

Data File : VL031417.D

Acq On : 22 Jan 2018 14:32

Operator : SY/AP

Sample : VSTDIC001

Misc : 400ml/MSVOA_L

ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

Quant Time: Jan 22 16:43:39 2018

Quant Method : W:\HPCHEM1\MSVOA_L\METHODS\VL012218AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Jan 22 16:42:46 2018

QLast Update : Mon Jan 22 16:42:46 2018

Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.90	49	1363031	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.44	114	3160661	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.41	117	3121678	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.75	95	2519155	10.22	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	102.20%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	3.17	85	227441	0.86	ppbv	99
3) Chlorodifluoromethane	3.11	51	191233	0.95	ppbv	98
4) Chloromethane	3.27	50	84270	0.93	ppbv	93
5) Vinyl Chloride	3.40	62	85707	0.91	ppbv	99
6) Bromomethane	3.63	94	60973	0.97	ppbv	93
7) Chloroethane	3.71	64	34486	0.94	ppbv	90
8) Dichlorotetrafluoroethane	3.32	85	236862	0.98	ppbv	99
9) Propene	3.14	41	64233	0.87	ppbv	99
10) Heptane	8.40	43	198345	0.89	ppbv	97
11) Trichlorofluoromethane	4.12	101	275367	0.98	ppbv	96
12) 1,1,2-Trichlorotrifluoroet	4.68	101	174655	0.98	ppbv	99
13) Ethanol	3.77	45	13265	0.36	ppbv #	51
14) Bromoethene	3.90	108	64124	0.88	ppbv	99
15) Acetone	4.03	43	192853	0.85	ppbv	99
16) 1,3-Butadiene	3.47	39	83281	0.98	ppbv	93
17) tert-Butyl alcohol	4.50	59	91295	0.88	ppbv	100
18) 1,1-Dichloroethene	4.48	96	71794	0.92	ppbv	95
19) Isopropyl Alcohol	4.15	45	120268	0.78	ppbv #	96
20) Methylene Chloride	4.53	84	73629	0.90	ppbv	97
21) Allyl Chloride	4.60	41	108652	0.89	ppbv	96
22) trans-1,2-Dichloroethene	5.10	96	75440	0.91	ppbv	93
23) Vinyl Acetate	5.29	43	203515	0.79	ppbv #	98
24) 1,1-Dichloroethane	5.22	63	202097	0.93	ppbv	99
25) Ethyl Acetate	5.92	43	331263	0.86	ppbv	98
26) Hexane	5.92	57	149673	0.93	ppbv	98
27) Carbon Disulfide	4.75	76	189743	0.88	ppbv	97
28) Methyl tert-Butyl Ether	5.26	73	171439	0.87	ppbv	100
29) Chloroform	5.99	83	258381	0.93	ppbv	97
30) Cyclohexane	7.40	84	110435	0.85	ppbv	96
31) cis-1,2-Dichloroethene	5.78	61	136171	0.87	ppbv	94
32) 1,1,1-Trichloroethane	6.77	97	258908	0.89	ppbv	99
34) 2-Butanone	5.47	43	198557	0.76	ppbv	100
35) Carbon Tetrachloride	7.29	117	274080	0.91	ppbv	99
36) Benzene	7.16	78	280666	0.86	ppbv	100
37) 1,2-Dichloroethane	6.56	62	228037	0.95	ppbv	100
38) Trichloroethene	8.12	130	59733	0.44	ppbv	95
39) 1,2-Dichloropropane	7.90	63	109003	0.90	ppbv	97
40) 1,4-Dioxane	8.14	88	44033	0.73	ppbv	75
41) Tetrahydrofuran	6.31	42	107886	0.81	ppbv	98
42) Bromodichloromethane	8.07	83	268777	0.90	ppbv #	98
43) Methyl Methacrylate	8.30	69	97692	0.80	ppbv	96

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Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Jan 22 16:42:46 2018

QLast Update : Mon Jan 22 16:42:46 2018

Response via : Initial Calibration

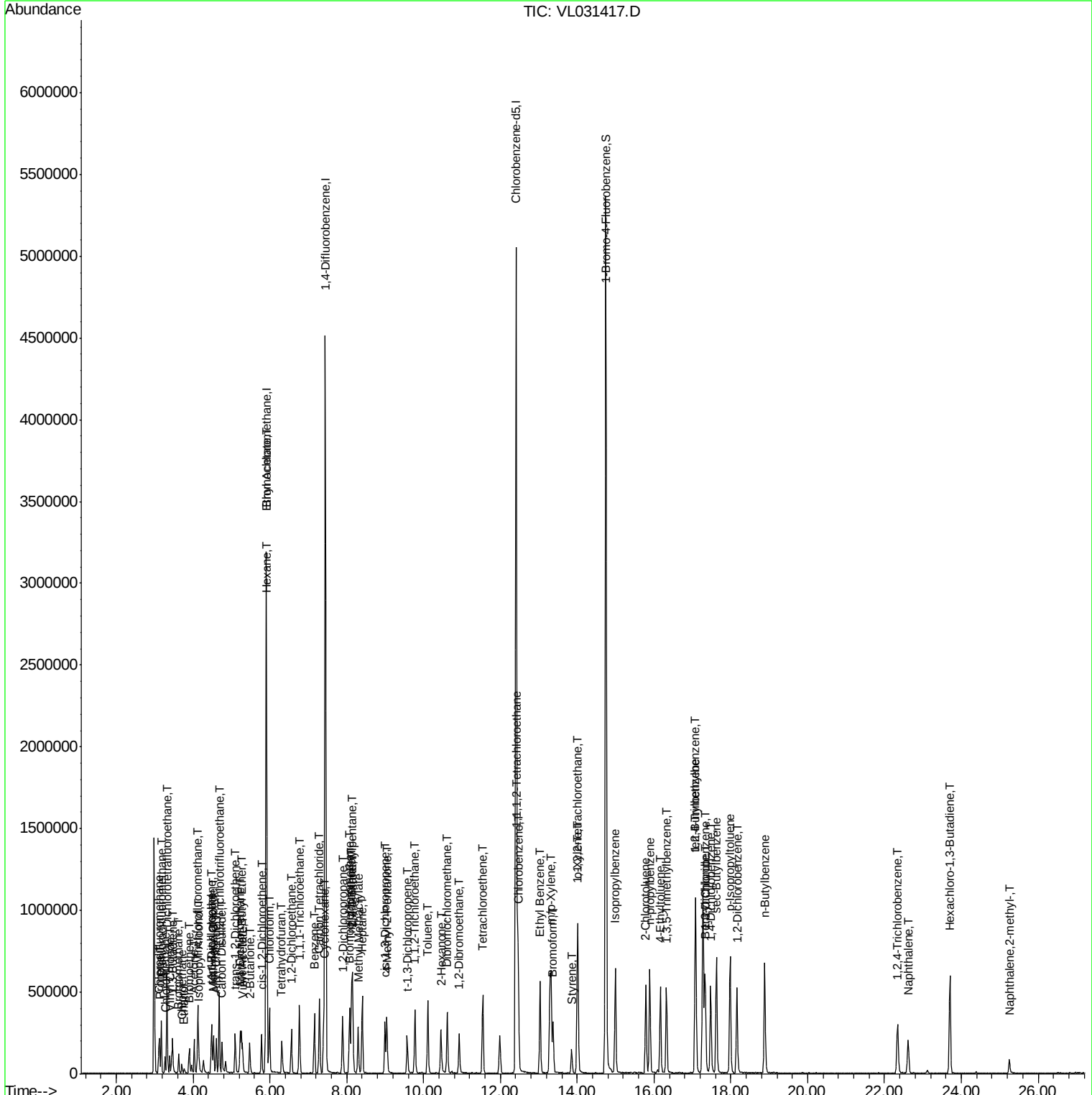
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	8.15	57	498031	0.91	ppbv	98
45) t-1,3-Dichloropropene	9.58	75	136762	0.81	ppbv	91
46) cis-1,3-Dichloropropene	9.00	75	168582	0.81	ppbv	99
47) 1,1,2-Trichloroethane	9.78	97	127762	0.90	ppbv	97
48) Dibromochloromethane	10.62	129	218925	0.87	ppbv	99
49) Bromoform	13.37	173	165866	0.84	ppbv	99
50) 4-Methyl-2-Pentanone	9.04	43	271563	0.78	ppbv	98
51) 2-Hexanone	10.45	43	249845	0.71	ppbv #	95
52) Tetrachloroethene	11.54	164	108302	0.84	ppbv	96
53) Toluene	10.11	91	328216	0.85	ppbv	100
54) 1,2-Dibromoethane	10.93	107	189767	0.85	ppbv	91
56) 1,1,1,2-Tetrachloroethane	12.45	131	155194	0.96	ppbv #	1
57) Chlorobenzene	12.48	112	289168	0.98	ppbv #	96
58) Ethyl Benzene	13.03	91	475779	0.93	ppbv	95
59) m/p-Xylene	13.31	91	74926	0.18	ppbv #	32
60) o-Xylene	14.02	91	420512	0.98	ppbv	99
61) Styrene	13.85	104	79002	0.84	ppbv	99
62) Isopropylbenzene	15.00	105	523464	0.97	ppbv	99
63) 1,1,2,2-Tetrachloroethane	14.00	83	292576	0.90	ppbv	100
64) n-propylbenzene	15.89	120	125493	0.92	ppbv	85
65) tert-Butylbenzene	17.07	119	459097	0.95	ppbv	97
66) Benzyl Chloride	17.31	91	12215	0.27	ppbv #	61
67) sec-Butylbenzene	17.62	105	643581	0.94	ppbv	99
69) p-Isopropyltoluene	17.98	119	515050	0.95	ppbv	98
70) n-Butylbenzene	18.88	91	542696	0.96	ppbv	98
71) 2-Chlorotoluene	15.79	91	395672	0.95	ppbv	99
72) 4-Ethyltoluene	16.17	105	414439	0.94	ppbv	99
73) 1,3,5-Trimethylbenzene	16.32	105	382259	0.98	ppbv	97
74) 1,2,4-Trimethylbenzene	17.09	105	428947	1.01	ppbv #	89
75) 1,3-Dichlorobenzene	17.33	146	260947	0.95	ppbv	96
76) 1,4-Dichlorobenzene	17.48	146	252214	0.93	ppbv	99
77) 1,2-Dichlorobenzene	18.16	146	141223	0.52	ppbv #	36
78) Hexachloro-1,3-Butadiene	23.71	225	131310	1.51	ppbv	98
79) Naphthalene	22.61	128	239618	1.16	ppbv	99
80) Naphthalene,2-methyl-	25.25	142	47327	0.92	ppbv	98
81) 1,2,4-Trichlorobenzene	22.34	180	73631	0.61	ppbv #	29

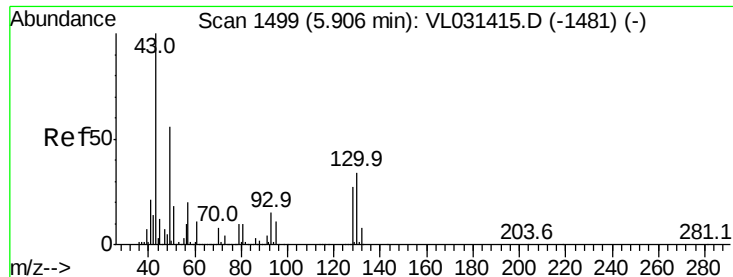
(#)=qualifier out of range (m)=manual integration (+)=signals summed

ALS Vial : 1 Sample Multiplier: 1

VSTDICC001

Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.00 ppbv

RT: 5.90 min Scan# 1498

Delta R.T. -0.01 min

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VSTDIC001

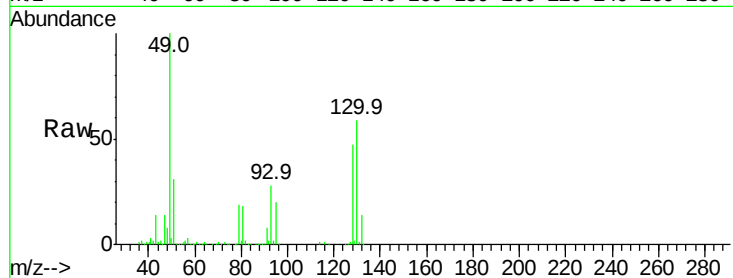
Tgt Ion: 49 Resp: 1363031

Ion Ratio Lower Upper

49 100

128 46.7 23.5 70.6

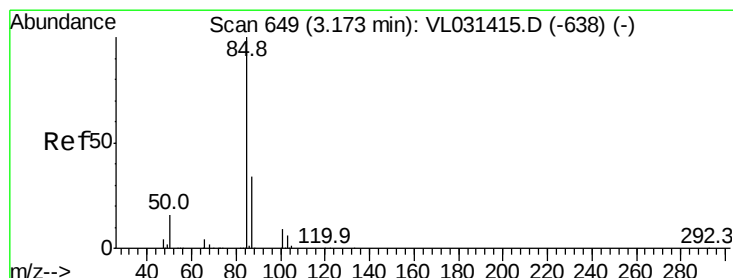
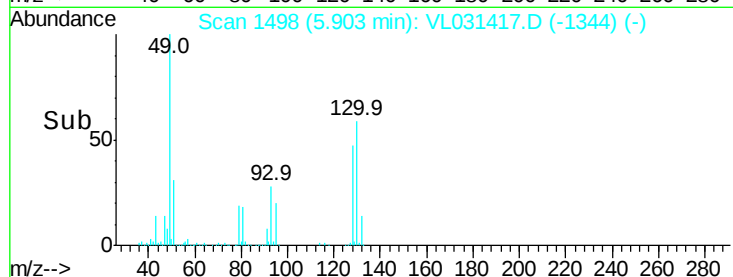
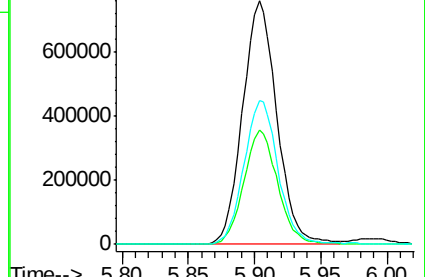
130 59.8 29.9 89.7



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): VL0

Ion 130.00 (129.70 to 130.70): VL0



#2

Dichlorodifluoromethane

Concen: 0.86 ppbv

RT: 3.17 min Scan# 649

Delta R.T. -0.00 min

Lab File: VL031417.D

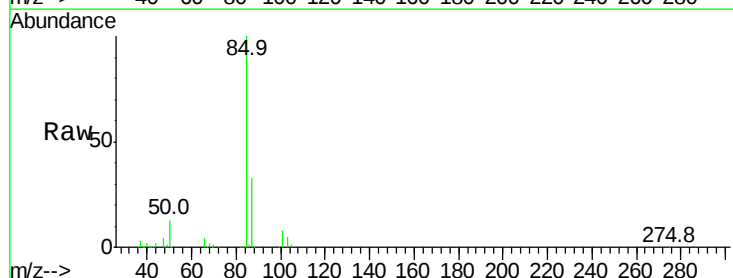
Acq: 22 Jan 2018 14:32

Tgt Ion: 85 Resp: 227441

Ion Ratio Lower Upper

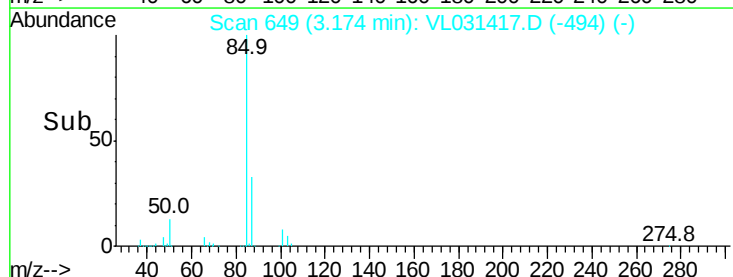
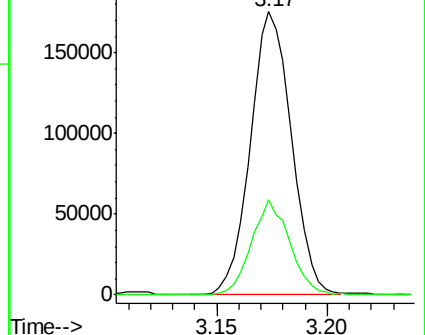
85 100

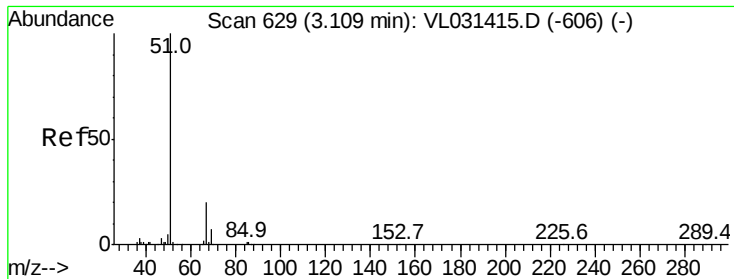
87 33.5 27.4 41.0



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.95 ppbv

RT: 3.11 min Scan# 629

Delta R.T. -0.00 min

Lab File: VL031417.D

Acq: 22 Jan 2018 14:32

Instrument :

MSVOA_L

ClientSampleId :

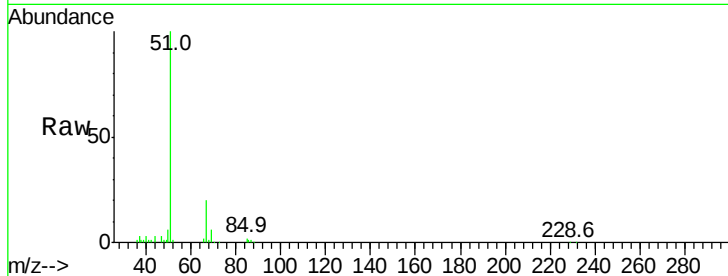
VSTDIC001

Tgt Ion: 51 Resp: 191233

Ion Ratio Lower Upper

51 100

67 19.2 16.0 24.0



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0

3.11

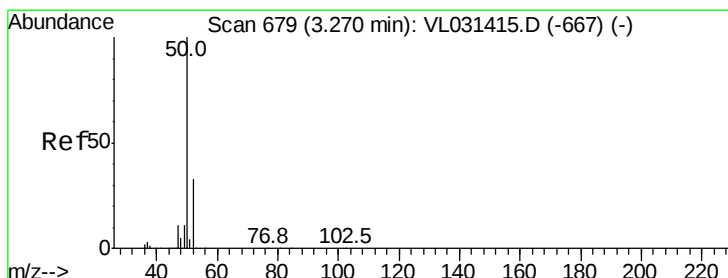
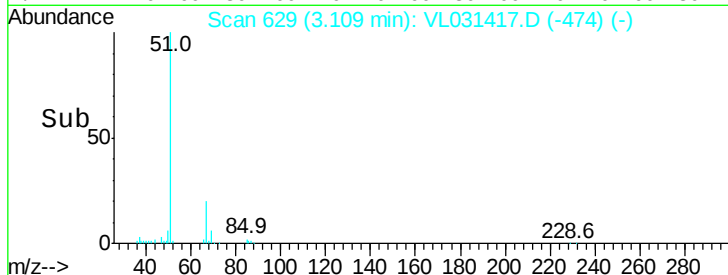
150000

100000

50000

0

Time-->



#4

Chloromethane

Concen: 0.93 ppbv

RT: 3.27 min Scan# 679

Delta R.T. -0.00 min

Lab File: VL031417.D

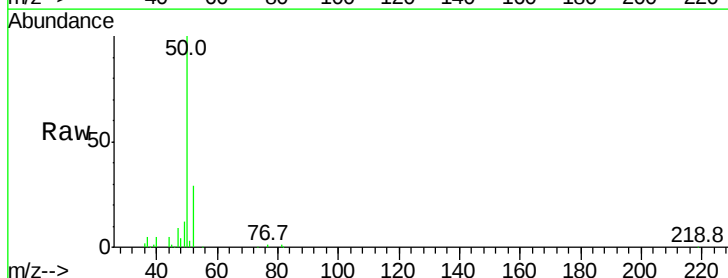
Acq: 22 Jan 2018 14:32

Tgt Ion: 50 Resp: 84270

Ion Ratio Lower Upper

50 100

52 29.1 26.4 39.6



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0

3.27

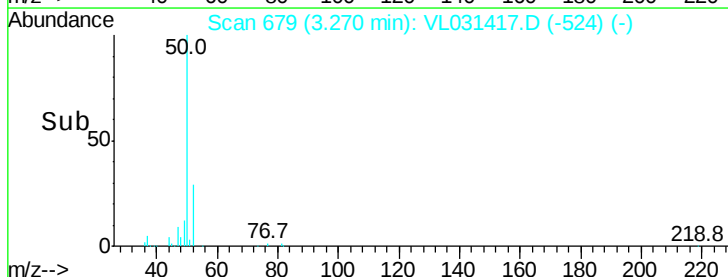
60000

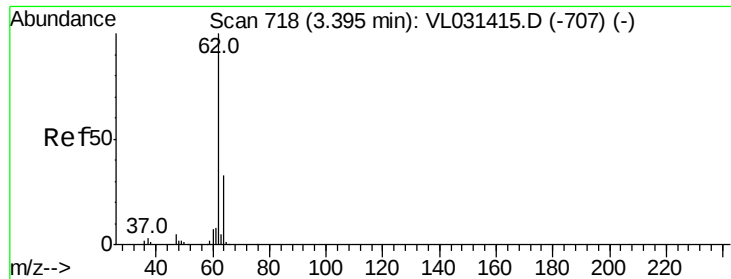
40000

20000

0

Time-->





#5

Vinyl Chloride

Concen: 0.91 ppbv

RT: 3.40 min Scan# 718

Delta R.T. -0.00 min

Lab File: VL031417.D

Acq: 22 Jan 2018 14:32

Instrument :

MSVOA_L

ClientSampleId :

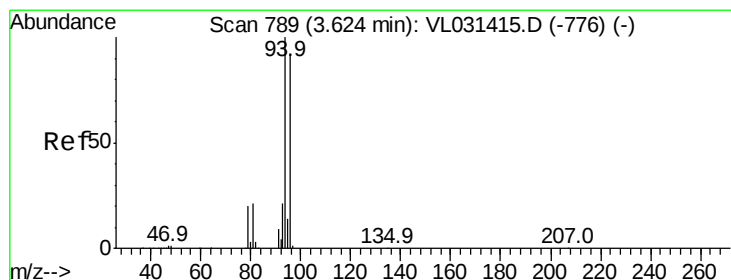
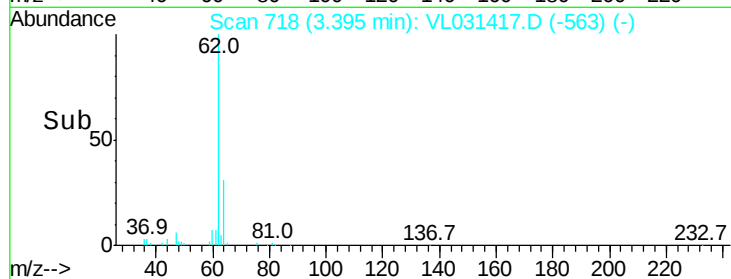
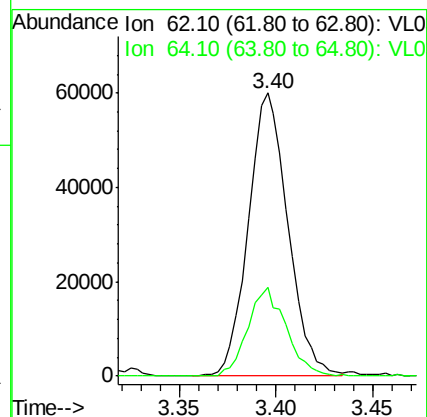
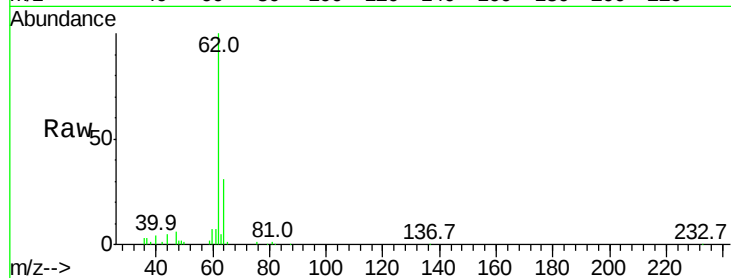
VSTDIC001

Tgt Ion: 62 Resp: 85707

Ion Ratio Lower Upper

62 100

64 31.2 25.4 38.0



#6

Bromomethane

Concen: 0.97 ppbv

RT: 3.63 min Scan# 790

Delta R.T. 0.00 min

Lab File: VL031417.D

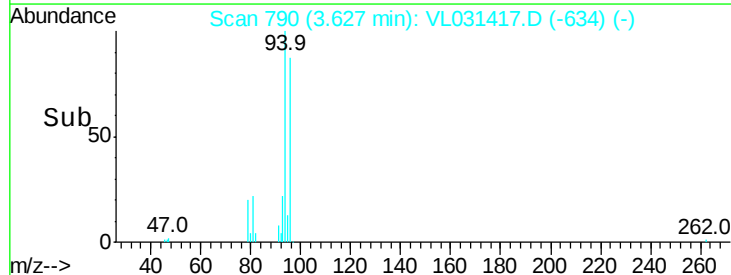
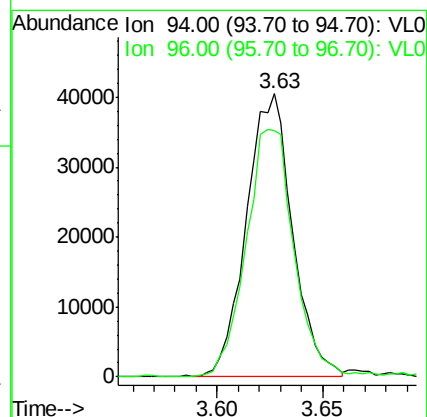
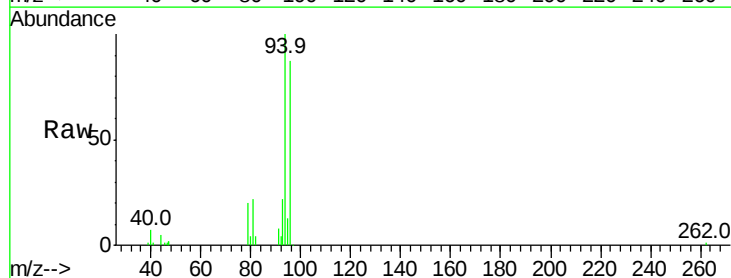
Acq: 22 Jan 2018 14:32

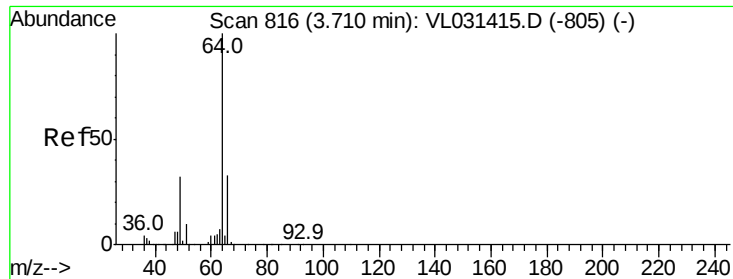
Tgt Ion: 94 Resp: 60973

Ion Ratio Lower Upper

94 100

96 87.4 75.1 112.7





#7

Chloroethane

Concen: 0.94 ppbv

RT: 3.71 min Scan# 816

Delta R.T. -0.00 min

Lab File: VL031417.D

Acq: 22 Jan 2018 14:32

Instrument :

MSVOA_L

ClientSampleId :

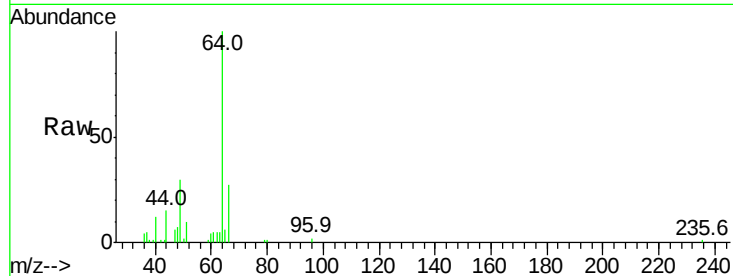
VSTDIC001

Tgt Ion: 64 Resp: 34486

Ion Ratio Lower Upper

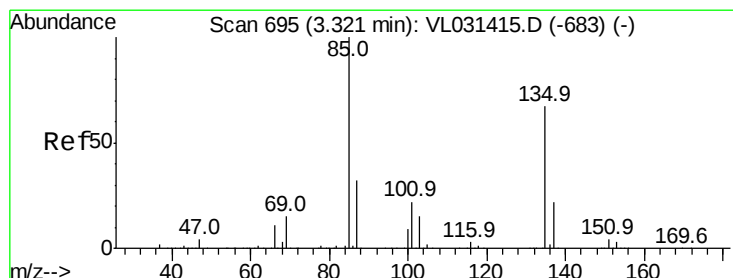
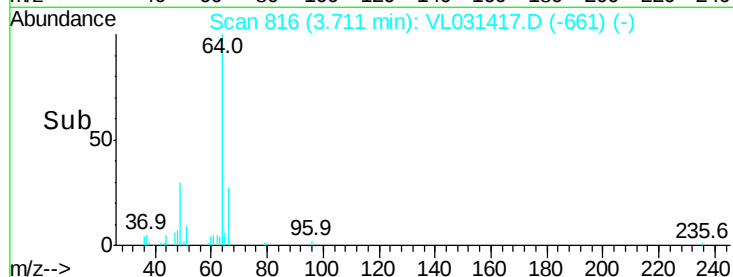
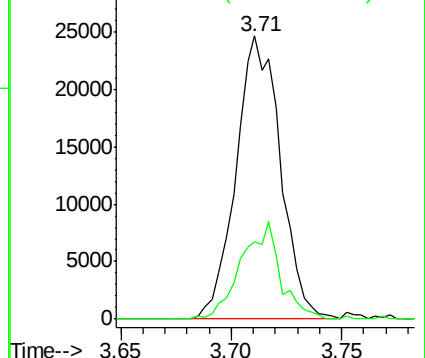
64 100

66 27.4 26.3 39.5



Abundance Ion 64.10 (63.80 to 64.80): VL0

Ion 66.10 (65.80 to 66.80): VL0



#8

Dichlorotetrafluoroethane

Concen: 0.98 ppbv

RT: 3.32 min Scan# 695

Delta R.T. -0.00 min

Lab File: VL031417.D

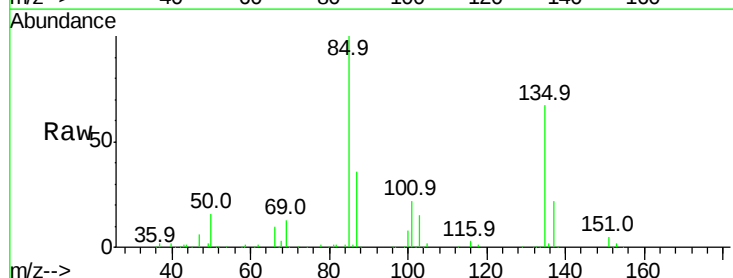
Acq: 22 Jan 2018 14:32

Tgt Ion: 85 Resp: 236862

Ion Ratio Lower Upper

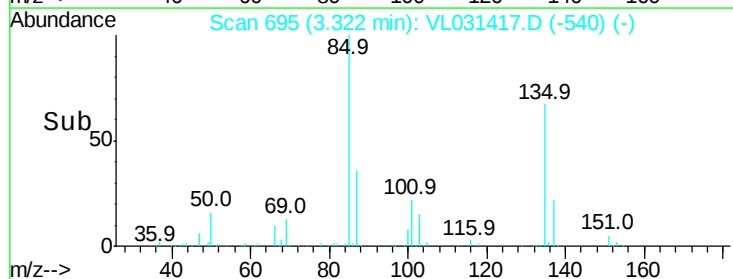
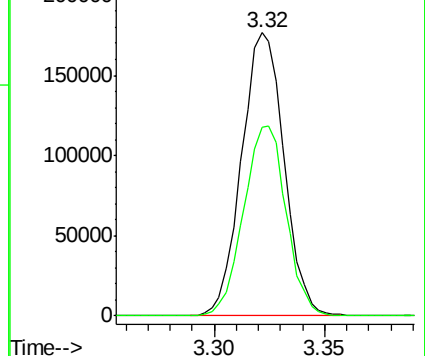
85 100

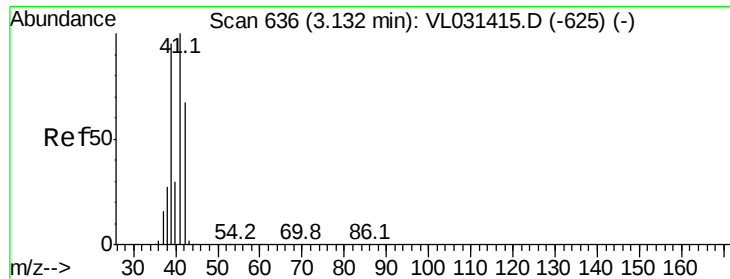
135 67.5 53.3 79.9



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 135.00 (134.70 to 135.70): V





#9

Propene

Concen: 0.87 ppbv

RT: 3.14 min Scan# 637

Delta R.T. -0.00 min

Lab File: VL031417.D

Acq: 22 Jan 2018 14:32

Instrument :

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ClientSampleId :

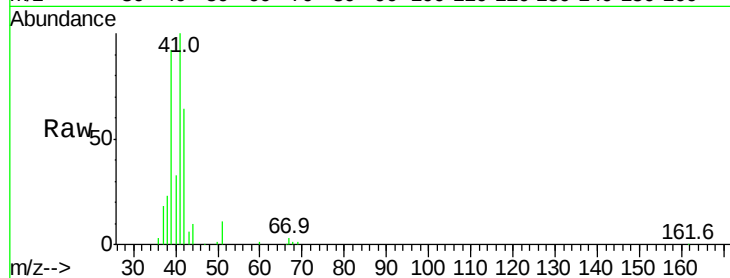
VSTDIC001

Tgt Ion: 41 Resp: 64233

Ion Ratio Lower Upper

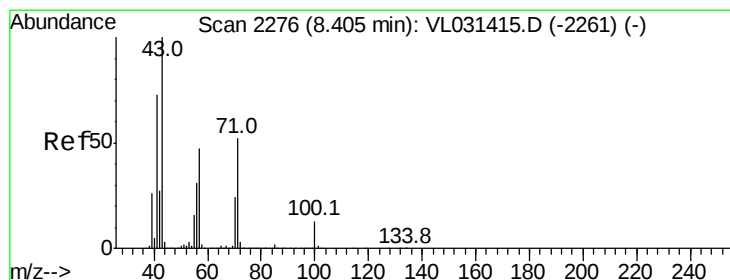
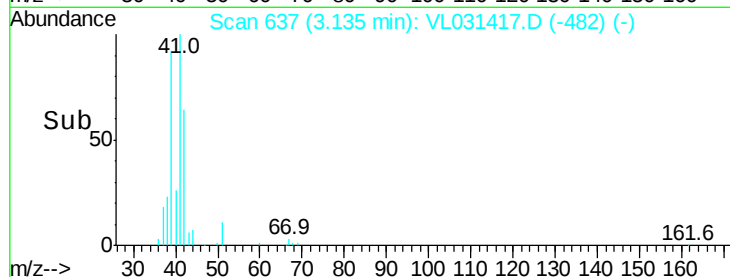
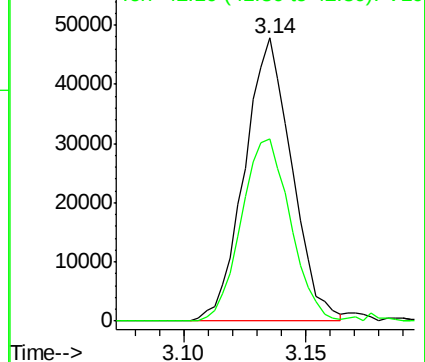
41 100

42 67.6 54.6 82.0



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0



#10

Heptane

Concen: 0.89 ppbv

RT: 8.40 min Scan# 2276

Delta R.T. -0.00 min

Lab File: VL031417.D

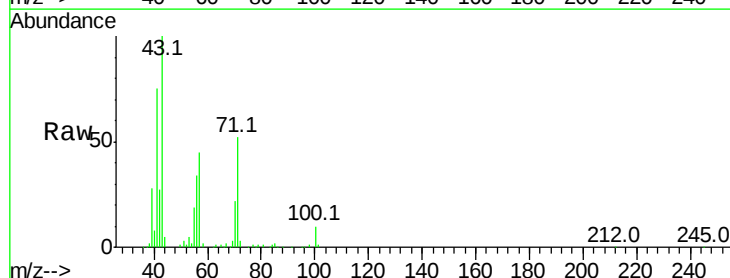
Acq: 22 Jan 2018 14:32

Tgt Ion: 43 Resp: 198345

Ion Ratio Lower Upper

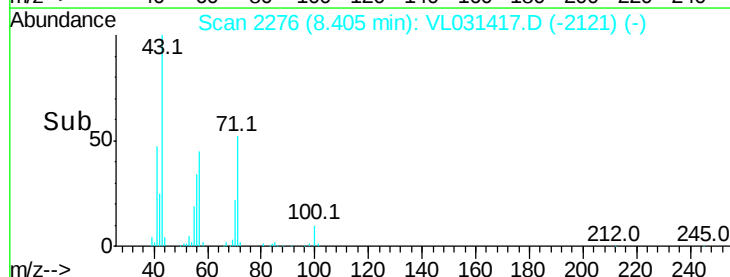
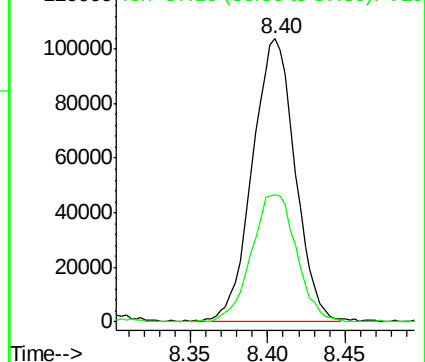
43 100

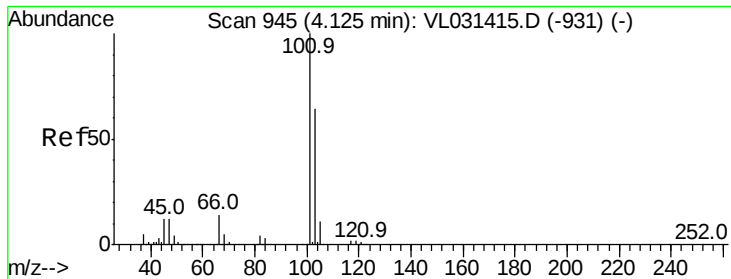
57 47.8 39.7 59.5



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 57.10 (56.80 to 57.80): VL0

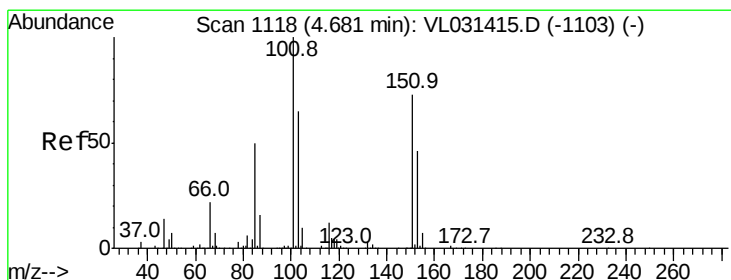
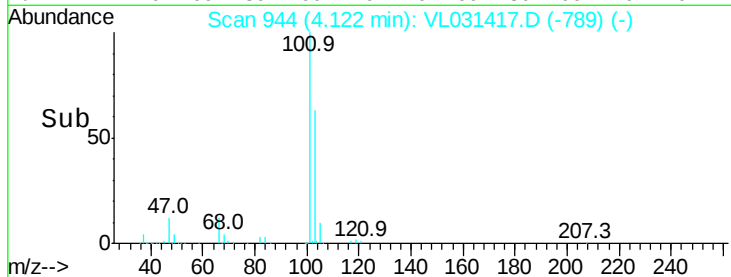
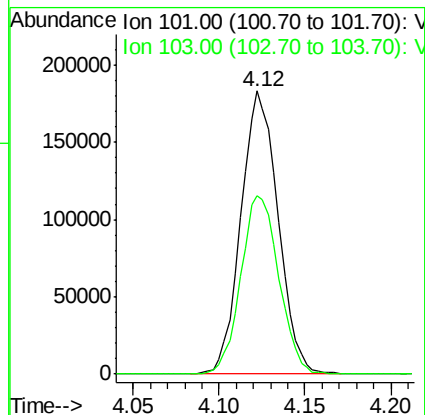
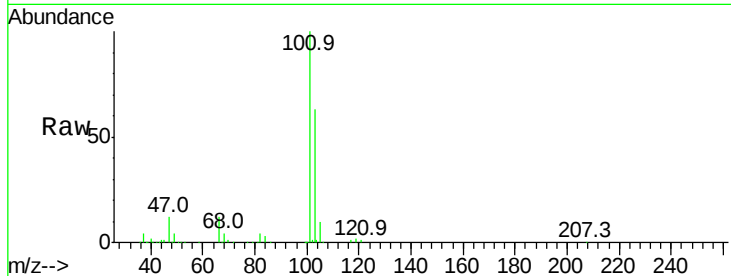




#11
 Trichlorofluoromethane
 Concen: 0.98 ppbv
 RT: 4.12 min Scan# 944
 Delta R.T. -0.00 min
 Lab File: VL031417.D
 Acq: 22 Jan 2018 14:32

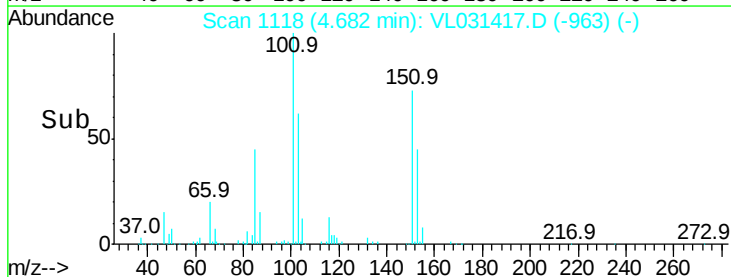
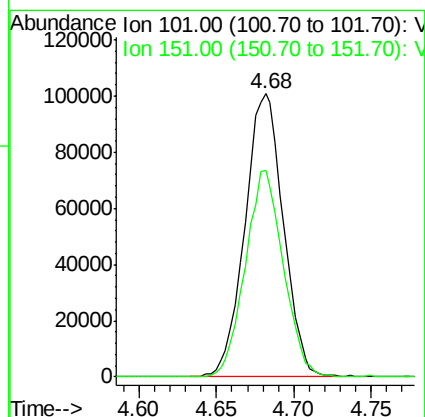
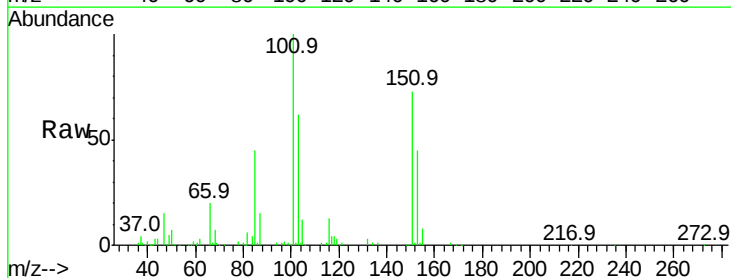
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

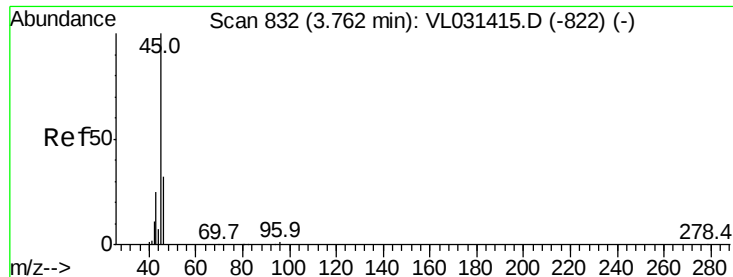
Tgt Ion:101 Resp: 275367
 Ion Ratio Lower Upper
 101 100
 103 63.2 53.1 79.7



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 0.98 ppbv
 RT: 4.68 min Scan# 1118
 Delta R.T. -0.00 min
 Lab File: VL031417.D
 Acq: 22 Jan 2018 14:32

Tgt Ion:101 Resp: 174655
 Ion Ratio Lower Upper
 101 100
 151 72.0 58.1 87.1





#13

Ethanol

Concen: 0.36 ppbv

RT: 3.77 min Scan# 834

Delta R.T. 0.00 min

Lab File: VL031417.D

Acq: 22 Jan 2018 14:32

Instrument :

MSVOA_L

ClientSampleId :

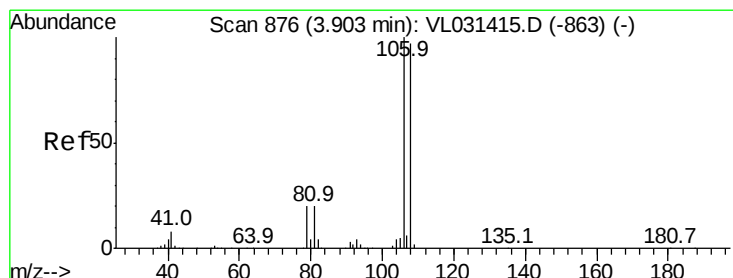
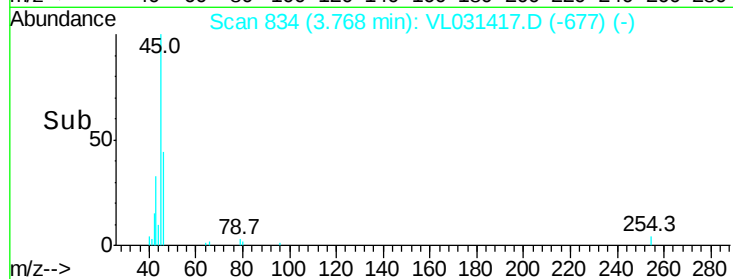
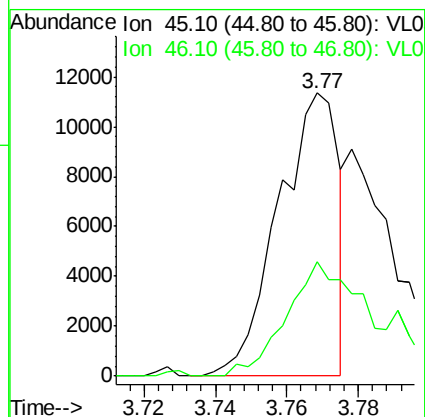
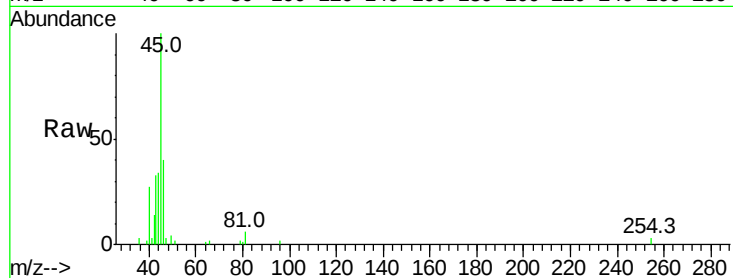
VSTDIC001

Tgt Ion: 45 Resp: 13265

Ion Ratio Lower Upper

45 100

46 66.7 14.9 59.5#



#14

Bromoethene

Concen: 0.88 ppbv

RT: 3.90 min Scan# 875

Delta R.T. -0.01 min

Lab File: VL031417.D

Acq: 22 Jan 2018 14:32

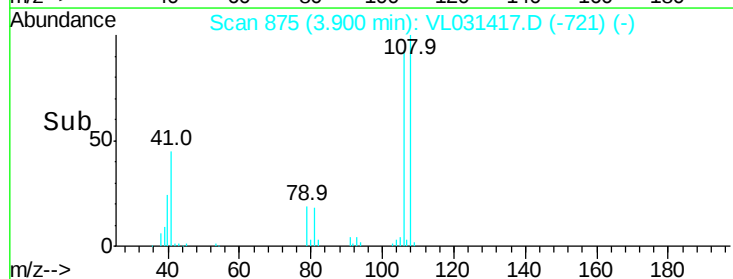
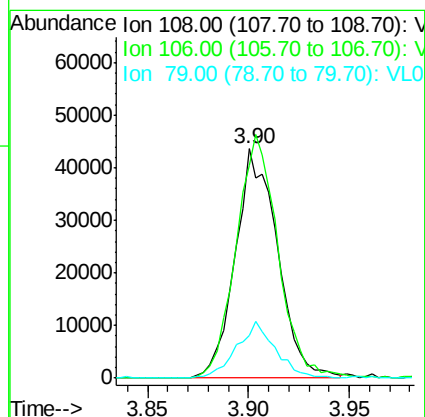
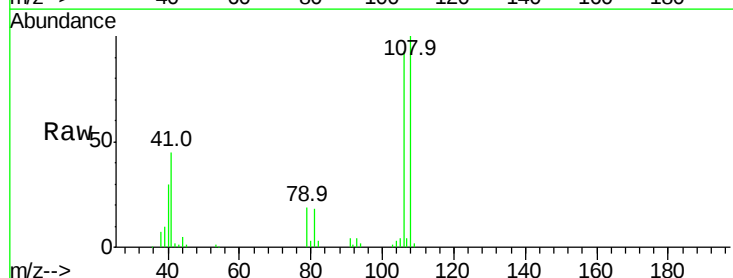
Tgt Ion: 108 Resp: 64124

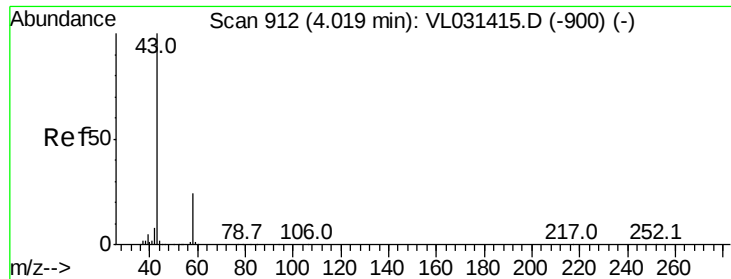
Ion Ratio Lower Upper

108 100

106 106.2 85.3 127.9

79 23.2 16.8 25.2





#15

Acetone

Concen: 0.85 ppbv

RT: 4.03 min Scan# 914

Delta R.T. 0.00 min

Lab File: VL031417.D

Acq: 22 Jan 2018 14:32

Instrument :

MSVOA_L

ClientSampleId :

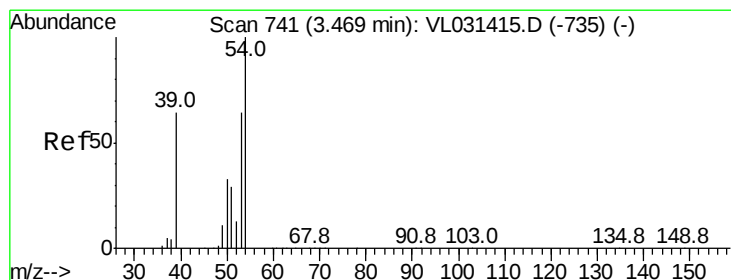
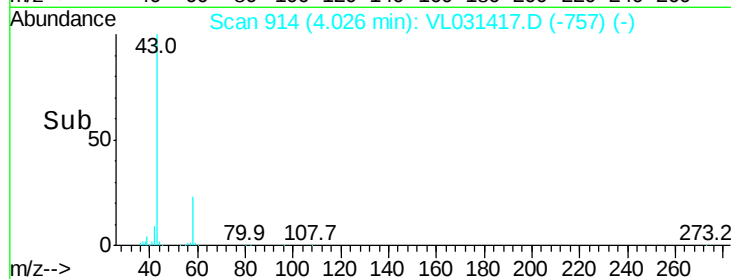
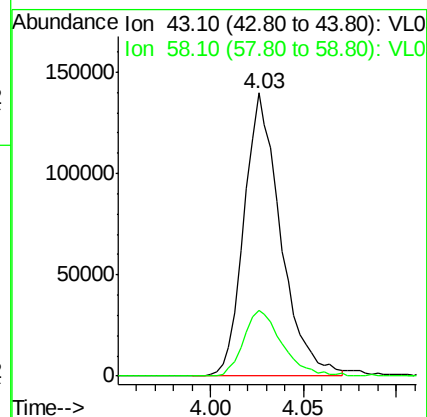
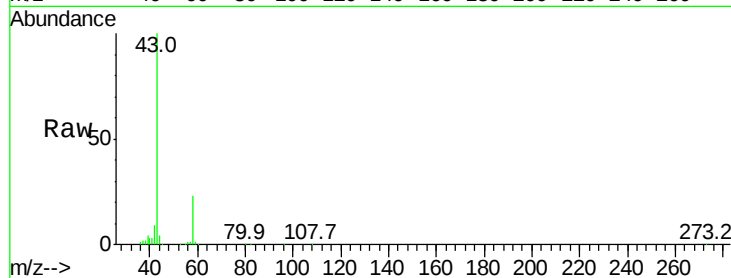
VSTDIC001

Tgt Ion: 43 Resp: 192853

Ion Ratio Lower Upper

43 100

58 24.9 19.4 29.2



#16

1,3-Butadiene

Concen: 0.98 ppbv

RT: 3.47 min Scan# 741

Delta R.T. -0.00 min

Lab File: VL031417.D

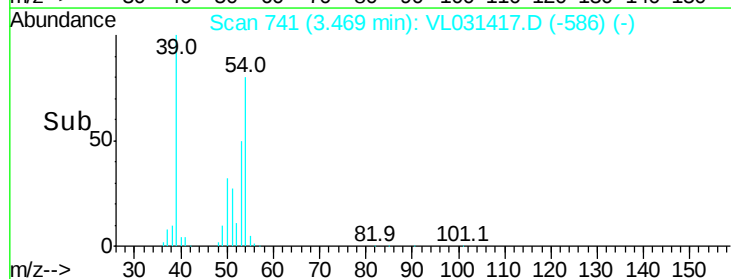
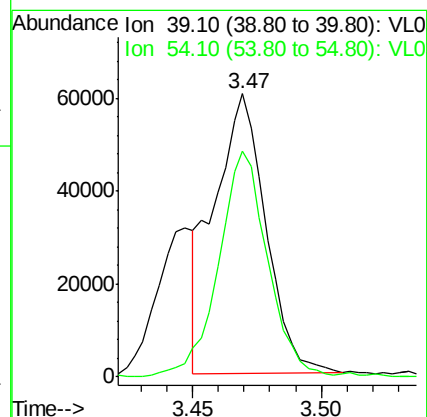
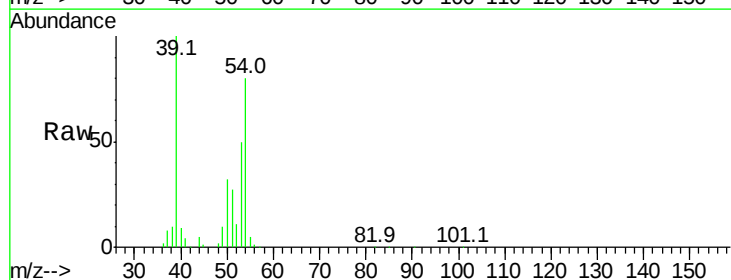
Acq: 22 Jan 2018 14:32

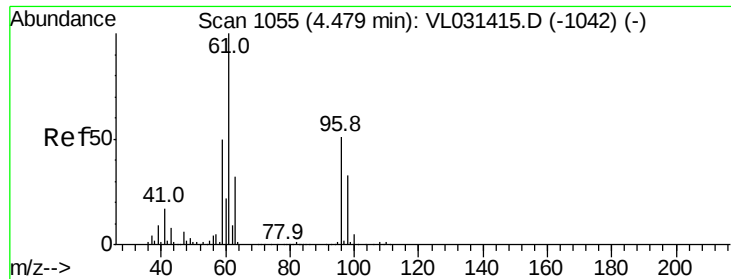
Tgt Ion: 39 Resp: 83281

Ion Ratio Lower Upper

39 100

54 77.9 67.0 100.6





#17

tert-Butyl alcohol

Concen: 0.88 ppbv

RT: 4.50 min Scan# 1060

Delta R.T. 0.01 min

Lab File: VL031417.D

Acq: 22 Jan 2018 14:32

Instrument :

MSVOA_L

ClientSampleId :

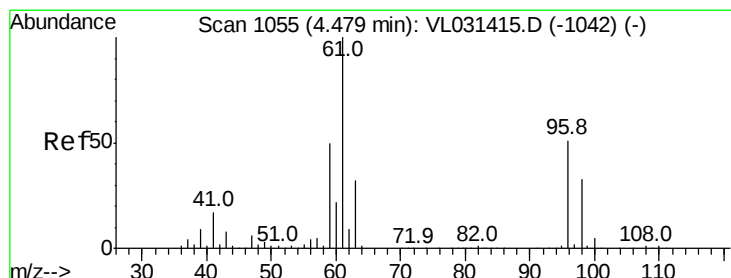
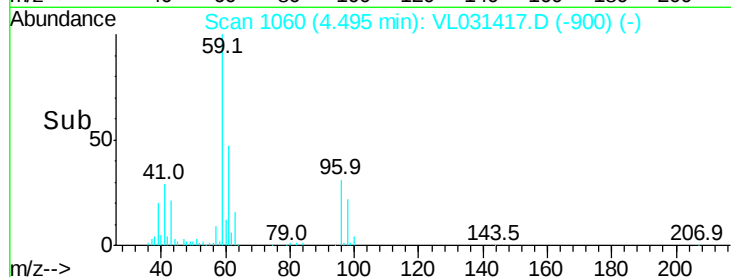
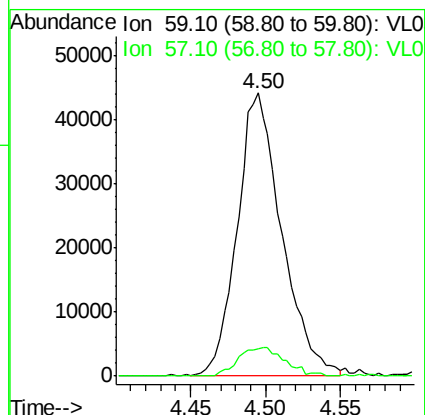
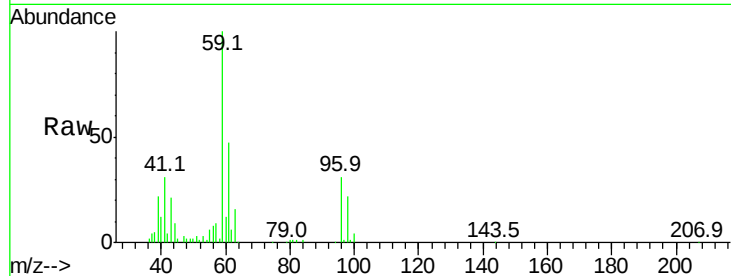
VSTDIC001

Tgt Ion: 59 Resp: 91295

Ion Ratio Lower Upper

59 100

57 10.8 8.6 13.0



#18

1,1-Dichloroethene

Concen: 0.92 ppbv

RT: 4.48 min Scan# 1054

Delta R.T. -0.00 min

Lab File: VL031417.D

Acq: 22 Jan 2018 14:32

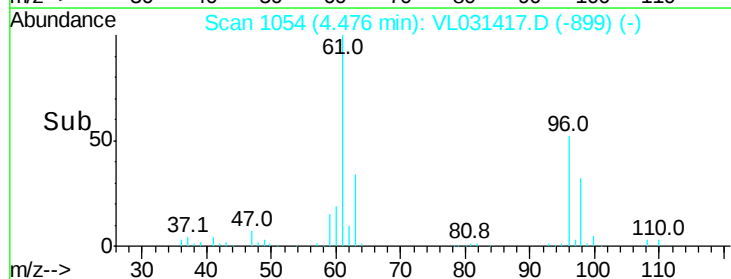
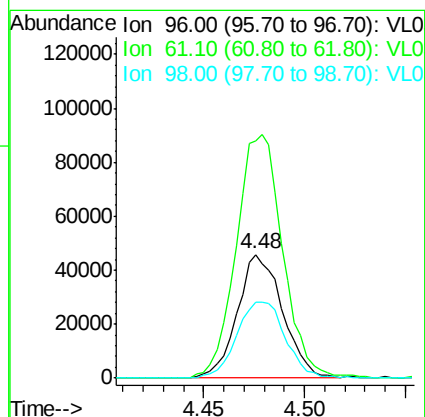
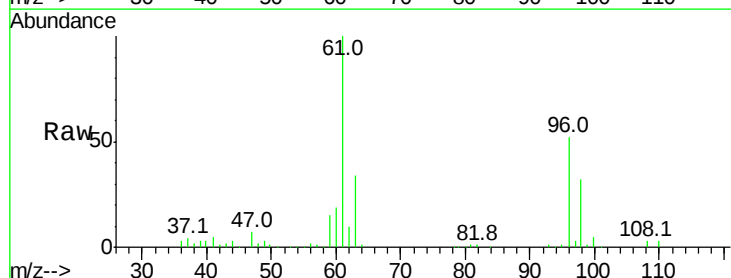
Tgt Ion: 96 Resp: 71794

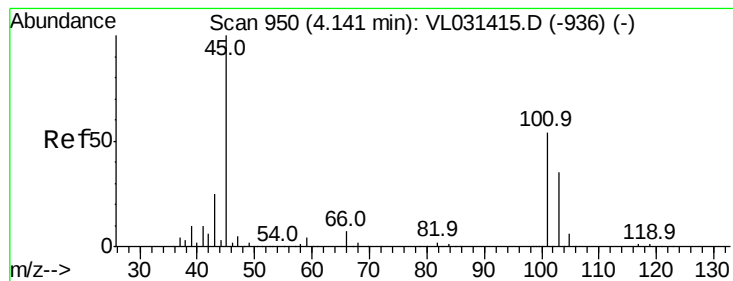
Ion Ratio Lower Upper

96 100

61 191.5 161.6 242.4

98 61.2 49.6 74.4





#19

Isopropyl Alcohol

Concen: 0.78 ppbv

RT: 4.15 min Scan# 953

Delta R.T. 0.01 min

Lab File: VL031417.D

Acq: 22 Jan 2018 14:32

Instrument :

MSVOA_L

ClientSampleId :

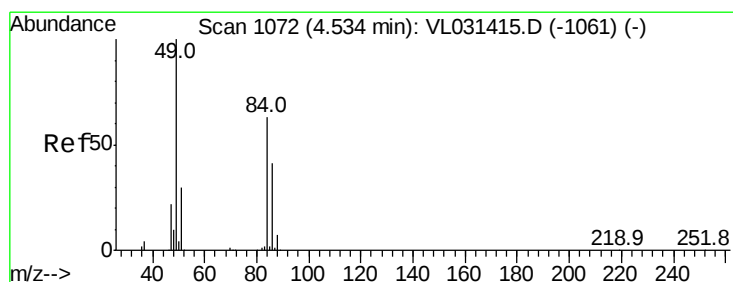
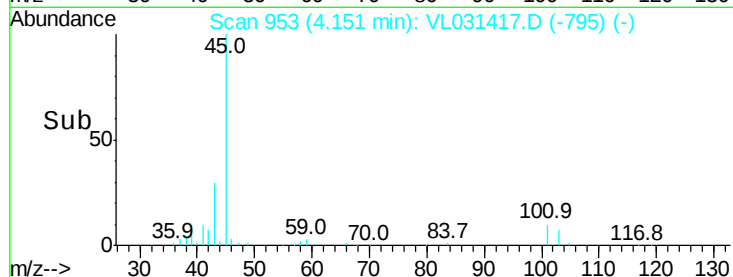
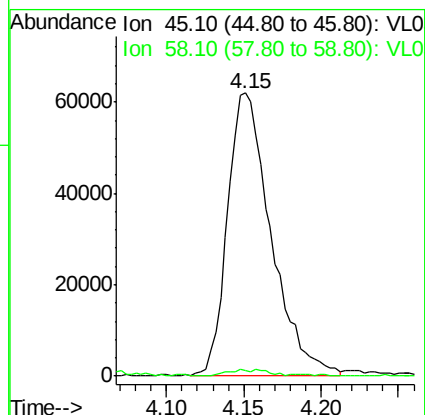
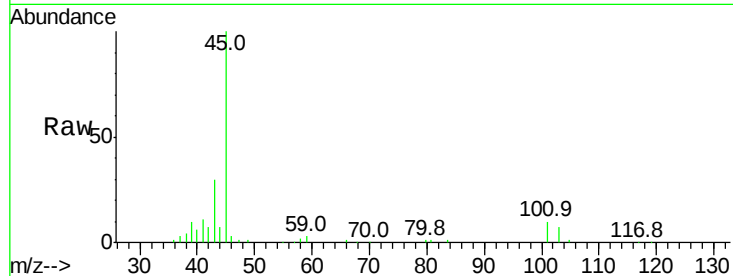
VSTDIC001

Tgt Ion: 45 Resp: 120268

Ion Ratio Lower Upper

45 100

58 3.0 1.0 1.4#



#20

Methylene Chloride

Concen: 0.90 ppbv

RT: 4.53 min Scan# 1072

Delta R.T. -0.00 min

Lab File: VL031417.D

Acq: 22 Jan 2018 14:32

Tgt Ion: 84 Resp: 73629

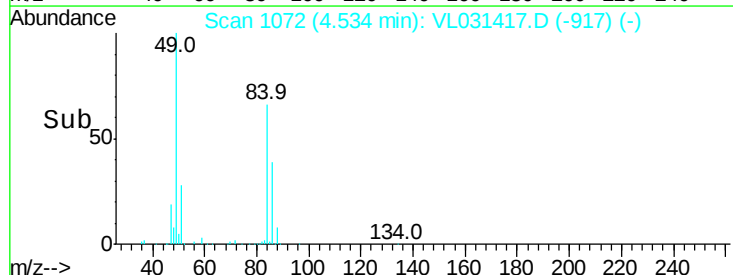
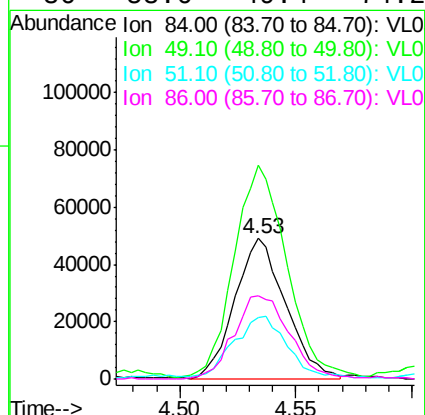
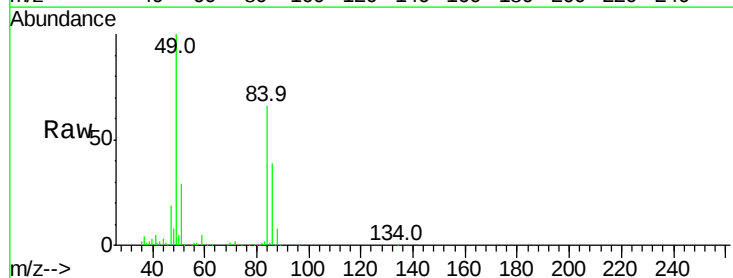
Ion Ratio Lower Upper

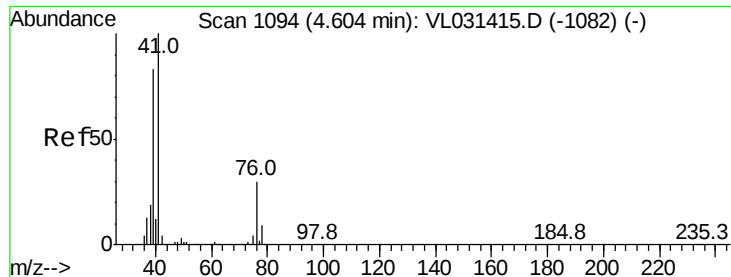
84 100

49 149.8 123.4 185.0

51 42.8 35.6 53.4

86 58.6 49.4 74.2

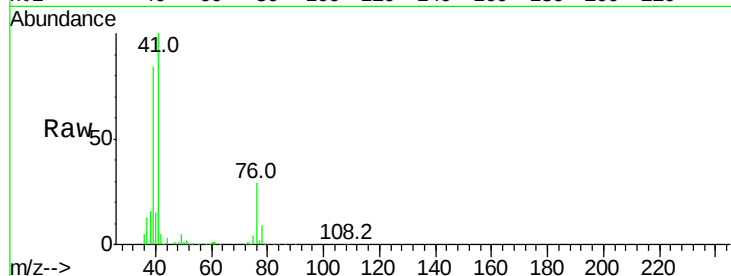




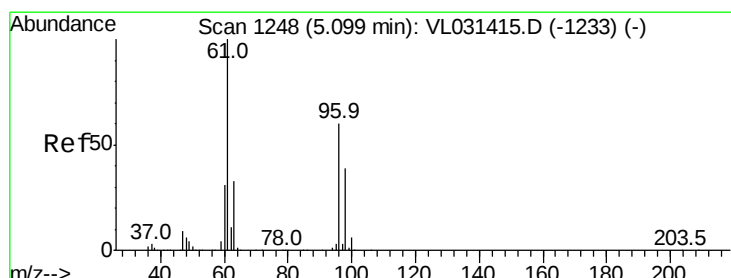
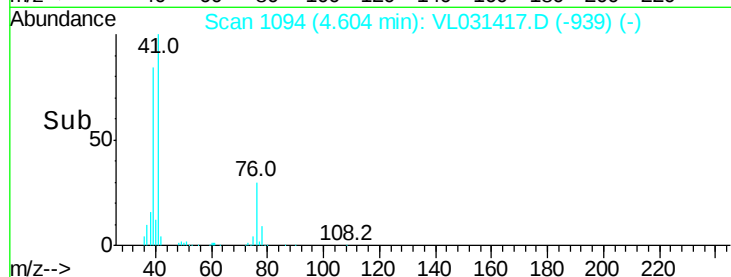
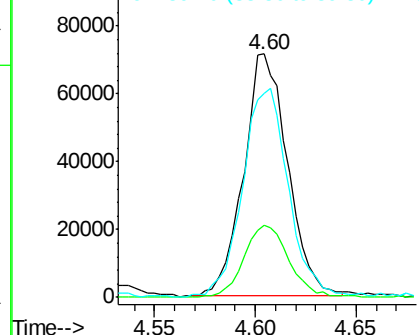
#21
 Allyl Chloride
 Concen: 0.89 ppbv
 RT: 4.60 min Scan# 1094
 Delta R.T. -0.00 min
 Lab File: VL031417.D
 Acq: 22 Jan 2018 14:32

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

Tgt Ion: 41 Resp: 108652
 Ion Ratio Lower Upper
 41 100
 76 30.5 24.2 36.2
 39 91.8 69.8 104.8

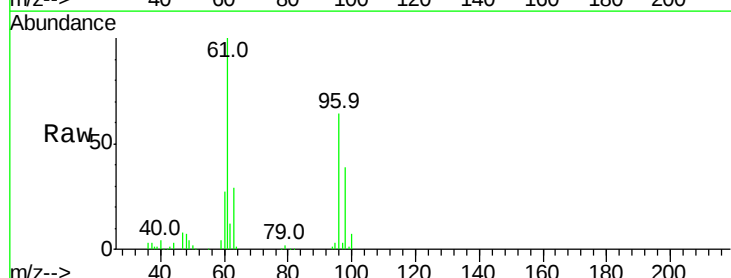


Abundance Ion 41.10 (40.80 to 41.80): VL0
 Ion 76.10 (75.80 to 76.80): VL0
 Ion 39.10 (38.80 to 39.80): VL0

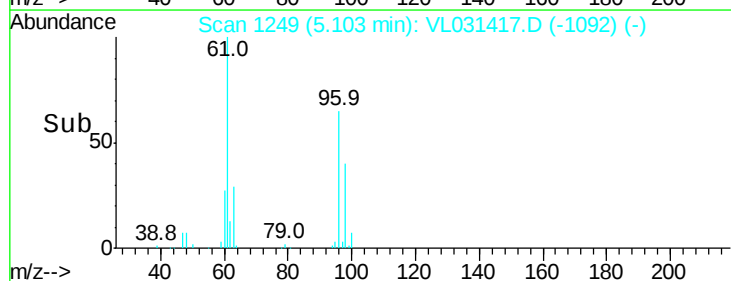
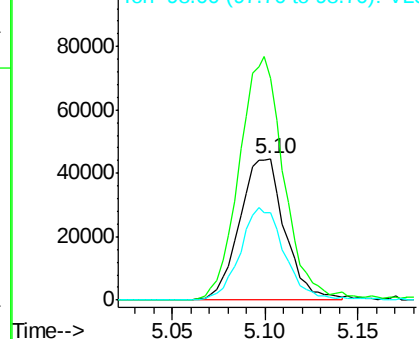


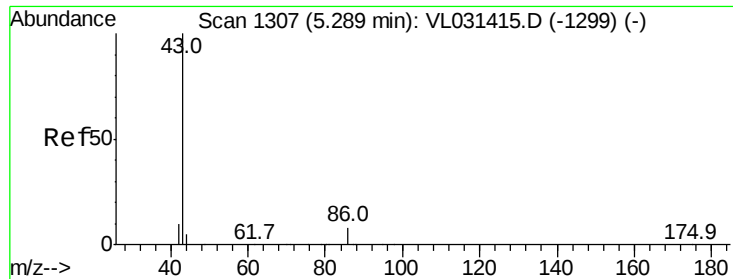
#22
 trans-1,2-Dichloroethene
 Concen: 0.91 ppbv
 RT: 5.10 min Scan# 1249
 Delta R.T. 0.00 min
 Lab File: VL031417.D
 Acq: 22 Jan 2018 14:32

Tgt Ion: 96 Resp: 75440
 Ion Ratio Lower Upper
 96 100
 61 157.1 135.0 202.4
 98 61.6 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: 0.79 ppbv

RT: 5.29 min Scan# 1307

Delta R.T. -0.00 min

Lab File: VL031417.D

Acq: 22 Jan 2018 14:32

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

Tgt Ion: 43 Resp: 203515

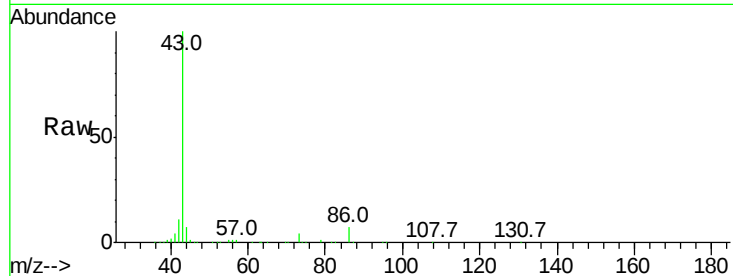
Ion Ratio Lower Upper

43 100

86 6.4 5.6 8.4

42 10.3 8.6 12.8

44 6.5 4.2 6.4#

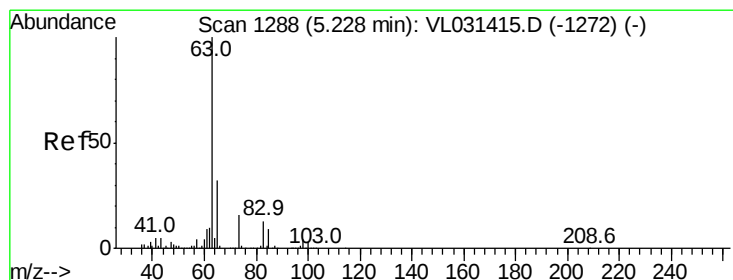
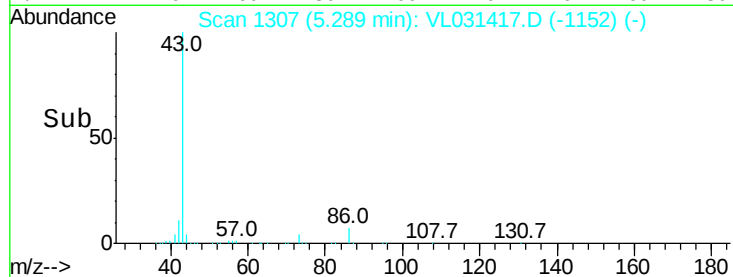
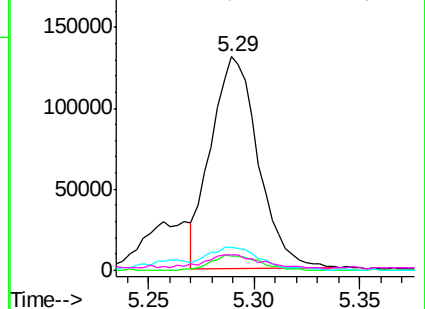


Abundance Ion 43.10 (42.80 to 43.80): VL0

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: 0.93 ppbv

RT: 5.22 min Scan# 1287

Delta R.T. -0.01 min

Lab File: VL031417.D

Acq: 22 Jan 2018 14:32

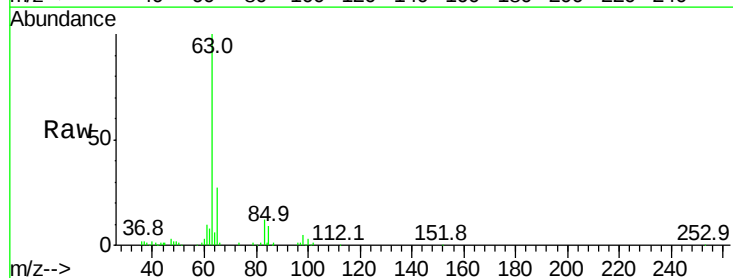
Tgt Ion: 63 Resp: 202097

Ion Ratio Lower Upper

63 100

98 4.9 2.4 7.1

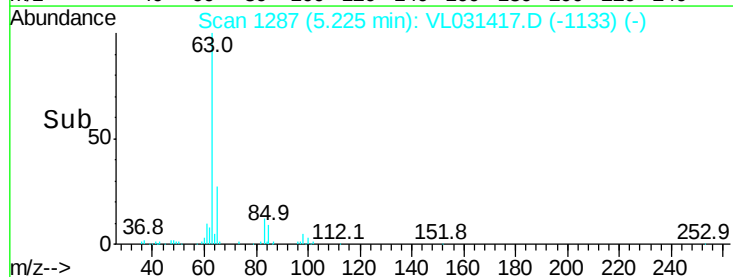
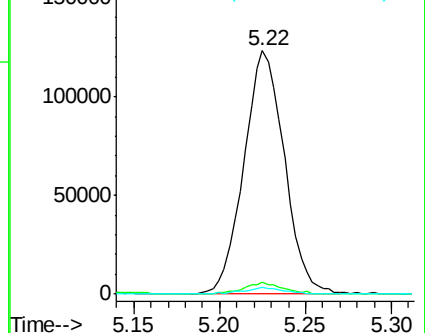
100 3.0 1.3 3.9

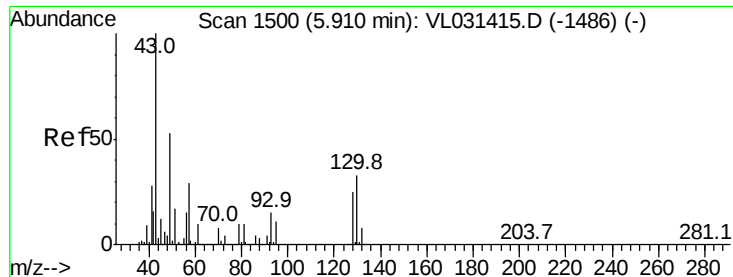


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

Ion 100.00 (99.70 to 100.70): VL0





#25

Ethyl Acetate

Concen: 0.86 ppbv

RT: 5.92 min Scan# 1502

Delta R.T. 0.00 min

Lab File: VL031417.D

Acq: 22 Jan 2018 14:32

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

Tgt Ion: 43 Resp: 331263

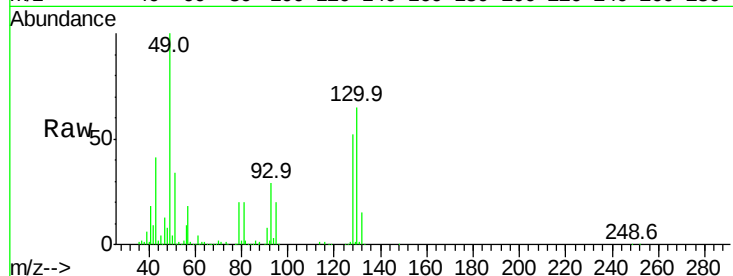
Ion Ratio Lower Upper

43 100

45 10.5 7.8 11.6

61 9.6 7.0 10.6

70 6.6 5.4 8.0

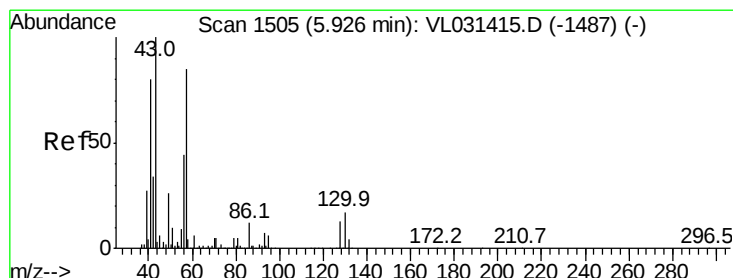
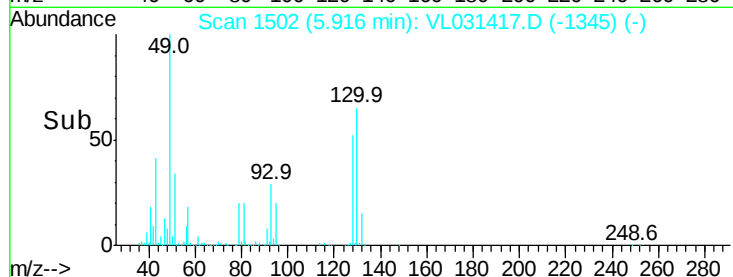
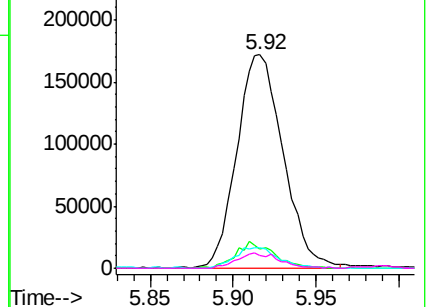


Abundance Ion 43.10 (42.80 to 43.80): VL0

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: 0.93 ppbv

RT: 5.92 min Scan# 1504

Delta R.T. -0.00 min

Lab File: VL031417.D

Acq: 22 Jan 2018 14:32

Tgt Ion: 57 Resp: 149673

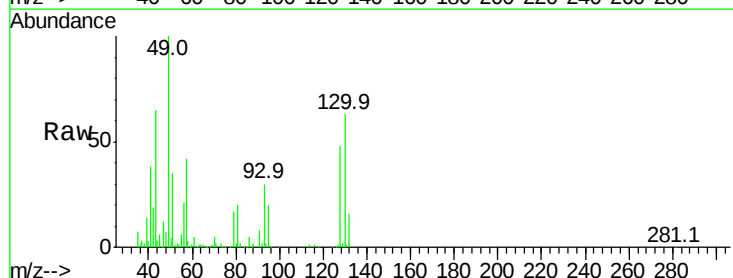
Ion Ratio Lower Upper

57 100

41 102.2 77.1 115.7

43 225.9 180.7 271.1

56 53.5 42.2 63.2

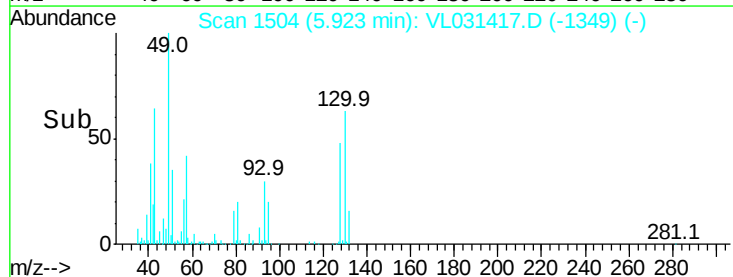
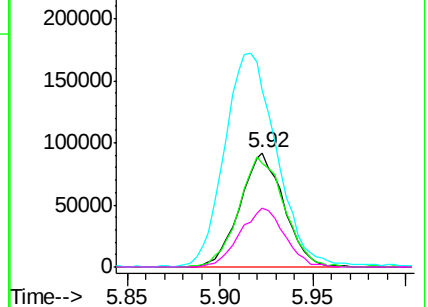


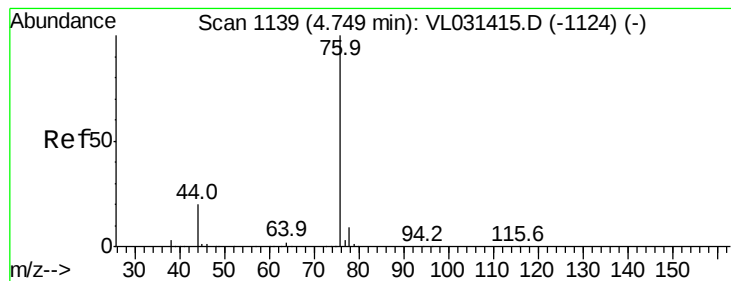
Abundance Ion 57.10 (56.80 to 57.80): VL0

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





#27

Carbon Disulfide

Concen: 0.88 ppbv

RT: 4.75 min Scan# 1140

Delta R.T. 0.00 min

Lab File: VL031417.D

Acq: 22 Jan 2018 14:32

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

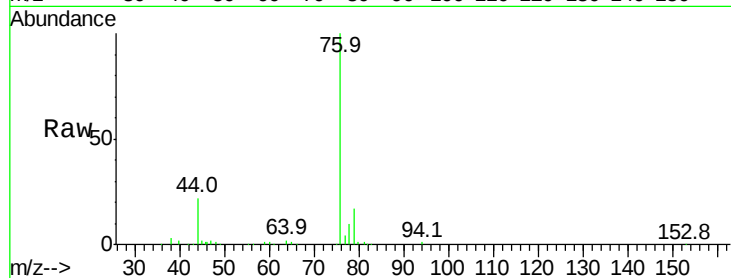
Tgt Ion: 76 Resp: 189743

Ion Ratio Lower Upper

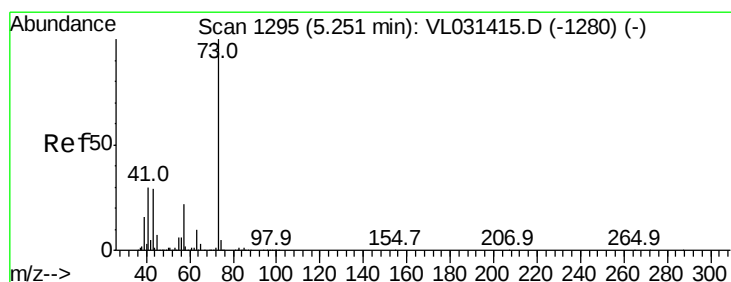
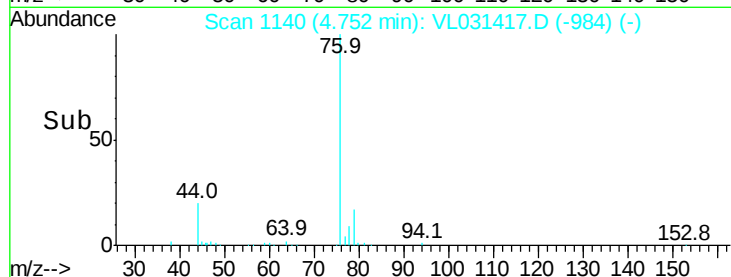
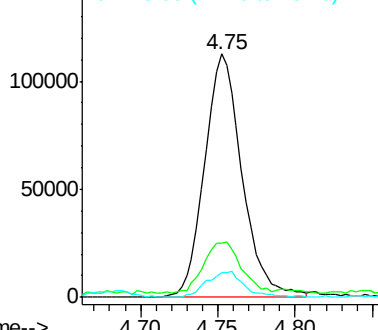
76 100

44 22.0 16.7 25.1

78 10.8 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: 0.87 ppbv

RT: 5.26 min Scan# 1297

Delta R.T. 0.01 min

Lab File: VL031417.D

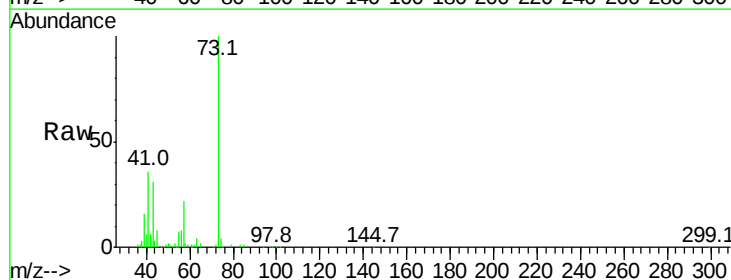
Acq: 22 Jan 2018 14:32

Tgt Ion: 73 Resp: 171439

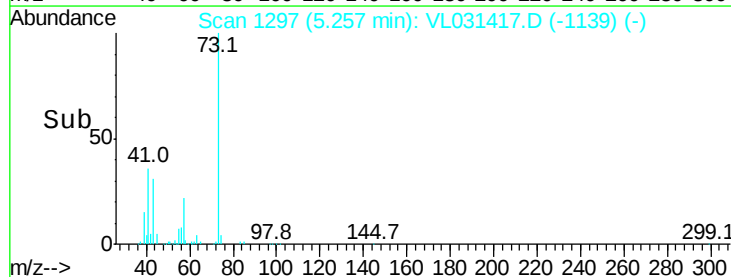
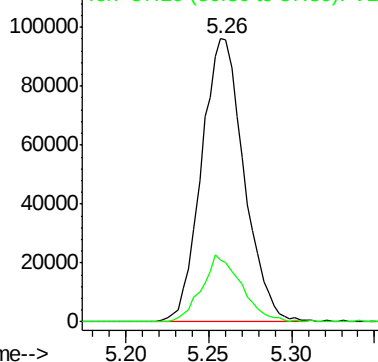
Ion Ratio Lower Upper

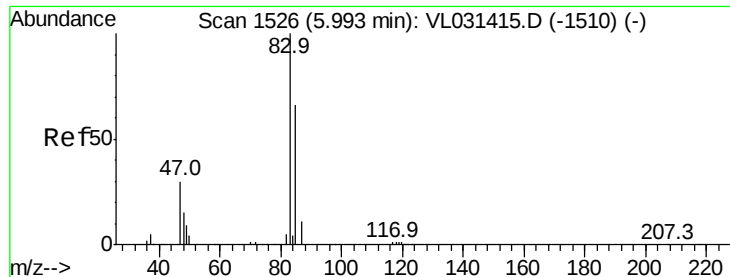
73 100

57 22.1 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: 0.93 ppbv

RT: 5.99 min Scan# 1524

Delta R.T. -0.01 min

Lab File: VL031417.D

Acq: 22 Jan 2018 14:32

Instrument :

MSVOA_L

ClientSampleId :

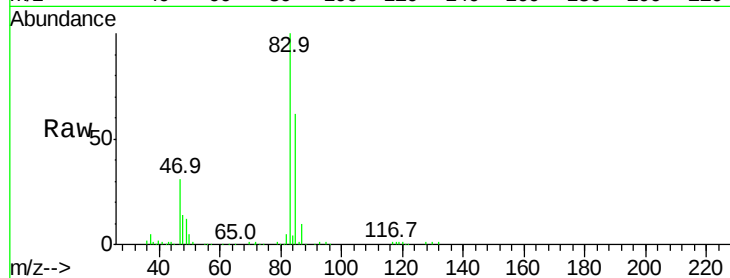
VSTDIC001

Tgt Ion: 83 Resp: 258381

Ion Ratio Lower Upper

83 100

85 61.8 51.3 76.9



Abundance Ion 83.00 (82.70 to 83.70): VL0

Ion 85.00 (84.70 to 85.70): VL0

150000

100000

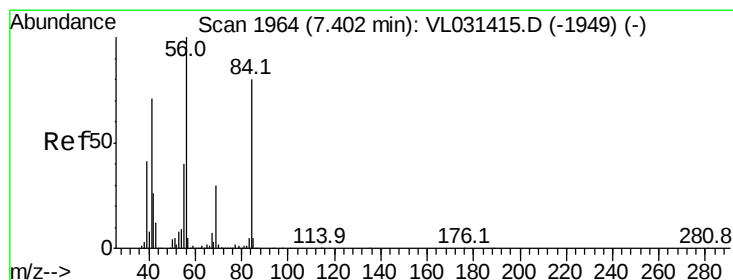
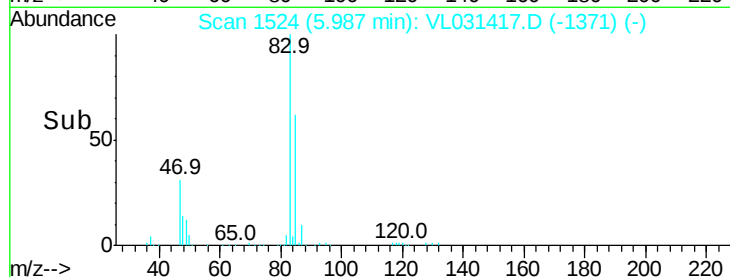
50000

0

5.99

5.90 5.95 6.00 6.05

Time-->



#30

Cyclohexane

Concen: 0.85 ppbv

RT: 7.40 min Scan# 1964

Delta R.T. -0.00 min

Lab File: VL031417.D

Acq: 22 Jan 2018 14:32

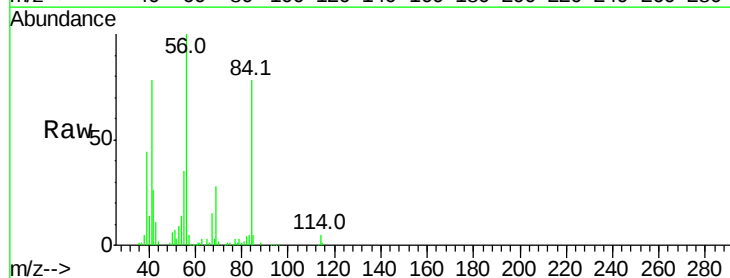
Tgt Ion: 84 Resp: 110435

Ion Ratio Lower Upper

84 100

56 134.6 109.0 163.4

41 99.7 73.3 109.9



Abundance Ion 84.20 (83.90 to 84.90): VL0

Ion 56.10 (55.80 to 56.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

100000

80000

60000

40000

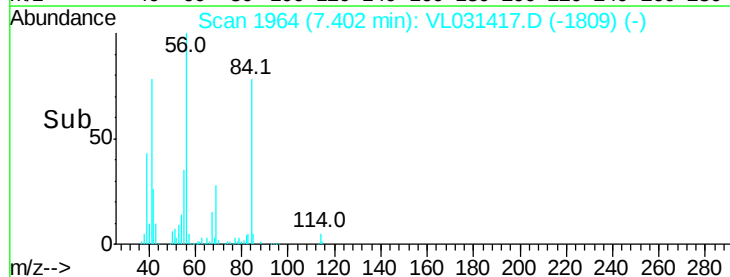
20000

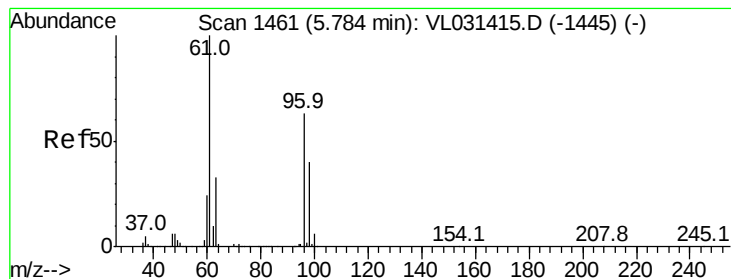
0

7.40

7.35 7.40 7.45

Time-->





#31

cis-1,2-Dichloroethene

Concen: 0.87 ppbv

RT: 5.78 min Scan# 1460

Delta R.T. -0.01 min

Lab File: VL031417.D

Acq: 22 Jan 2018 14:32

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

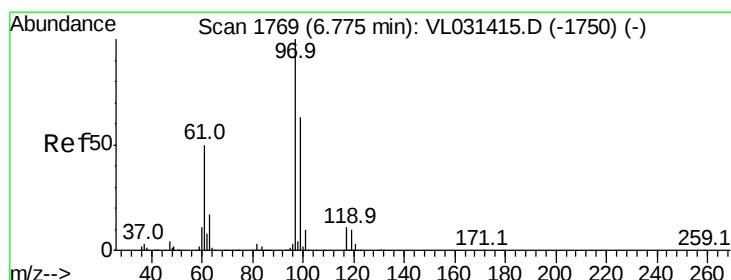
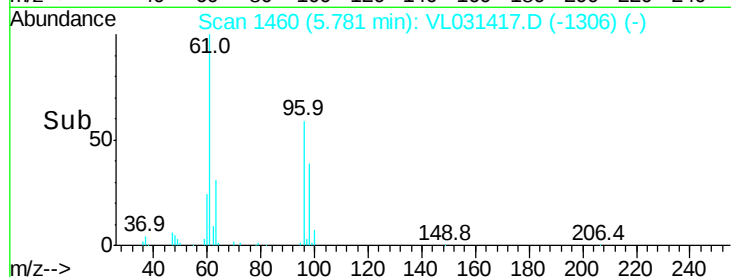
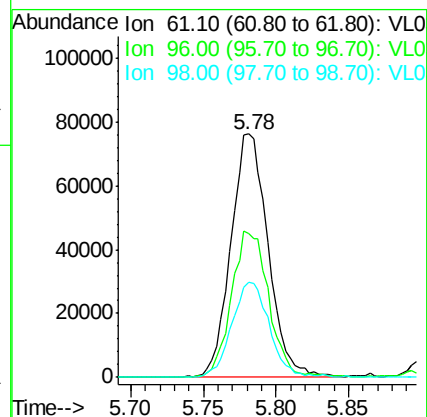
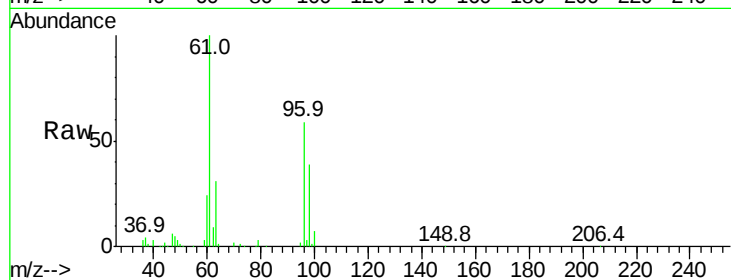
Tgt Ion: 61 Resp: 136171

Ion Ratio Lower Upper

61 100

96 58.8 51.3 76.9

98 39.0 33.6 50.4



#32

1,1,1-Trichloroethane

Concen: 0.89 ppbv

RT: 6.77 min Scan# 1767

Delta R.T. -0.01 min

Lab File: VL031417.D

Acq: 22 Jan 2018 14:32

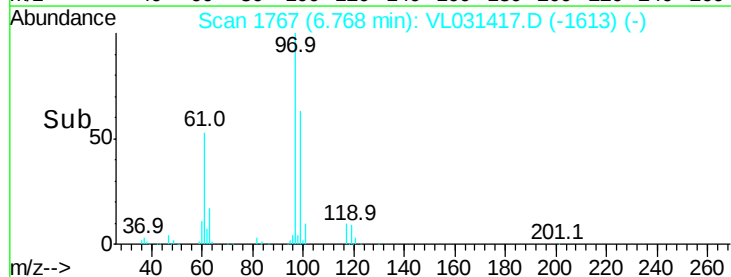
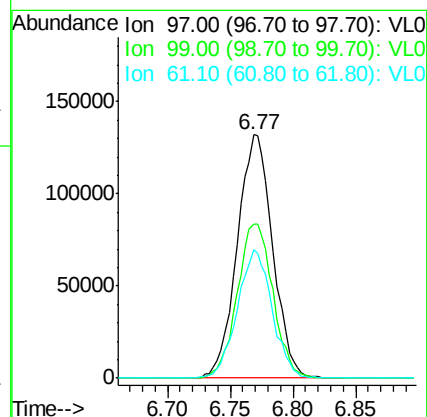
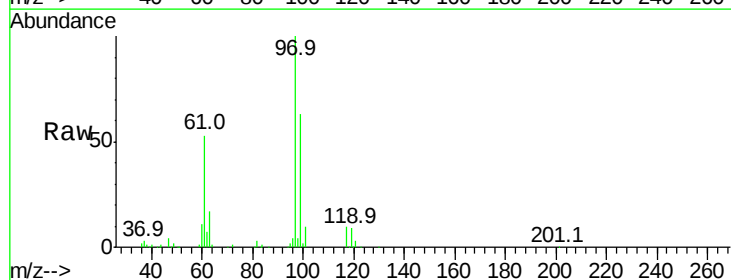
Tgt Ion: 97 Resp: 258908

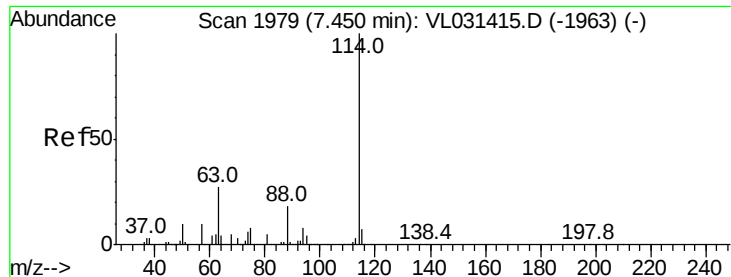
Ion Ratio Lower Upper

97 100

99 63.9 51.9 77.9

61 51.9 40.6 61.0

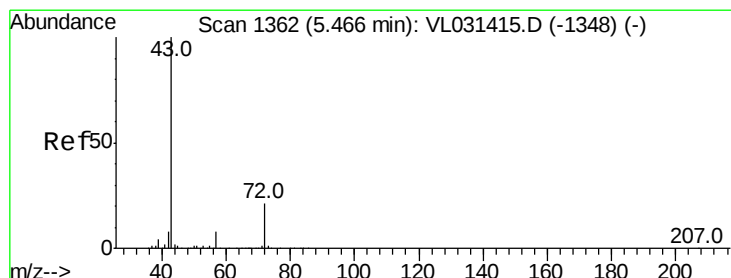
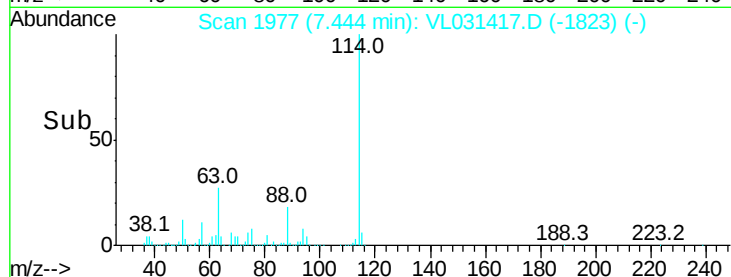
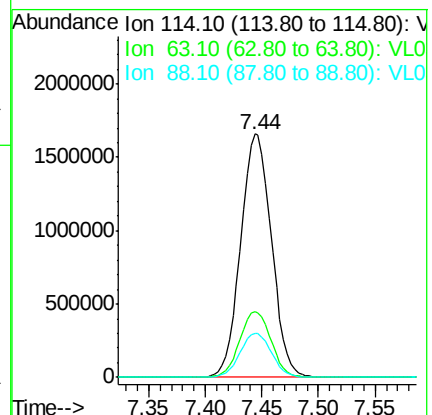
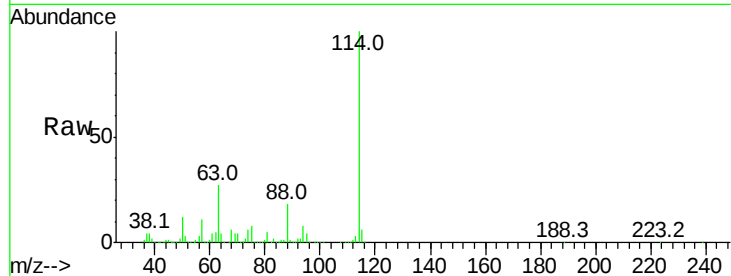




#33
 1,4-Difluorobenzene
 Concen: 10.00 ppbv
 RT: 7.44 min Scan# 1977
 Delta R.T. -0.01 min
 Lab File: VL031417.D
 Acq: 22 Jan 2018 14:32

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

Tgt Ion:114 Resp: 3160661
 Ion Ratio Lower Upper
 114 100
 63 27.6 22.5 33.7
 88 18.4 14.6 22.0



#34
 2-Butanone
 Concen: 0.76 ppbv
 RT: 5.47 min Scan# 1364
 Delta R.T. 0.00 min
 Lab File: VL031417.D
 Acq: 22 Jan 2018 14:32

Tgt Ion: 43 Resp: 198557
 Ion Ratio Lower Upper
 43 100
 72 20.8 16.8 25.2

