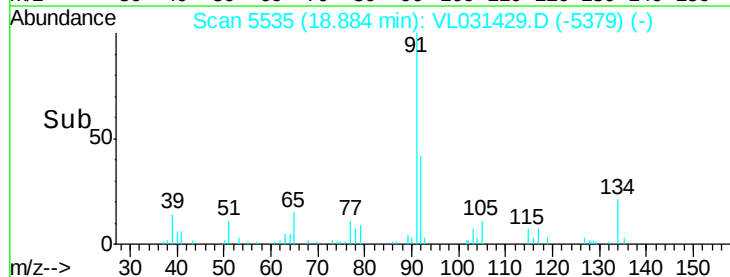
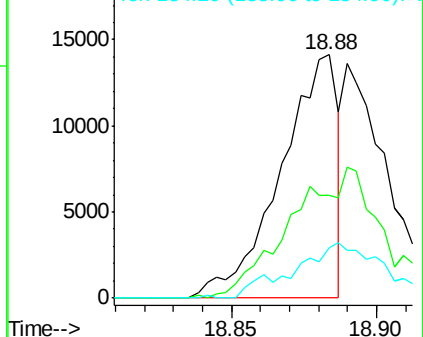


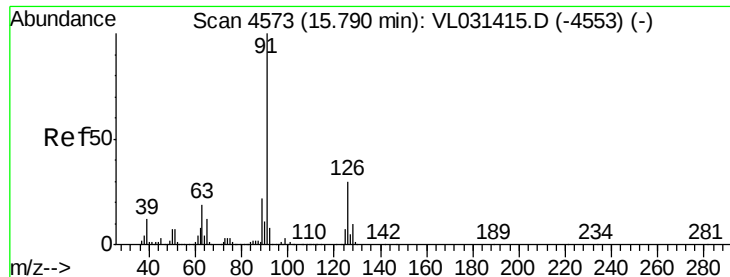
#70
n-Butylbenzene
Concen: 0.05 ppbv
RT: 18.88 min Scan# 5535
Delta R.T. 0.00 min
Lab File: VL031429.D
Acq: 22 Jan 2018 23:39

Tgt Ion: 91 Resp: 19247
Ion Ratio Lower Upper
91 100
92 0.0 42.2 63.4#
134 0.0 17.4 26.2#



Abundance Ion 91.10 (90.80 to 91.80): VL0
Ion 92.10 (91.80 to 92.80): VL0
Ion 134.20 (133.90 to 134.90): V





#71

2-Chlorotoluene

Concen: 0.06 ppbv

RT: 15.78 min Scan# 4570

Delta R.T. -0.01 min

Lab File: VL031429.D

Acq: 22 Jan 2018 23:39

Instrument :

MSVOA_L

ClientSampleId :

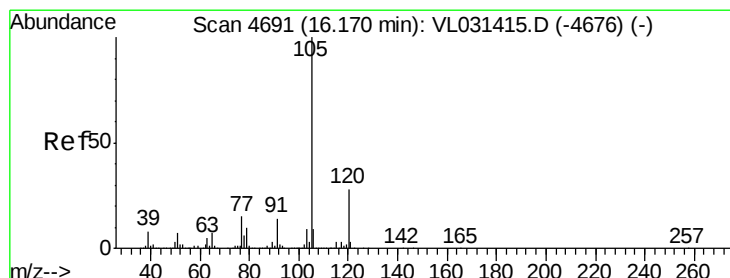
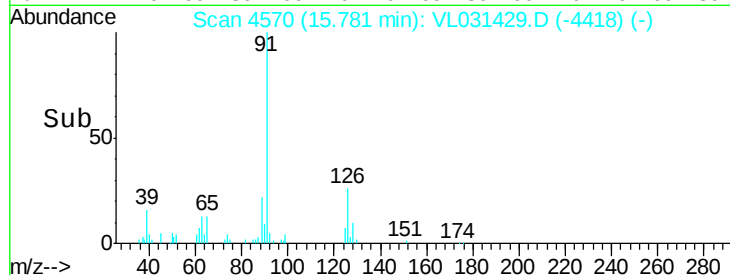
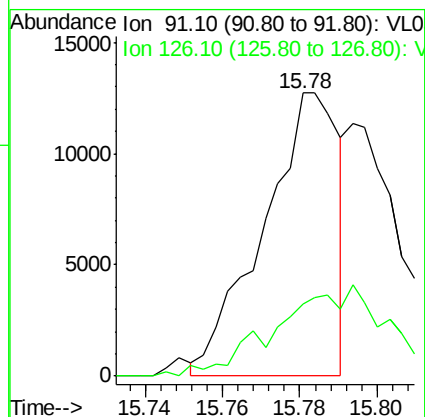
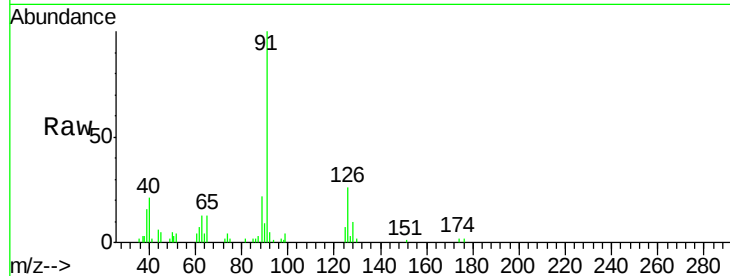
MDL-AIR-4

Tgt Ion: 91 Resp: 17226

Ion Ratio Lower Upper

91 100

126 0.0 11.7 46.9#



#72

4-Ethyltoluene

Concen: 0.04 ppbv

RT: 16.16 min Scan# 4688

Delta R.T. -0.01 min

Lab File: VL031429.D

Acq: 22 Jan 2018 23:39

Tgt Ion: 105 Resp: 12192

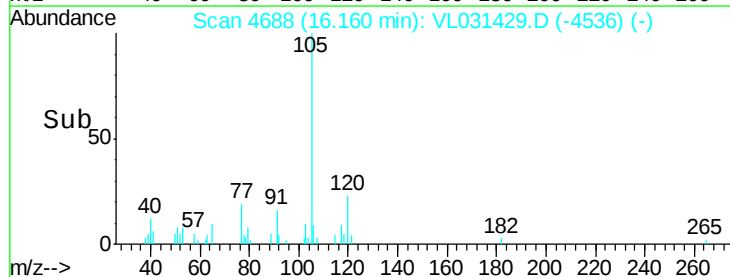
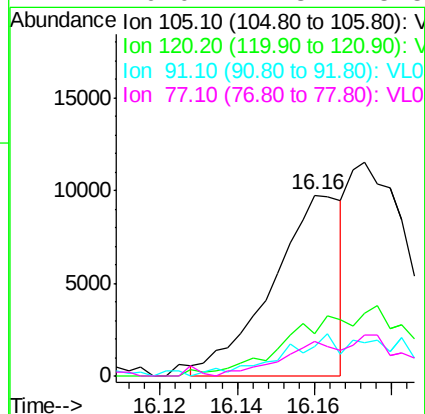
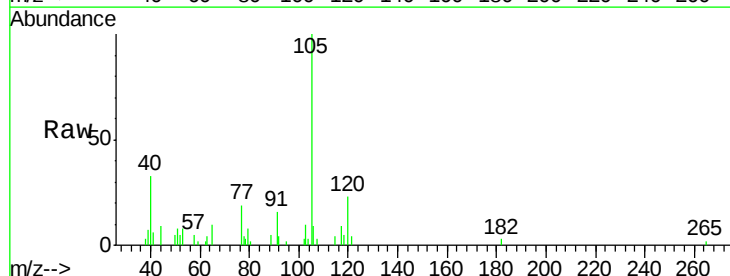
Ion Ratio Lower Upper

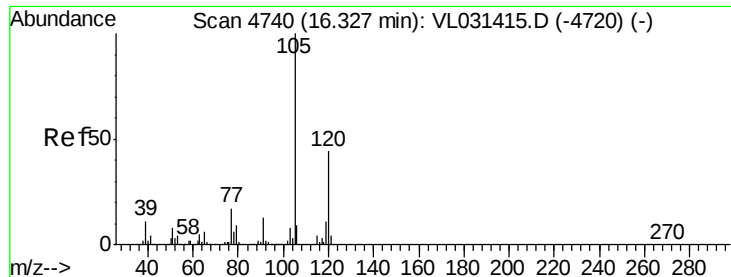
105 100

120 0.0 23.0 34.6#

91 42.7 11.0 16.4#

77 0.0 12.3 18.5#





#73

1,3,5-Trimethylbenzene

Concen: 0.08 ppbv

RT: 16.33 min Scan# 4740

Delta R.T. 0.00 min

Lab File: VL031429.D

Acq: 22 Jan 2018 23:39

Instrument :

MSVOA_L

ClientSampleId :

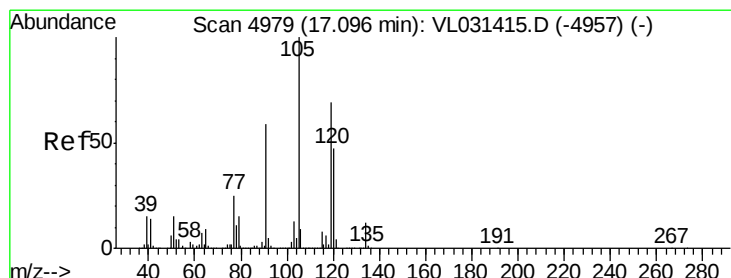
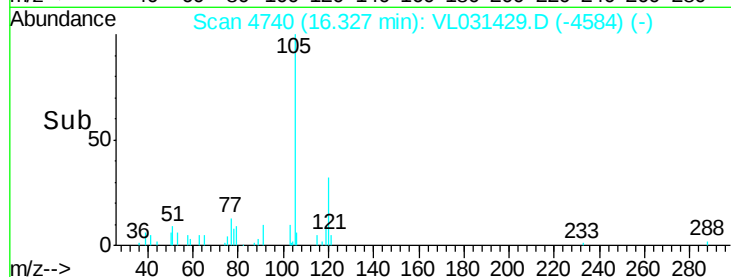
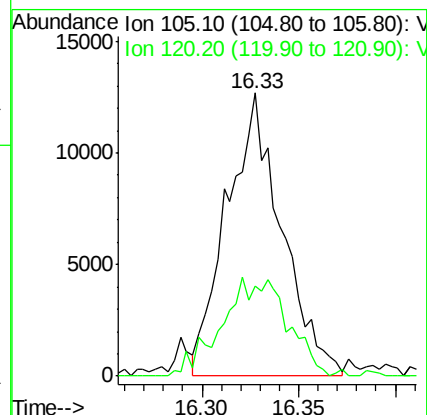
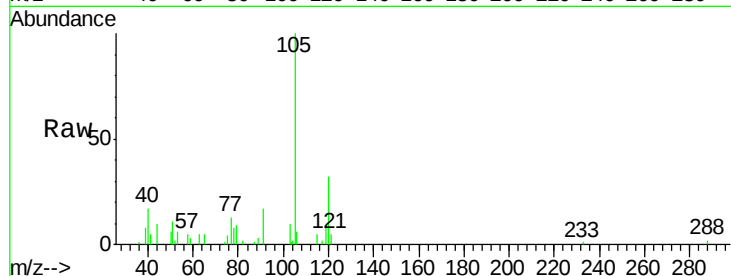
MDL-AIR-4

Tgt Ion:105 Resp: 25000

Ion Ratio Lower Upper

105 100

120 29.8 35.8 53.6#



#74

1,2,4-Trimethylbenzene

Concen: 0.08 ppbv

RT: 17.10 min Scan# 4980

Delta R.T. -0.00 min

Lab File: VL031429.D

Acq: 22 Jan 2018 23:39

Tgt Ion:105 Resp: 26734

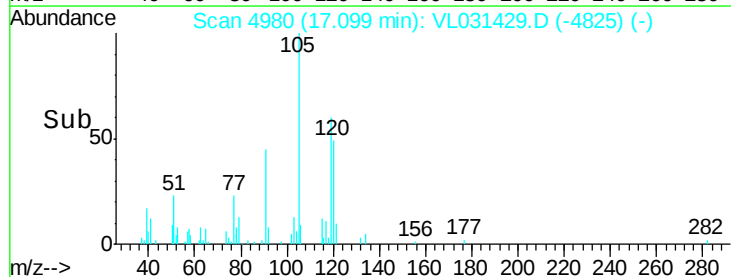
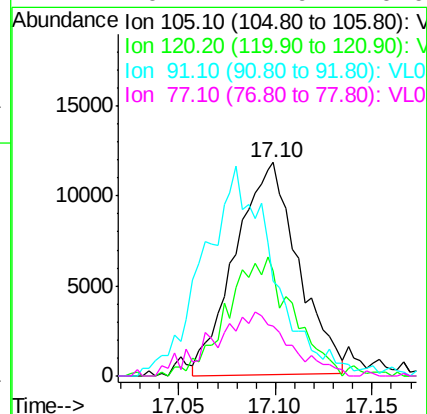
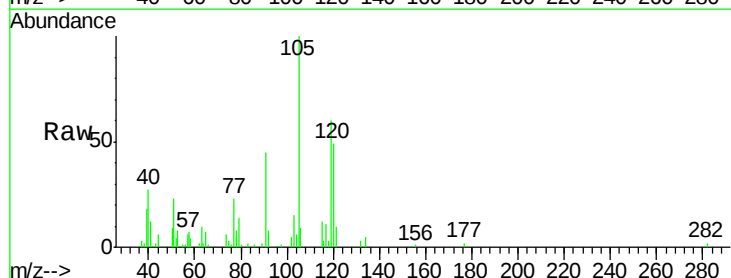
Ion Ratio Lower Upper

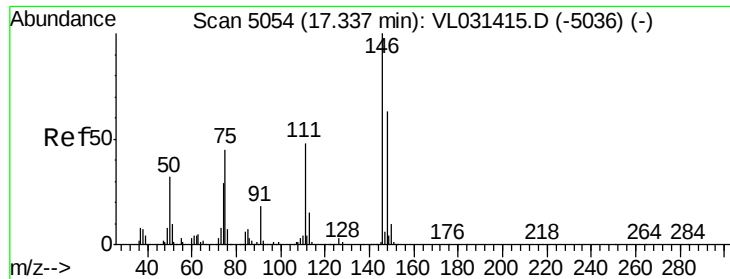
105 100

120 51.3 37.0 55.6

91 40.7 35.1 52.7

77 29.4 17.9 26.9#





#75

1,3-Dichlorobenzene

Concen: 0.07 ppbv

RT: 17.33 min Scan# 5052

Delta R.T. -0.01 min

Lab File: VL031429.D

Acq: 22 Jan 2018 23:39

Instrument :

MSVOA_L

ClientSampleId :

MDL-AIR-4

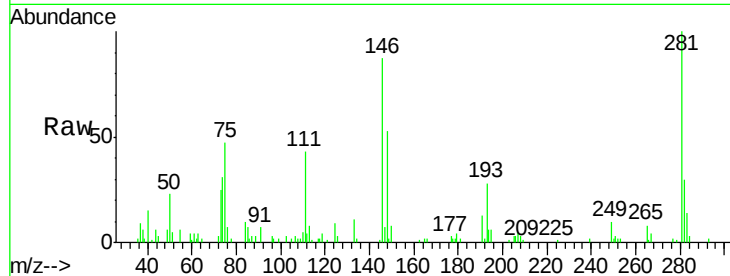
Tgt Ion:146 Resp: 14613

Ion Ratio Lower Upper

146 100

111 102.6 24.2 72.6#

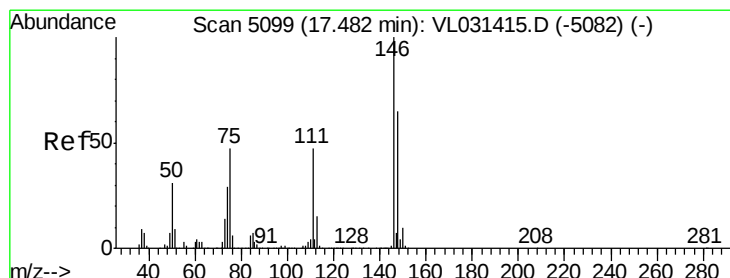
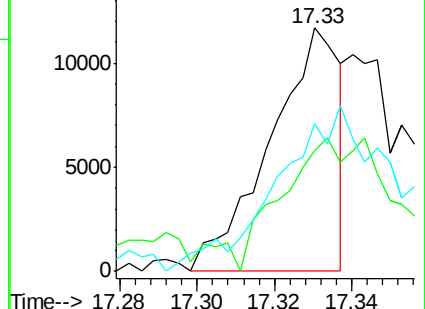
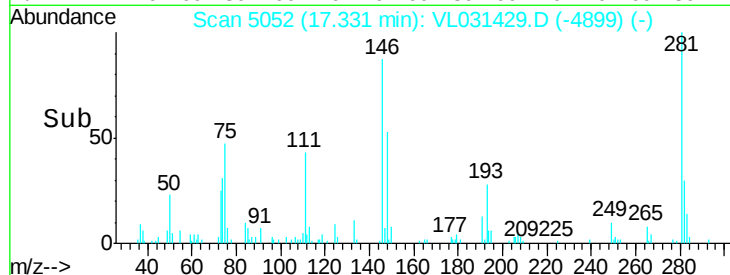
148 0.0 32.1 96.3#



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.10 (110.80 to 111.80): V

Ion 148.00 (147.70 to 148.70): V



#76

1,4-Dichlorobenzene

Concen: 0.09 ppbv

RT: 17.48 min Scan# 5098

Delta R.T. -0.01 min

Lab File: VL031429.D

Acq: 22 Jan 2018 23:39

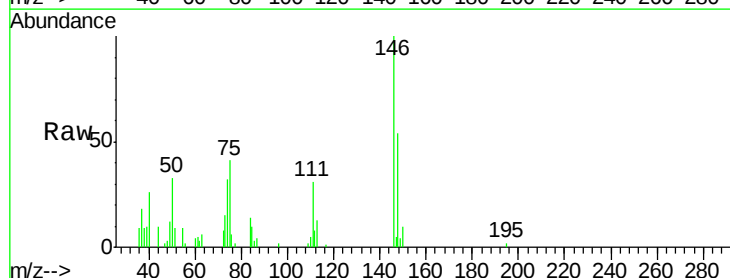
Tgt Ion:146 Resp: 18709

Ion Ratio Lower Upper

146 100

111 59.3 23.3 69.9

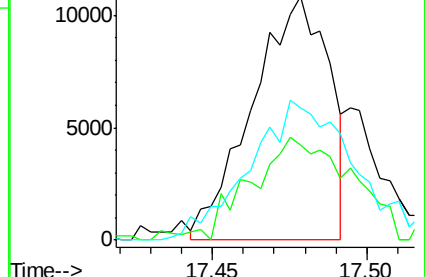
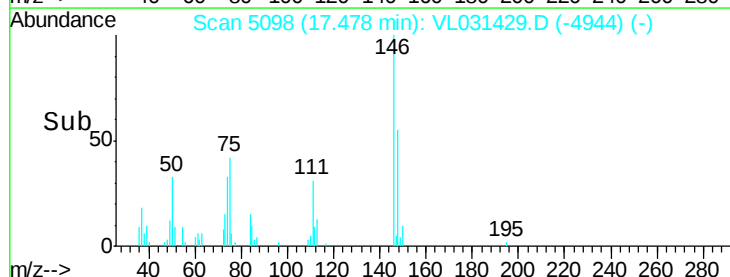
148 79.8 32.4 97.2

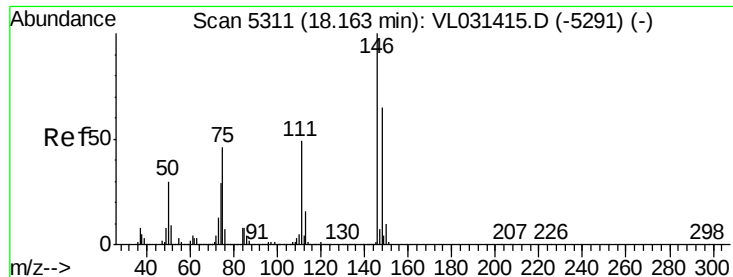


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.10 (110.80 to 111.80): V

Ion 148.00 (147.70 to 148.70): V

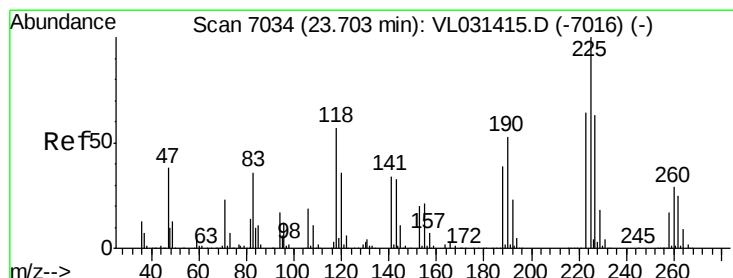
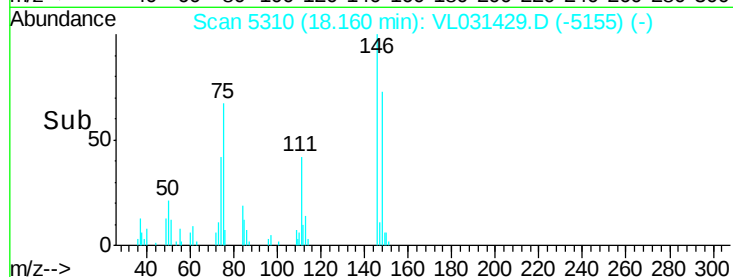
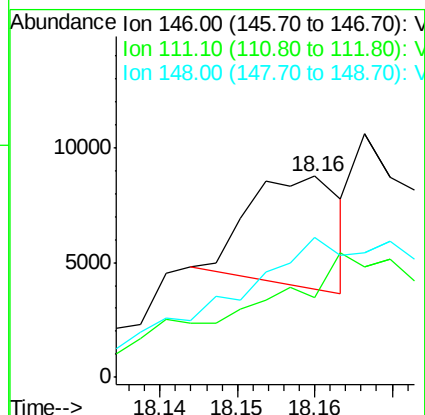
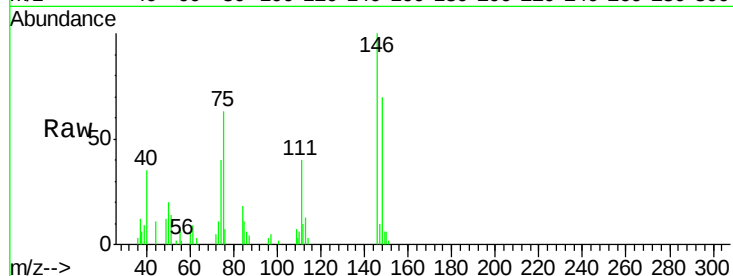




#77
 1,2-Dichlorobenzene
 Concen: 0.02 ppbv
 RT: 18.16 min Scan# 5310
 Delta R.T. -0.00 min
 Lab File: VL031429.D
 Acq: 22 Jan 2018 23:39

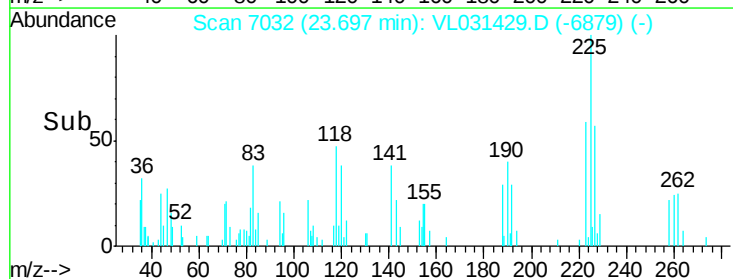
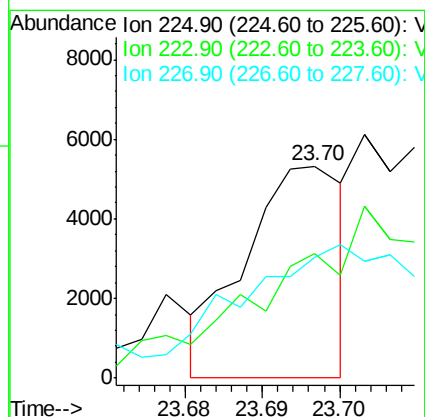
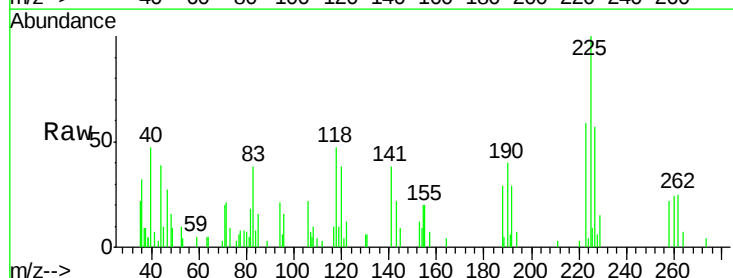
Instrument :
 MSVOA_L
 ClientSampleId :
 MDL-AIR-4

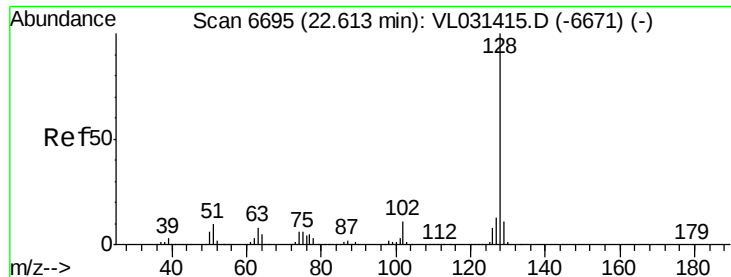
Tgt Ion:146 Resp: 3840
 Ion Ratio Lower Upper
 146 100
 111 0.0 24.6 74.0#
 148 383.8 32.3 96.8#



#78
 Hexachloro-1,3-Butadiene
 Concen: 0.07 ppbv
 RT: 23.70 min Scan# 7032
 Delta R.T. -0.01 min
 Lab File: VL031429.D
 Acq: 22 Jan 2018 23:39

Tgt Ion:225 Resp: 4717
 Ion Ratio Lower Upper
 225 100
 223 0.0 51.3 76.9#
 227 0.0 50.7 76.1#





#79

Naphthalene

Concen: 0.03 ppbv

RT: 22.61 min Scan# 6695

Delta R.T. 0.00 min

Lab File: VL031429.D

Acq: 22 Jan 2018 23:39

Instrument :

MSVOA_L

ClientSampleId :

MDL-AIR-4

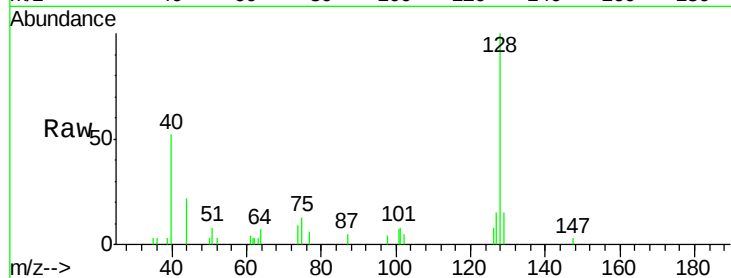
Tgt Ion:128 Resp: 7012

Ion Ratio Lower Upper

128 100

127 14.6 10.6 16.0

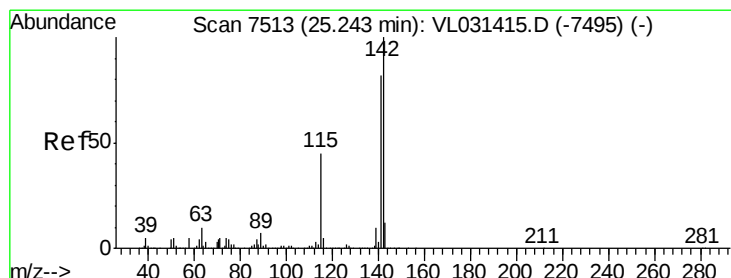
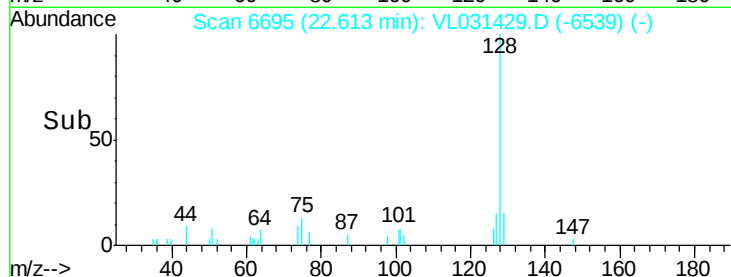
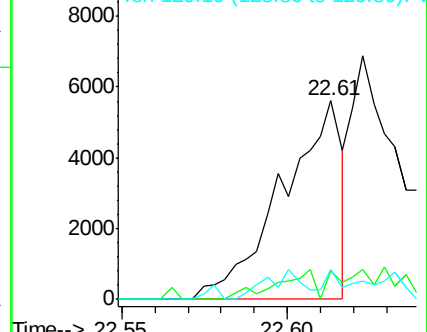
129 15.4 9.2 13.8#



Abundance Ion 128.10 (127.80 to 128.80): V

Ion 127.10 (126.80 to 127.80): V

Ion 129.10 (128.80 to 129.80): V



#80

Naphthalene, 2-methyl-

Concen: 0.06 ppbv

RT: 25.26 min Scan# 7517

Delta R.T. 0.01 min

Lab File: VL031429.D

Acq: 22 Jan 2018 23:39

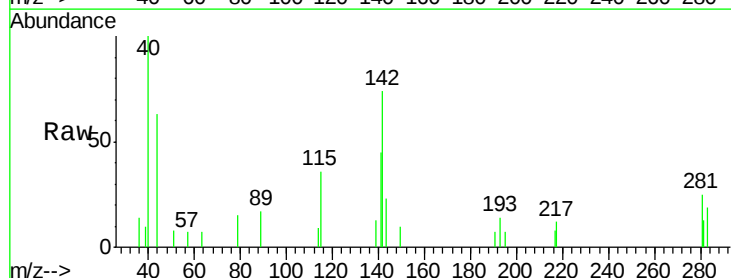
Tgt Ion:142 Resp: 3541

Ion Ratio Lower Upper

142 100

141 85.7 68.7 103.1

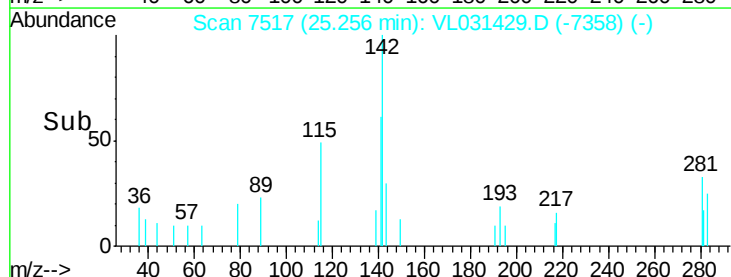
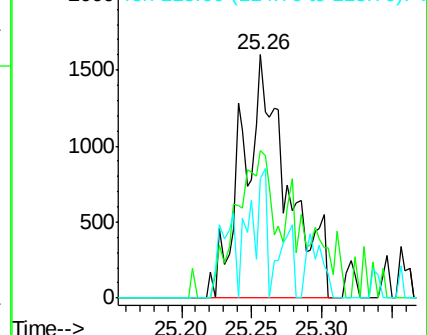
115 32.6 36.3 54.5#

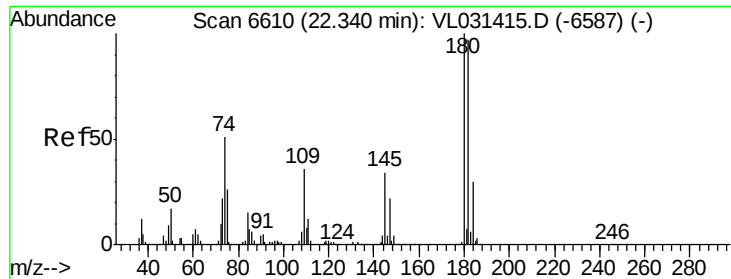


Abundance Ion 142.00 (141.70 to 142.70): V

Ion 141.00 (140.70 to 141.70): V

Ion 115.00 (114.70 to 115.70): V





#81
 1,2,4-Trichlorobenzene
 Concen: 0.04 ppbv
 RT: 22.33 min Scan# 6608
 Delta R.T. -0.01 min
 Lab File: VL031429.D
 Acq: 22 Jan 2018 23:39

Instrument :
 MSVOA_L
 ClientSampleId :
 MDL-AIR-4

Tgt Ion:180 Resp: 3982
 Ion Ratio Lower Upper
 180 100
 182 0.0 76.2 114.4#
 184 80.2 24.2 36.4#

