

Data File : VL032016.D

Acq On : 31 May 2018 16:04

Operator : SY/AP

Sample : VSTDICCC010

Misc : 400ml/MSVOA_L

ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Quant Time: Jun 01 01:58:37 2018

Quant Method : W:\HPCHEM1\MSVOA_L\METHODS\VL053118AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Jun 01 01:58:27 2018

QLast Update : Fri Jun 01 01:58:27 2018

Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.87	49	1359740	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.41	114	2627431	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.37	117	3261787	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.71	95	2066983	8.16	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	81.60%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	3.15	85	1330150	7.67	ppbv	100
3) Chlorodifluoromethane	3.08	51	1152727	9.02	ppbv	100
4) Chloromethane	3.24	50	593988	8.98	ppbv	100
5) Vinyl Chloride	3.36	62	624579	8.29	ppbv	100
6) Bromomethane	3.59	94	451647	9.18	ppbv	100
7) Chloroethane	3.68	64	263866	9.15	ppbv	100
8) Dichlorotetrafluoroethane	3.29	85	1570973	8.85	ppbv	100
9) Propene	3.11	41	443098	9.56	ppbv	100
10) Heptane	8.37	43	1541165	9.56	ppbv	100
11) Trichlorofluoromethane	4.09	101	1998438	9.07	ppbv	100
12) 1,1,2-Trichlorotrifluoroet	4.65	101	1570561	10.02	ppbv	100
13) Ethanol	3.73	45	131911	7.61	ppbv	100
14) Bromoethene	3.87	108	525876	9.32	ppbv	100
15) Acetone	3.99	43	1340359	7.06	ppbv	100
16) 1,3-Butadiene	3.44	39	616936	10.04	ppbv	100
17) tert-Butyl alcohol	4.45	59	752997	9.49	ppbv	100
18) 1,1-Dichloroethene	4.44	96	665662	9.74	ppbv	100
19) Isopropyl Alcohol	4.11	45	1004680	9.49	ppbv	99
20) Methylene Chloride	4.50	84	622597	9.48	ppbv	100
21) Allyl Chloride	4.57	41	1107898	10.02	ppbv	100
22) trans-1,2-Dichloroethene	5.06	96	768752	10.11	ppbv	100
23) Vinyl Acetate	5.25	43	2229105	10.10	ppbv	100
24) 1,1-Dichloroethane	5.19	63	2002653	9.62	ppbv	100
25) Ethyl Acetate	5.87	43	3136926	9.49	ppbv	100
26) Hexane	5.88	57	1494043	9.58	ppbv	100
27) Carbon Disulfide	4.71	76	2046967	11.41	ppbv	99
28) Methyl tert-Butyl Ether	5.21	73	1918288	10.01	ppbv	100
29) Chloroform	5.95	83	2392304	9.61	ppbv	100
30) Cyclohexane	7.36	84	946036	9.19	ppbv	100
31) cis-1,2-Dichloroethene	5.75	61	1427910	9.98	ppbv	100
32) 1,1,1-Trichloroethane	6.73	97	1922814	8.50	ppbv	100
34) 2-Butanone	5.43	43	2043263	9.41	ppbv	100
35) Carbon Tetrachloride	7.25	117	2049324	9.73	ppbv	100
36) Benzene	7.12	78	2295361	9.30	ppbv	100
37) 1,2-Dichloroethane	6.52	62	1613000	9.24	ppbv	100
38) Trichloroethene	8.08	130	938784	9.95	ppbv	100
39) 1,2-Dichloropropane	7.86	63	835790	9.68	ppbv	100
40) 1,4-Dioxane	8.07	88	366849	9.47	ppbv	100
41) Tetrahydrofuran	6.26	42	1000705	10.68	ppbv	100
42) Bromodichloromethane	8.04	83	2001709	10.00	ppbv	100
43) Methyl Methacrylate	8.25	69	890355	10.57	ppbv	100

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Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Jun 01 01:58:27 2018

QLast Update : Fri Jun 01 01:58:27 2018

Response via : Initial Calibration

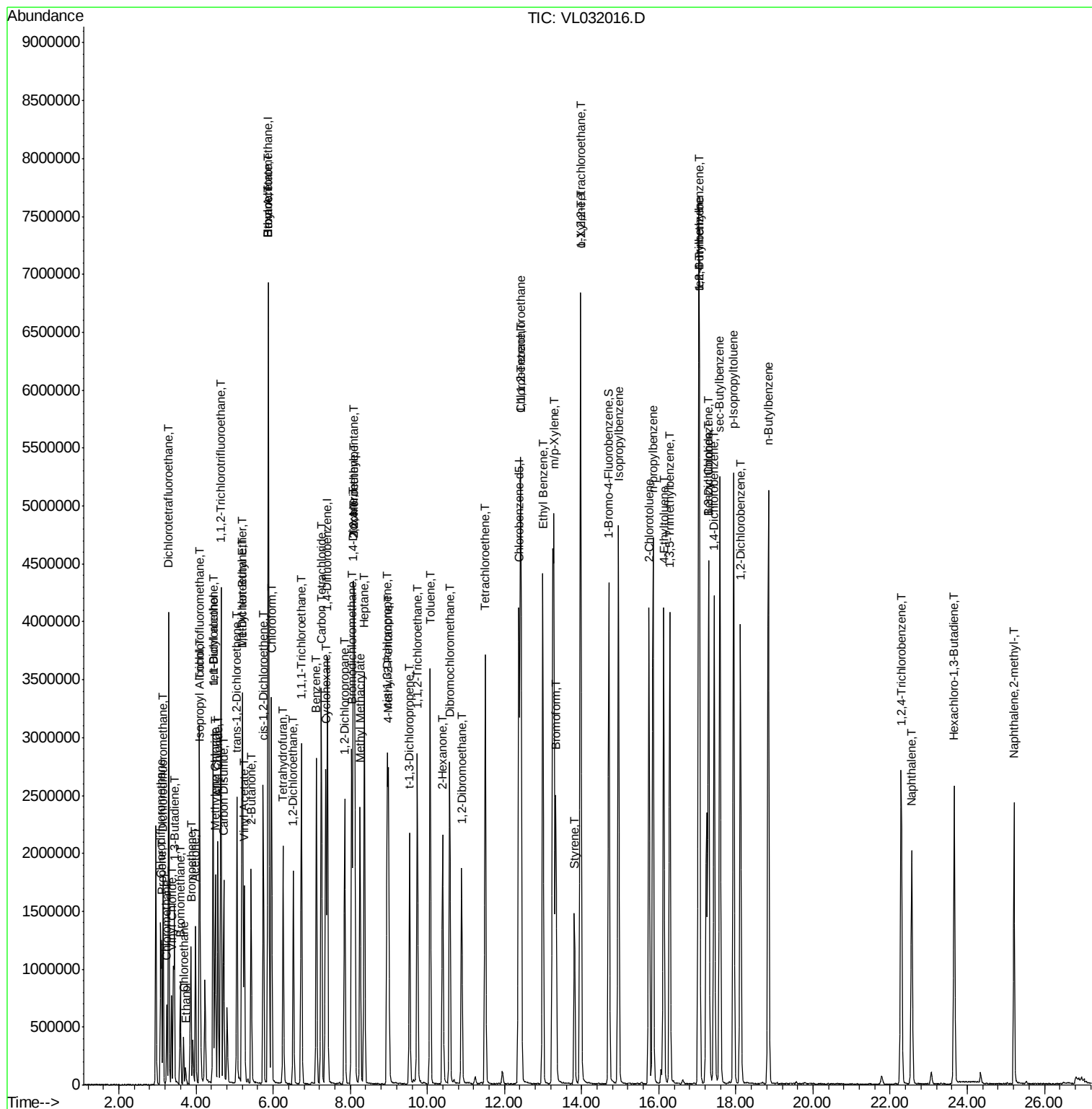
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	8.11	57	3911740	9.74	ppbv	100
45) t-1,3-Dichloropropene	9.54	75	1283493	11.47	ppbv	100
46) cis-1,3-Dichloropropene	8.96	75	1569186	11.38	ppbv	100
47) 1,1,2-Trichloroethane	9.74	97	992574	9.69	ppbv	100
48) Dibromochloromethane	10.58	129	1735716	10.50	ppbv	100
49) Bromoform	13.33	173	1436189	11.08	ppbv	100
50) 4-Methyl-2-Pentanone	8.99	43	2073559	10.11	ppbv	100
51) 2-Hexanone	10.39	43	1984406	10.62	ppbv	100
52) Tetrachloroethene	11.50	164	911670	9.92	ppbv	100
53) Toluene	10.07	91	2811619	10.50	ppbv	100
54) 1,2-Dibromoethane	10.89	107	1537854	10.09	ppbv	100
56) 1,1,1,2-Tetrachloroethane	12.41	131	1200627	7.99	ppbv	98
57) Chlorobenzene	12.43	112	2246654	7.87	ppbv	100
58) Ethyl Benzene	12.99	91	4042159	8.55	ppbv	100
59) m/p-Xylene	13.28	91	3489444	8.64	ppbv #	36
60) o-Xylene	13.98	91	3431334	8.46	ppbv	100
61) Styrene	13.81	104	821994	10.03	ppbv	100
62) Isopropylbenzene	14.95	105	4261605	8.26	ppbv	100
63) 1,1,2,2-Tetrachloroethane	13.96	83	2283217	7.96	ppbv	100
64) n-propylbenzene	15.85	120	1082142	8.34	ppbv	100
65) tert-Butylbenzene	17.03	119	3697850	8.05	ppbv	100
66) Benzyl Chloride	17.29	91	404970	9.46	ppbv	98
67) sec-Butylbenzene	17.59	105	5270549	8.25	ppbv	100
69) p-Isopropyltoluene	17.94	119	4264375	8.33	ppbv	100
70) n-Butylbenzene	18.84	91	4332922	8.19	ppbv	100
71) 2-Chlorotoluene	15.75	91	3256334	8.59	ppbv	100
72) 4-Ethyltoluene	16.13	105	3618079	8.79	ppbv	100
73) 1,3,5-Trimethylbenzene	16.29	105	3186128	8.42	ppbv	100
74) 1,2,4-Trimethylbenzene	17.05	105	3402604	8.10	ppbv	100
75) 1,3-Dichlorobenzene	17.29	146	2165412	8.29	ppbv	100
76) 1,4-Dichlorobenzene	17.44	146	2184206	8.46	ppbv	100
77) 1,2-Dichlorobenzene	18.12	146	2071996	7.96	ppbv	100
78) Hexachloro-1,3-Butadiene	23.66	225	407443	3.82	ppbv #	43
79) Naphthalene	22.56	128	2443274	8.47	ppbv	100
80) Naphthalene,2-methyl-	25.21	142	1186426	15.60	ppbv	100
81) 1,2,4-Trichlorobenzene	22.29	180	1262920	7.90	ppbv	100

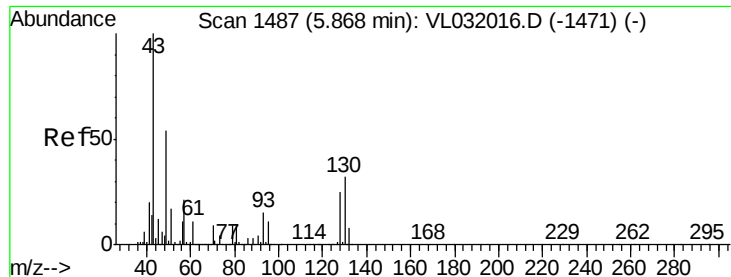
(#)=qualifier out of range (m)=manual integration (+)=signals summed

ALS Vial : 1 Sample Multiplier: 1

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#1

Bromochloromethane

Concen: 10.00 ppbv

RT: 5.87 min Scan# 1487

Delta R.T. 0.00 min

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VSTDICCC010

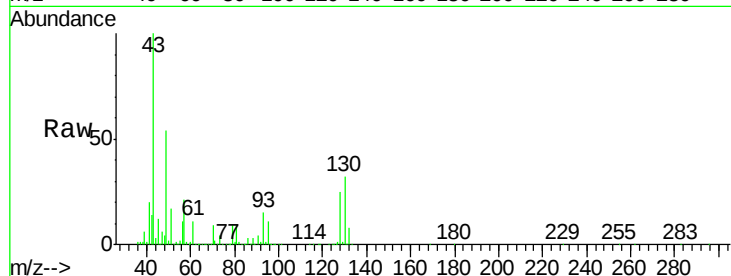
Tgt Ion: 49 Resp: 1359740

Ion Ratio Lower Upper

49 100

128 48.2 24.1 72.3

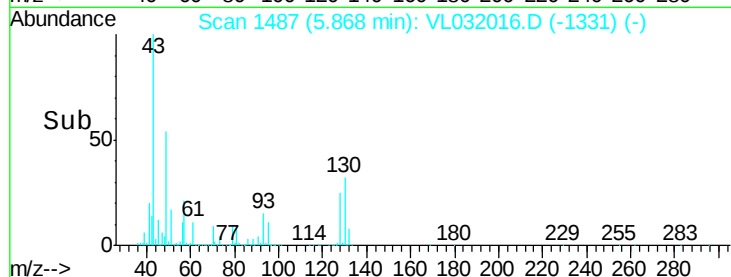
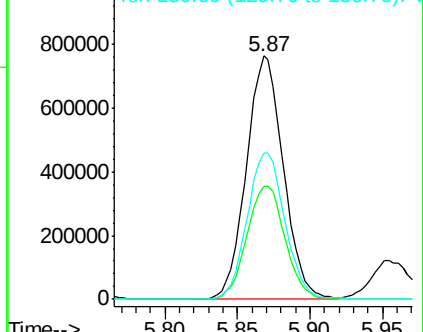
130 61.9 30.9 92.8



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: 7.67 ppbv

RT: 3.15 min Scan# 641

Delta R.T. 0.00 min

Lab File: VL032016.D

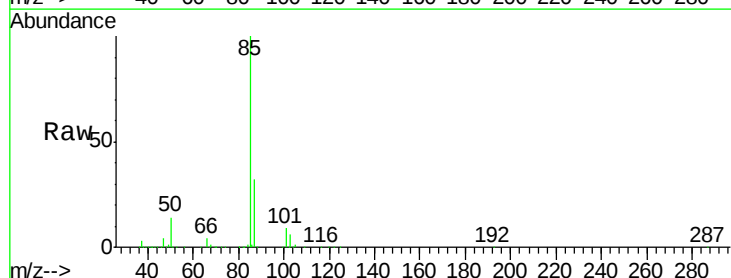
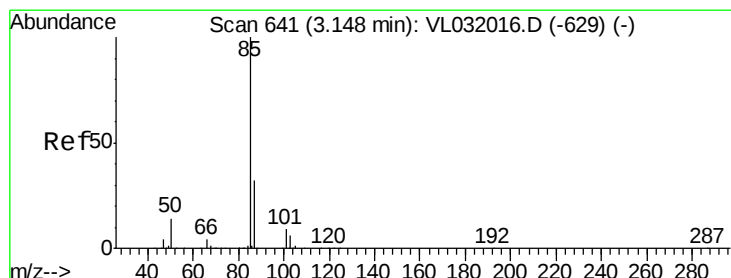
Acq: 31 May 2018 16:04

Tgt Ion: 85 Resp: 1330150

Ion Ratio Lower Upper

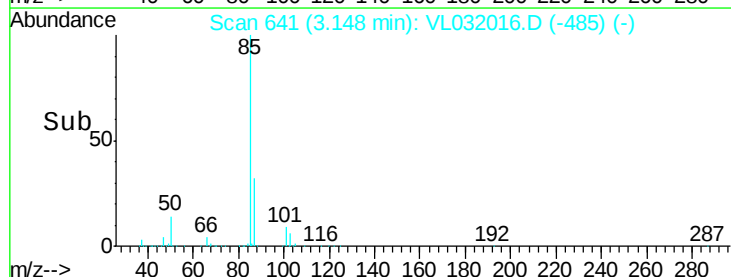
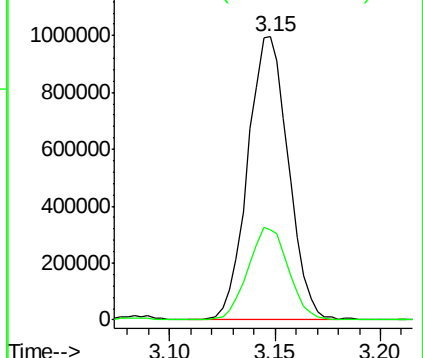
85 100

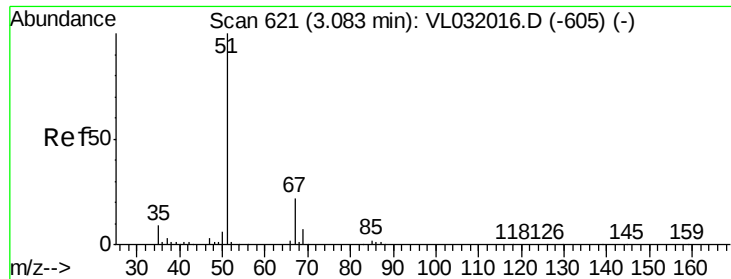
87 31.9 25.5 38.3



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 9.02 ppbv

RT: 3.08 min Scan# 621

Delta R.T. 0.00 min

Lab File: VL032016.D

Acq: 31 May 2018 16:04

Instrument :

MSVOA_L

ClientSampleId :

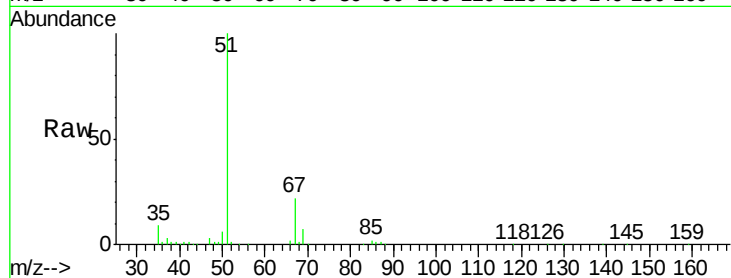
VSTDICCC010

Tgt Ion: 51 Resp: 1152727

Ion Ratio Lower Upper

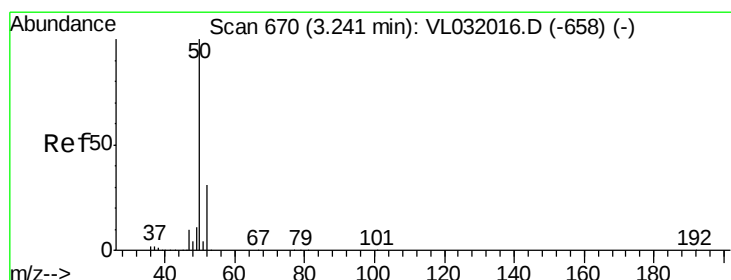
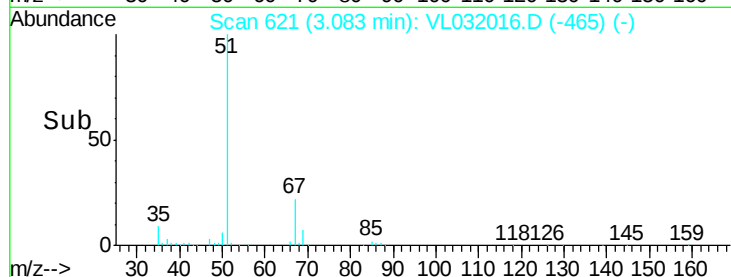
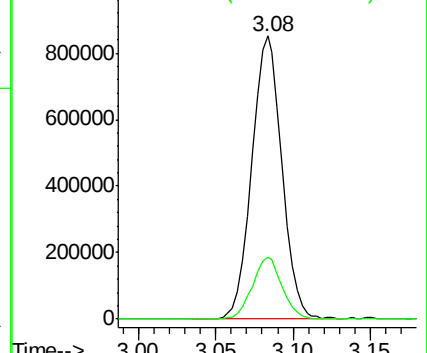
51 100

67 21.7 17.2 25.8



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 8.98 ppbv

RT: 3.24 min Scan# 670

Delta R.T. 0.00 min

Lab File: VL032016.D

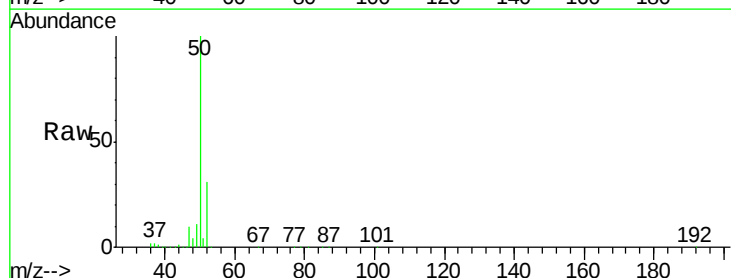
Acq: 31 May 2018 16:04

Tgt Ion: 50 Resp: 593988

Ion Ratio Lower Upper

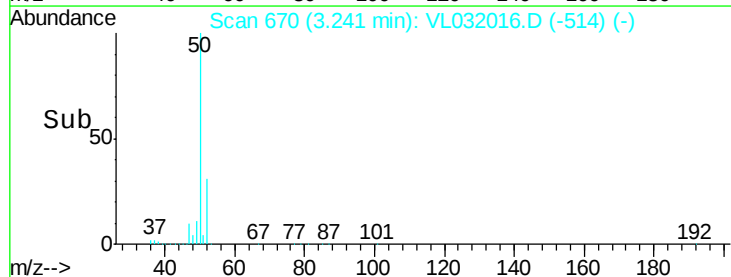
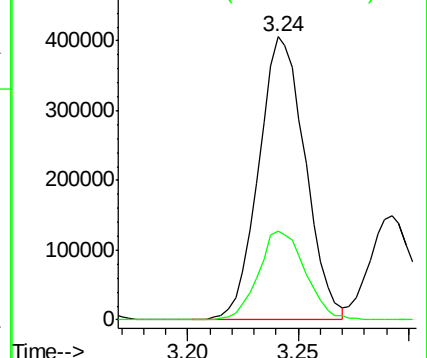
50 100

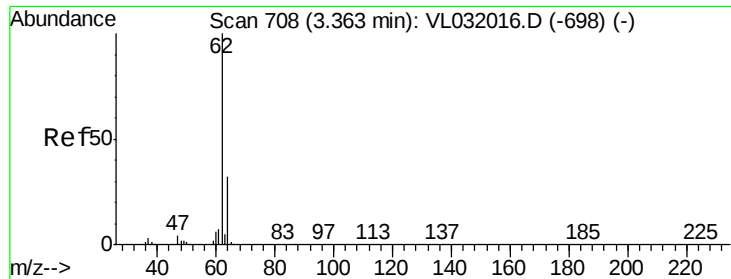
52 31.3 25.0 37.6



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#5

Vinyl Chloride

Concen: 8.29 ppbv

RT: 3.36 min Scan# 708

Delta R.T. 0.00 min

Lab File: VL032016.D

Acq: 31 May 2018 16:04

Instrument :

MSVOA_L

ClientSampleId :

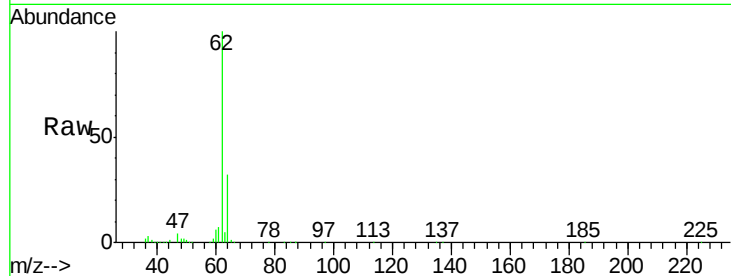
VSTDICCC010

Tgt Ion: 62 Resp: 624579

Ion Ratio Lower Upper

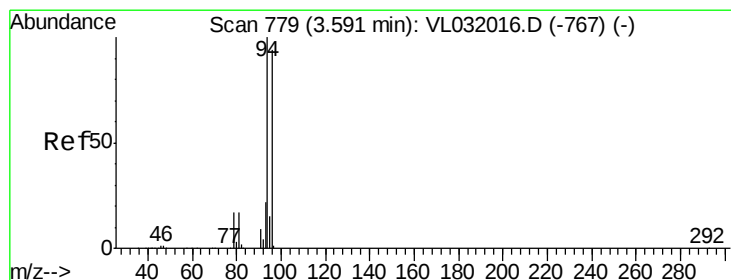
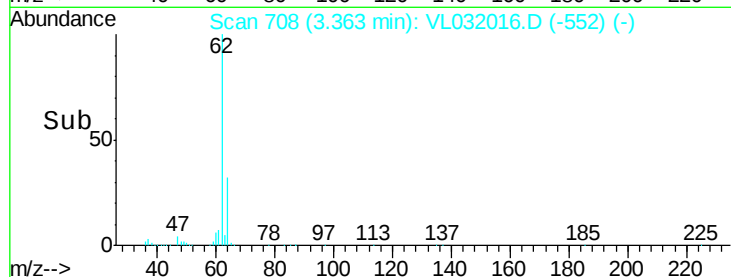
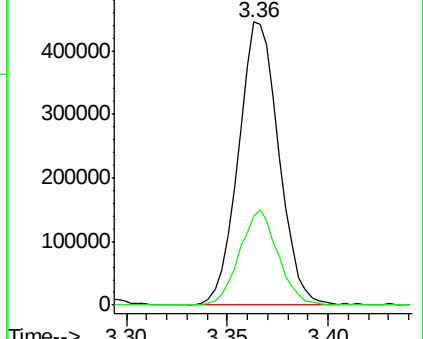
62 100

64 31.5 25.2 37.8



Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 64.10 (63.80 to 64.80): VL0



#6

Bromomethane

Concen: 9.18 ppbv

RT: 3.59 min Scan# 779

Delta R.T. 0.00 min

Lab File: VL032016.D

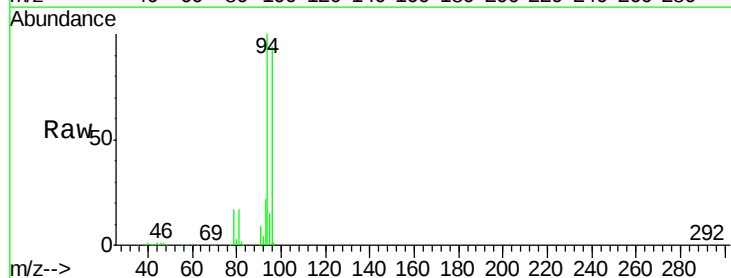
Acq: 31 May 2018 16:04

Tgt Ion: 94 Resp: 451647

Ion Ratio Lower Upper

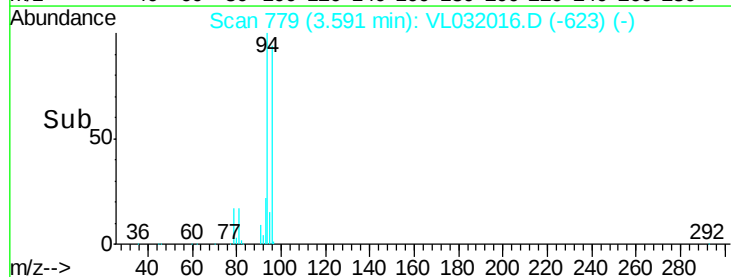
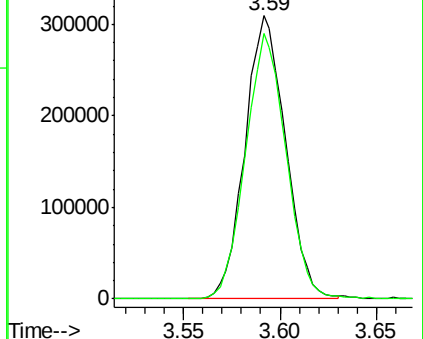
94 100

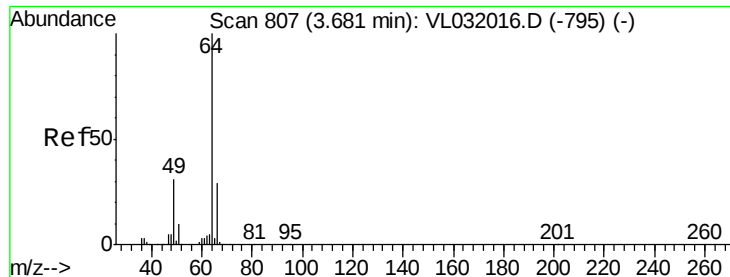
96 93.9 75.1 112.7



Abundance Ion 94.00 (93.70 to 94.70): VL0

Ion 96.00 (95.70 to 96.70): VL0





#7

Chloroethane

Concen: 9.15 ppbv

RT: 3.68 min Scan# 807

Delta R.T. 0.00 min

Lab File: VL032016.D

Acq: 31 May 2018 16:04

Instrument :

MSVOA_L

ClientSampleId :

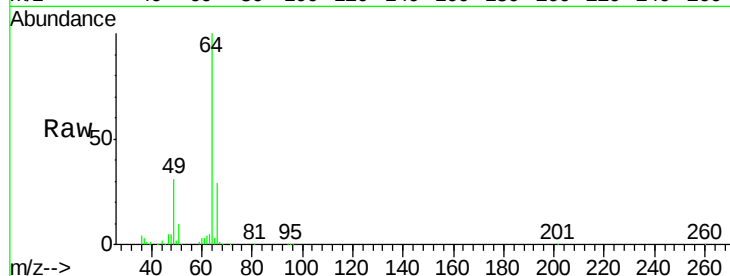
VSTDICCC010

Tgt Ion: 64 Resp: 263866

Ion Ratio Lower Upper

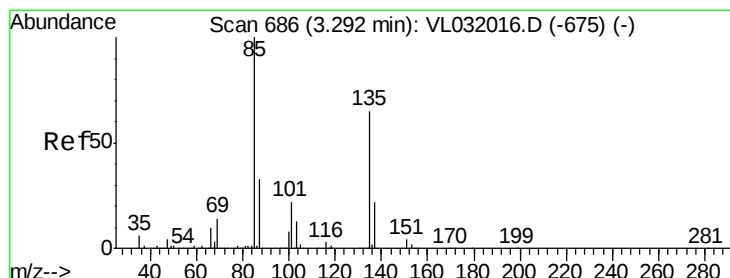
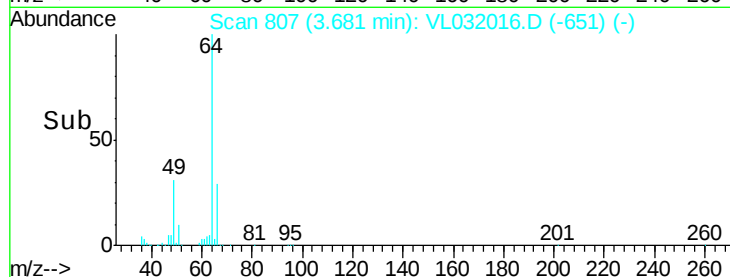
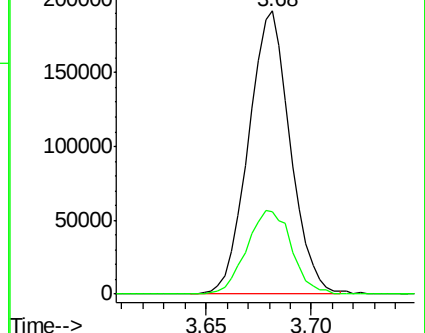
64 100

66 29.3 23.4 35.2



Abundance Ion 64.10 (63.80 to 64.80): VL0

Ion 66.10 (65.80 to 66.80): VL0



#8

Dichlorotetrafluoroethane

Concen: 8.85 ppbv

RT: 3.29 min Scan# 686

Delta R.T. 0.00 min

Lab File: VL032016.D

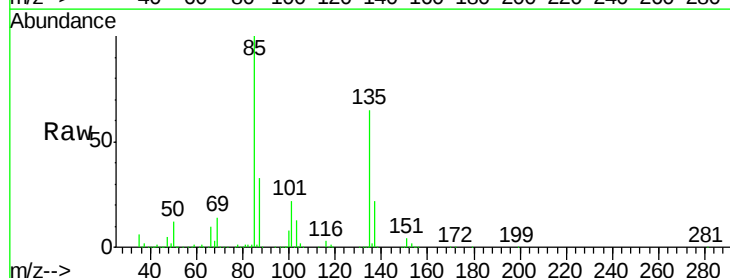
Acq: 31 May 2018 16:04

Tgt Ion: 85 Resp: 1570973

Ion Ratio Lower Upper

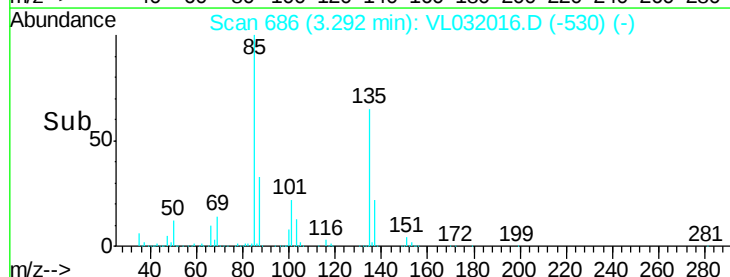
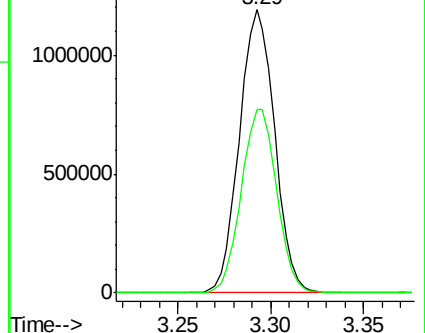
85 100

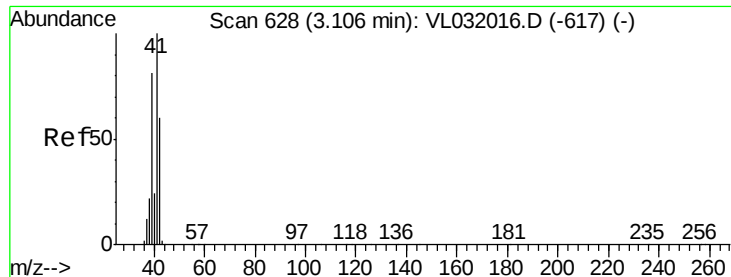
135 65.8 52.6 79.0



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 135.00 (134.70 to 135.70): V





#9

Propene

Concen: 9.56 ppbv

RT: 3.11 min Scan# 628

Delta R.T. 0.00 min

Lab File: VL032016.D

Acq: 31 May 2018 16:04

Instrument :

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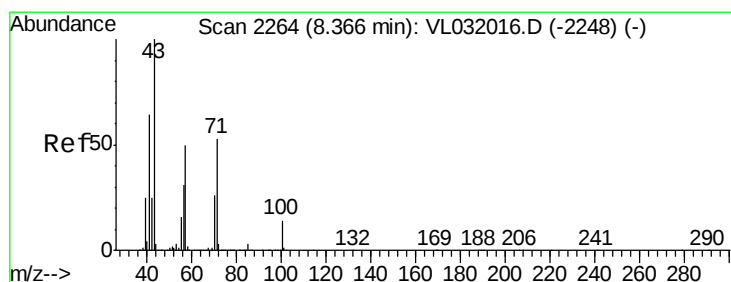
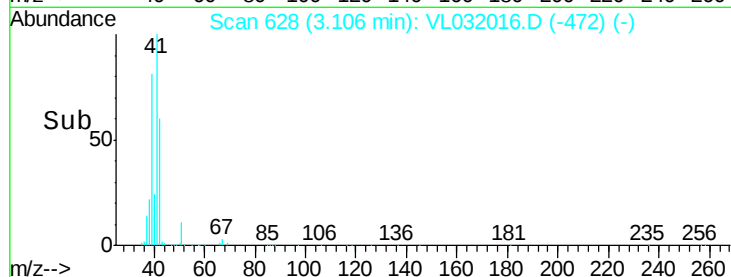
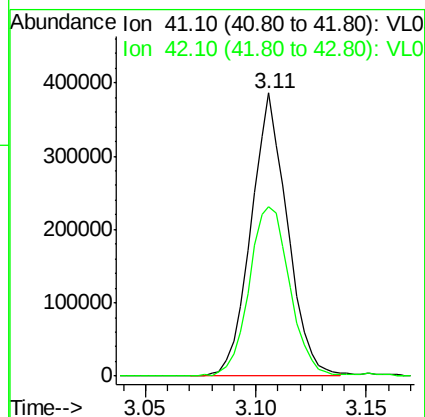
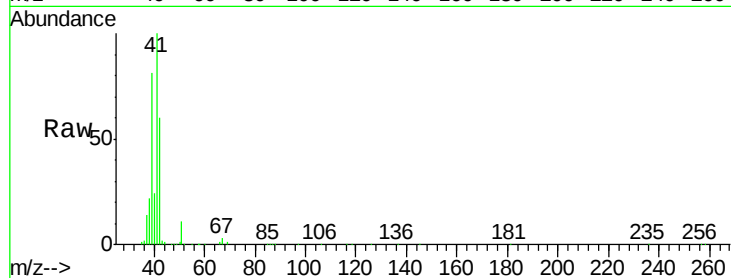
VSTDICCC010

Tgt Ion: 41 Resp: 443098

Ion Ratio Lower Upper

41 100

42 68.0 54.4 81.6



#10

Heptane

Concen: 9.56 ppbv

RT: 8.37 min Scan# 2264

Delta R.T. 0.00 min

Lab File: VL032016.D

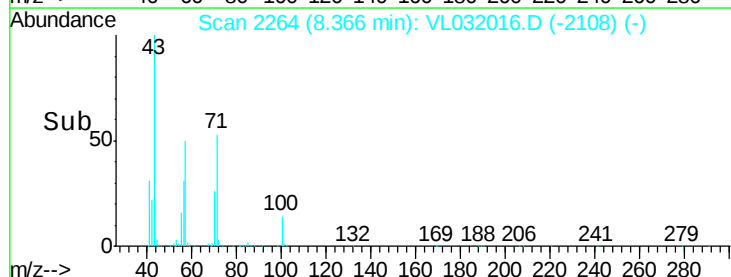
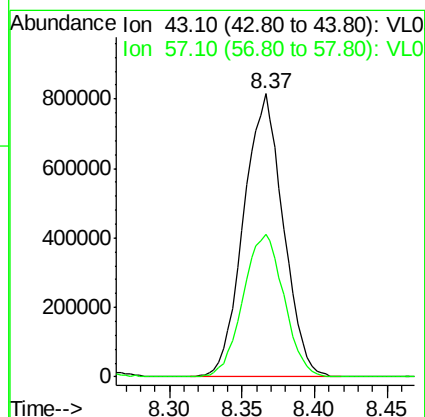
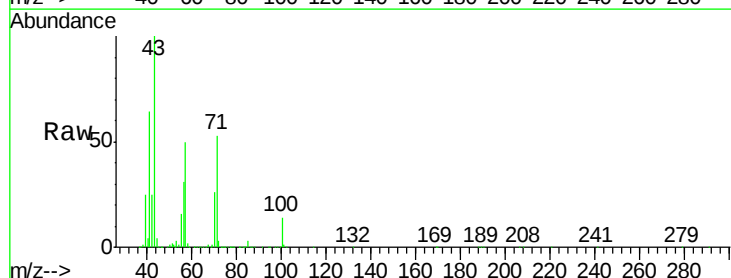
Acq: 31 May 2018 16:04

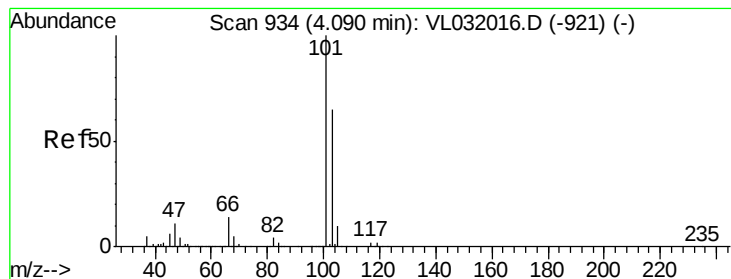
Tgt Ion: 43 Resp: 1541165

Ion Ratio Lower Upper

43 100

57 52.2 41.7 62.5





#11

Trichlorofluoromethane

Concen: 9.07 ppbv

RT: 4.09 min Scan# 934

Delta R.T. 0.00 min

Lab File: VL032016.D

Acq: 31 May 2018 16:04

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ClientSampleId :

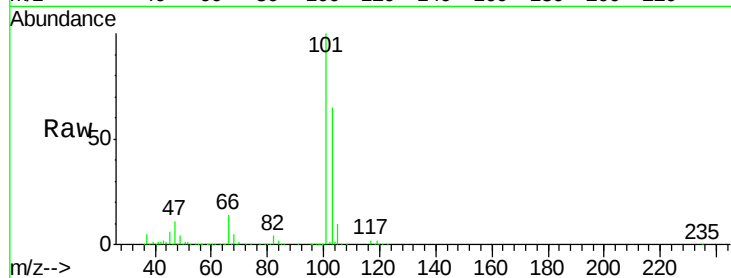
VSTDICCC010

Tgt Ion:101 Resp: 1998438

Ion Ratio Lower Upper

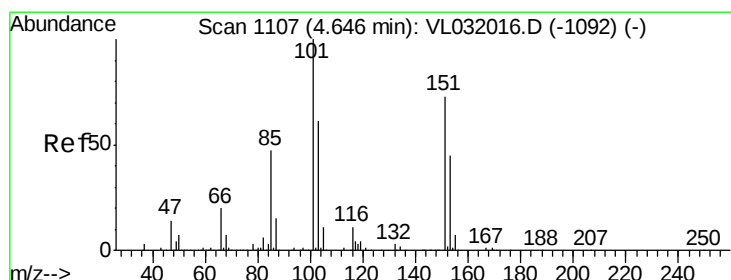
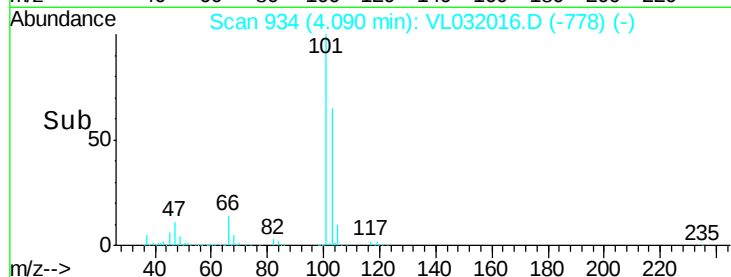
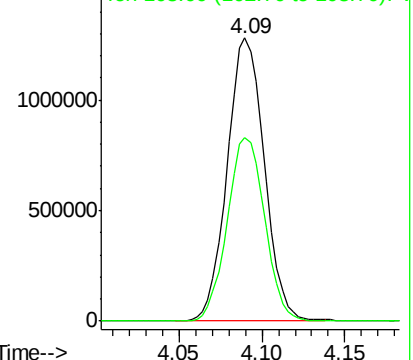
101 100

103 65.0 52.0 78.0



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V



#12

1,1,2-Trichlorotrifluoroethane

Concen: 10.02 ppbv

RT: 4.65 min Scan# 1107

Delta R.T. 0.00 min

Lab File: VL032016.D

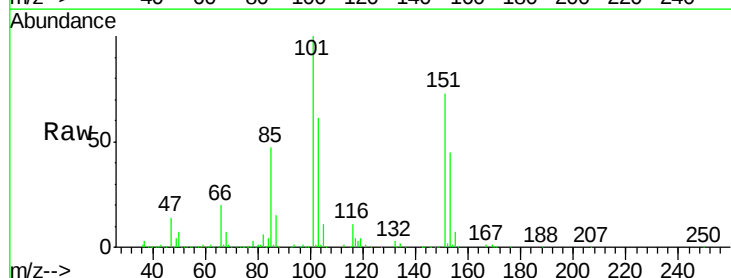
Acq: 31 May 2018 16:04

Tgt Ion:101 Resp: 1570561

Ion Ratio Lower Upper

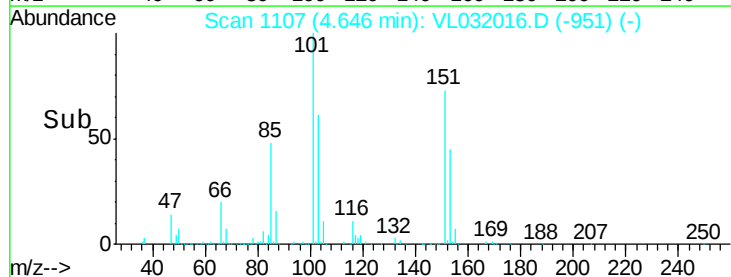
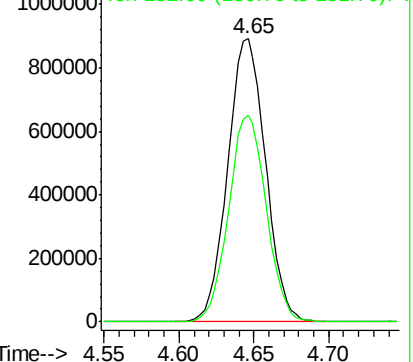
101 100

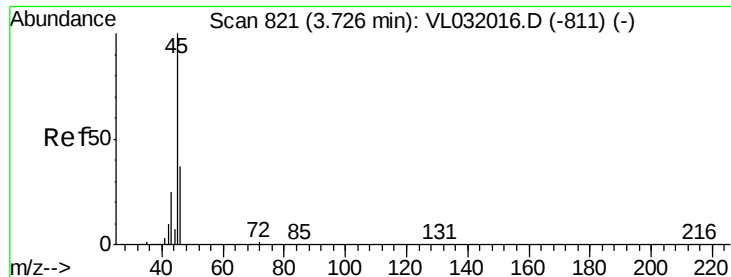
151 72.8 58.2 87.4



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 151.00 (150.70 to 151.70): V





#13

Ethanol

Concen: 7.61 ppbv

RT: 3.73 min Scan# 821

Delta R.T. 0.00 min

Lab File: VL032016.D

Acq: 31 May 2018 16:04

Instrument :

MSVOA_L

ClientSampleId :

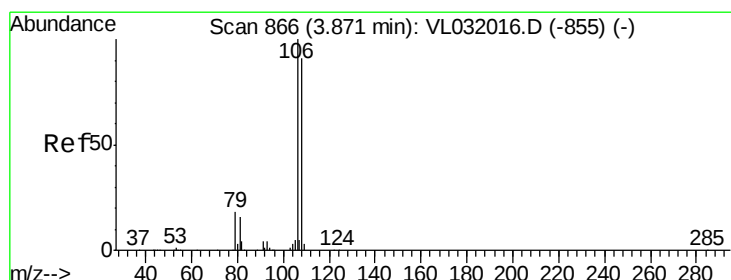
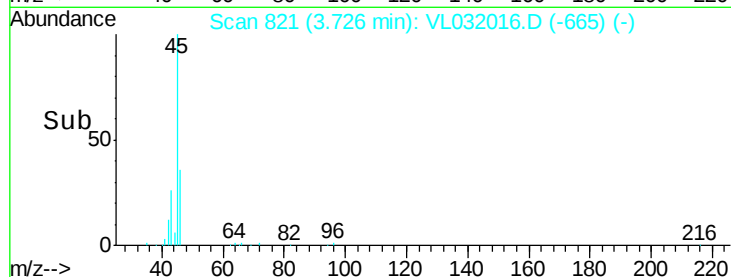
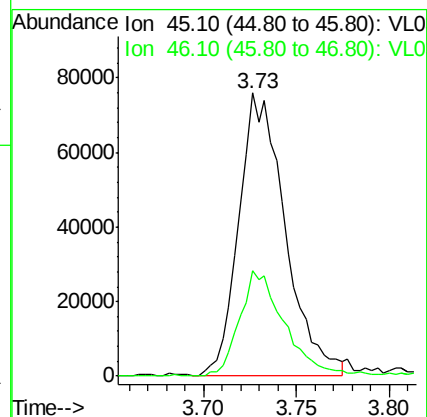
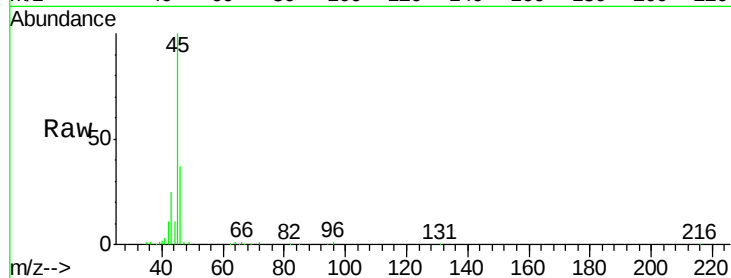
VSTDICCC010

Tgt Ion: 45 Resp: 131911

Ion Ratio Lower Upper

45 100

46 37.3 14.9 59.5



#14

Bromoethene

Concen: 9.32 ppbv

RT: 3.87 min Scan# 866

Delta R.T. 0.00 min

Lab File: VL032016.D

Acq: 31 May 2018 16:04

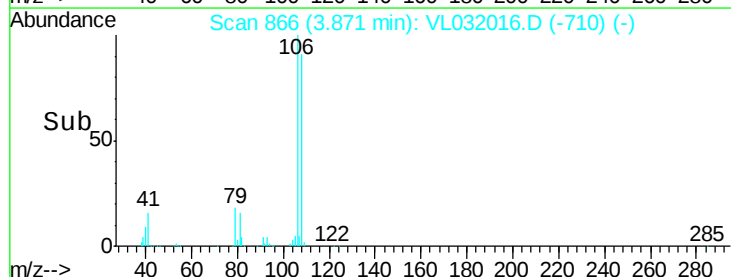
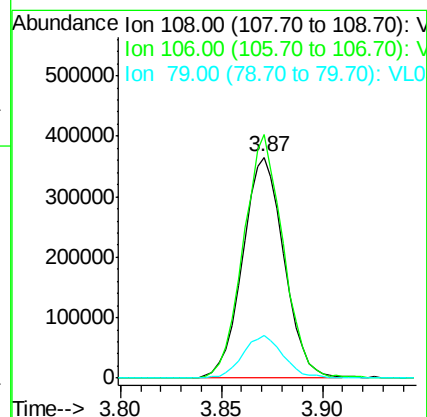
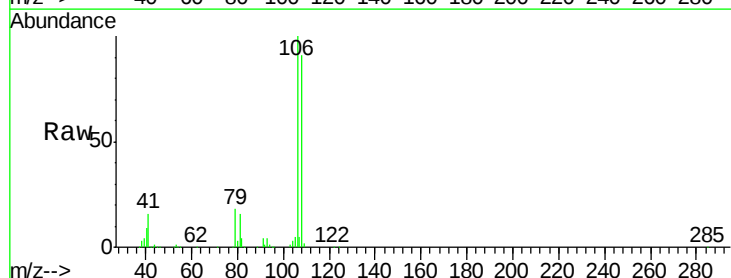
Tgt Ion: 108 Resp: 525876

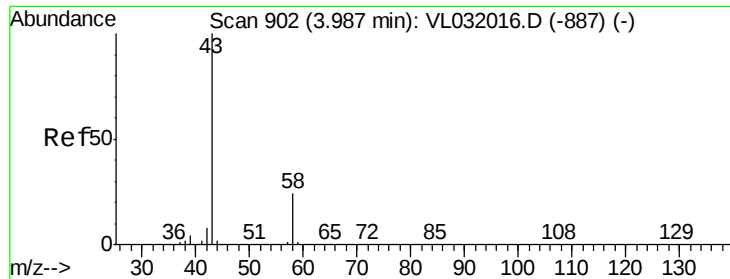
Ion Ratio Lower Upper

108 100

106 106.7 85.1 127.7

79 18.8 15.2 22.8





#15

Acetone

Concen: 7.06 ppbv

RT: 3.99 min Scan# 902

Delta R.T. 0.00 min

Lab File: VL032016.D

Acq: 31 May 2018 16:04

Instrument :

MSVOA_L

ClientSampleId :

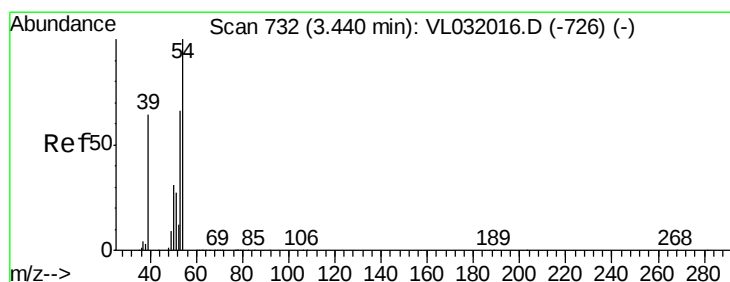
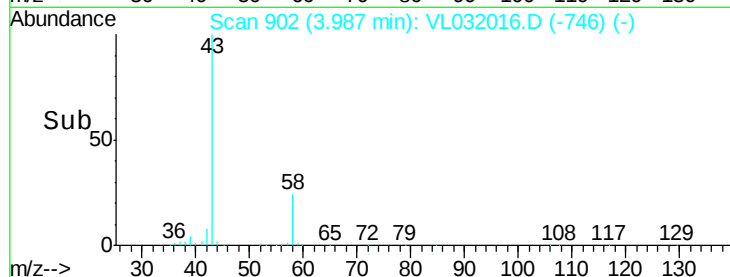
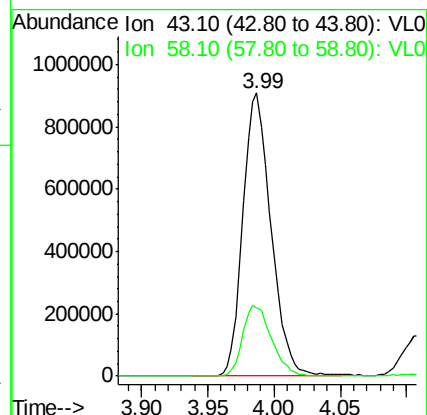
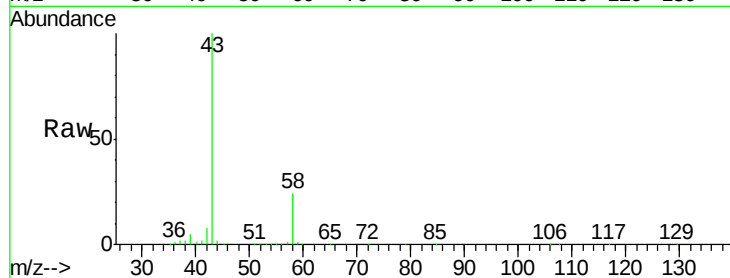
VSTDICCC010

Tgt Ion: 43 Resp: 1340359

Ion Ratio Lower Upper

43 100

58 26.0 20.7 31.1



#16

1,3-Butadiene

Concen: 10.04 ppbv

RT: 3.44 min Scan# 732

Delta R.T. 0.00 min

Lab File: VL032016.D

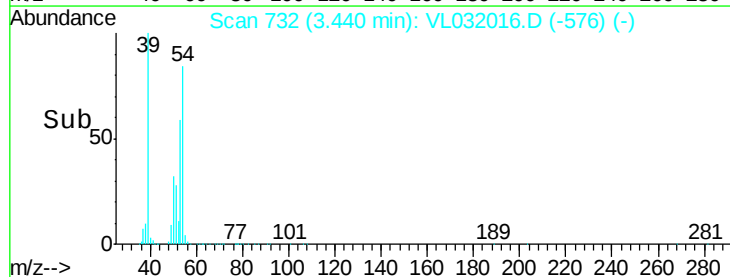
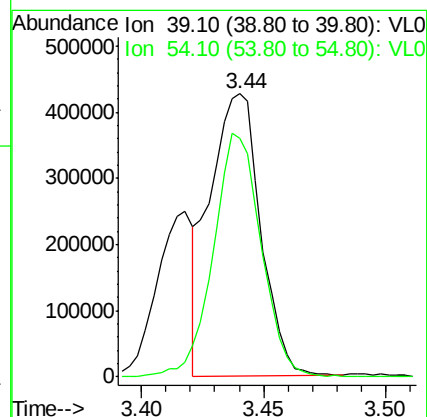
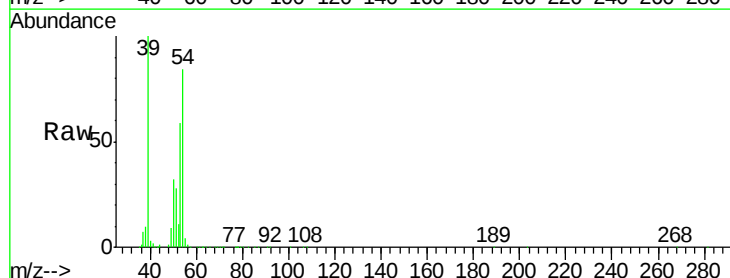
Acq: 31 May 2018 16:04

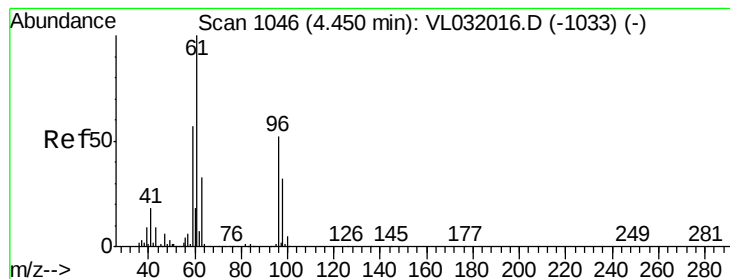
Tgt Ion: 39 Resp: 616936

Ion Ratio Lower Upper

39 100

54 82.3 65.7 98.5





#17

tert-Butyl alcohol

Concen: 9.49 ppbv

RT: 4.45 min Scan# 1046

Delta R.T. 0.00 min

Lab File: VL032016.D

Acq: 31 May 2018 16:04

Instrument :

MSVOA_L

ClientSampleId :

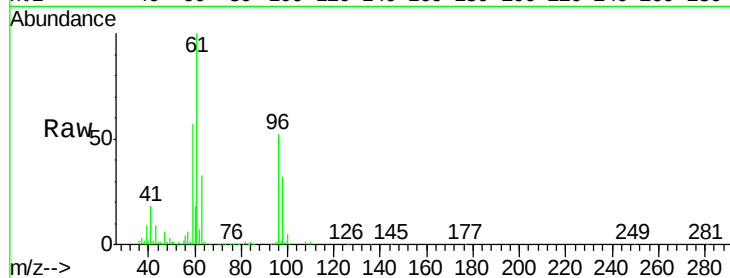
VSTDICCC010

Tgt Ion: 59 Resp: 752997

Ion Ratio Lower Upper

59 100

57 10.4 8.3 12.5



Abundance Ion 59.10 (58.80 to 59.80): VL0

Ion 57.10 (56.80 to 57.80): VL0

4.45

400000

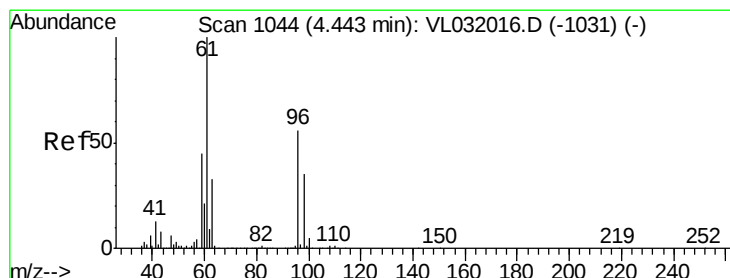
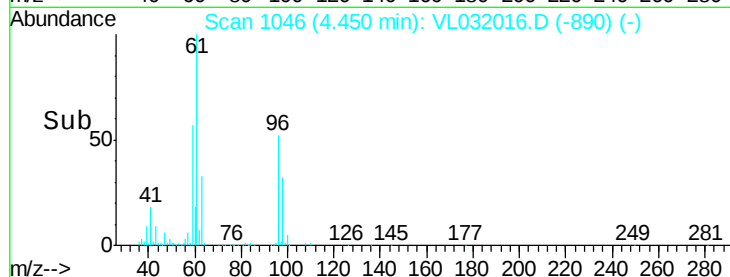
300000

200000

100000

0

Time-->



#18

1,1-Dichloroethene

Concen: 9.74 ppbv

RT: 4.44 min Scan# 1044

Delta R.T. 0.00 min

Lab File: VL032016.D

Acq: 31 May 2018 16:04

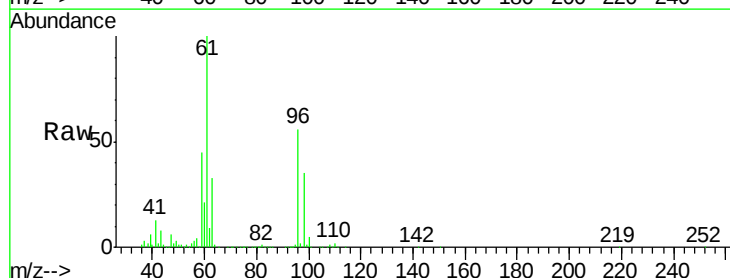
Tgt Ion: 96 Resp: 665662

Ion Ratio Lower Upper

96 100

61 179.4 143.5 215.3

98 62.5 50.0 75.0



Abundance Ion 96.00 (95.70 to 96.70): VL0

Ion 61.10 (60.80 to 61.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

1000000

800000

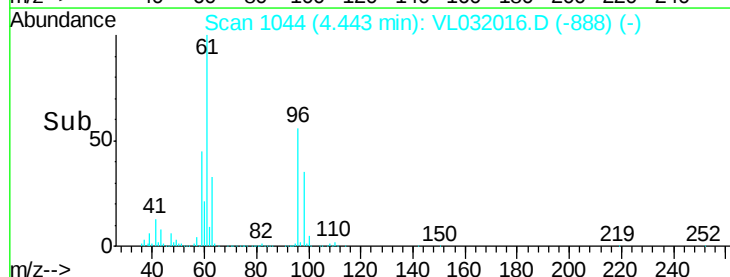
600000

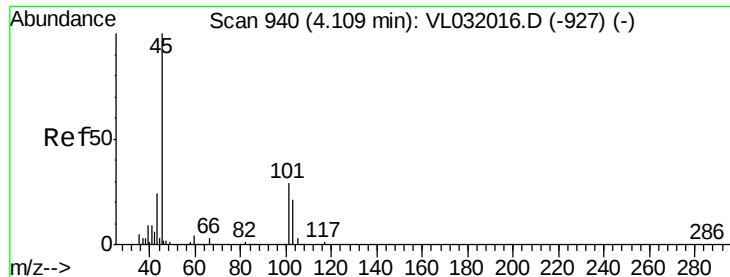
400000

200000

0

Time-->





#19

Isopropyl Alcohol

Concen: 9.49 ppbv

RT: 4.11 min Scan# 940

Delta R.T. 0.00 min

Lab File: VL032016.D

Acq: 31 May 2018 16:04

Instrument :

MSVOA_L

ClientSampleId :

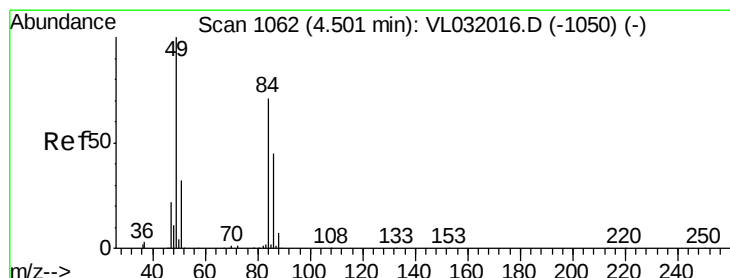
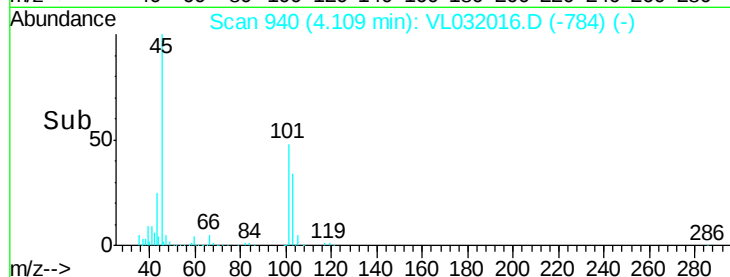
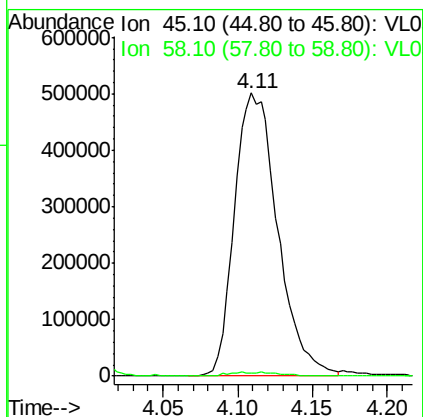
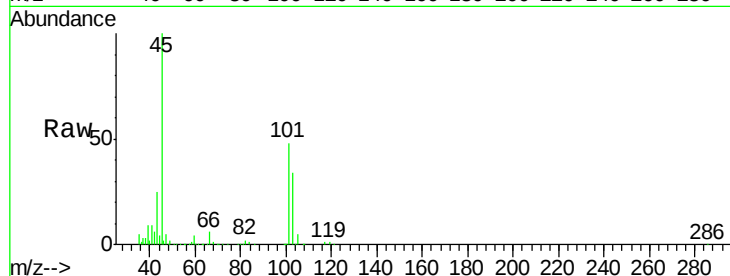
VSTDICCC010

Tgt Ion: 45 Resp: 1004680

Ion Ratio Lower Upper

45 100

58 1.6 1.5 2.3



#20

Methylene Chloride

Concen: 9.48 ppbv

RT: 4.50 min Scan# 1062

Delta R.T. 0.00 min

Lab File: VL032016.D

Acq: 31 May 2018 16:04

Tgt Ion: 84 Resp: 622597

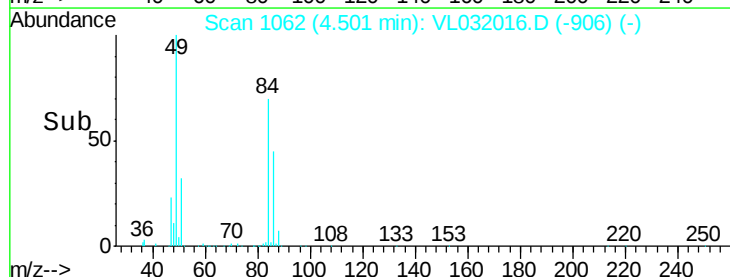
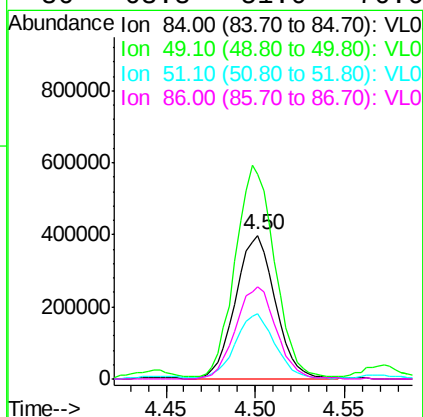
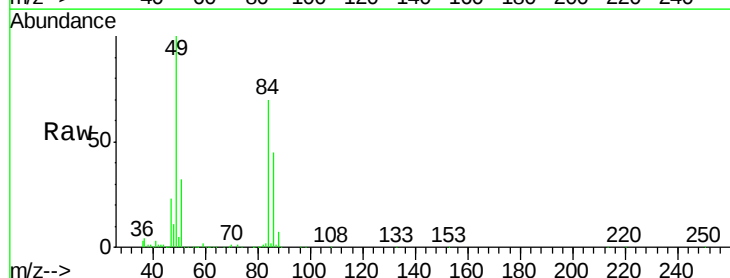
Ion Ratio Lower Upper

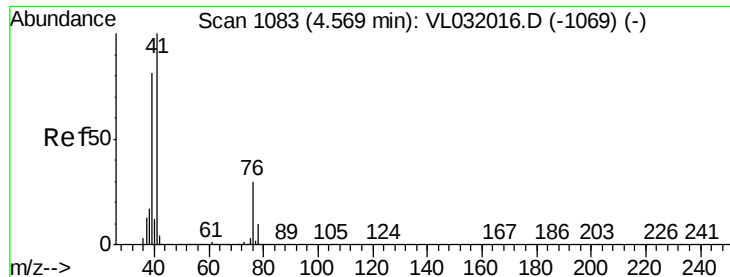
84 100

49 141.2 113.0 169.4

51 45.5 36.4 54.6

86 63.8 51.0 76.6

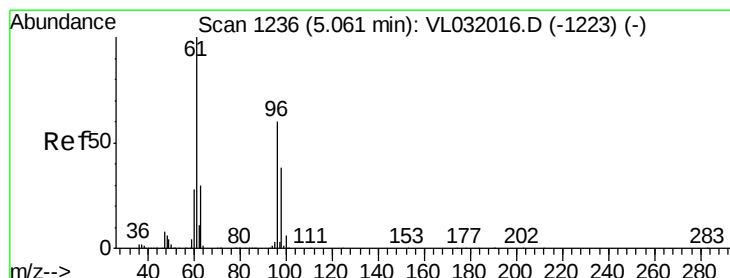
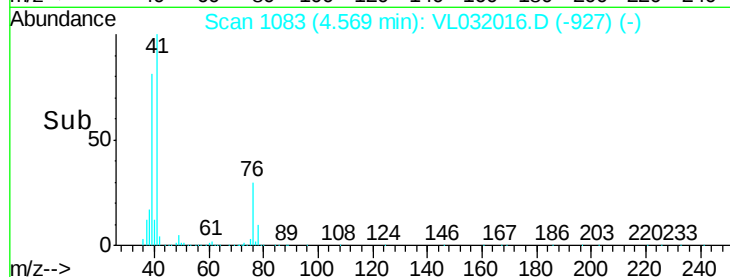
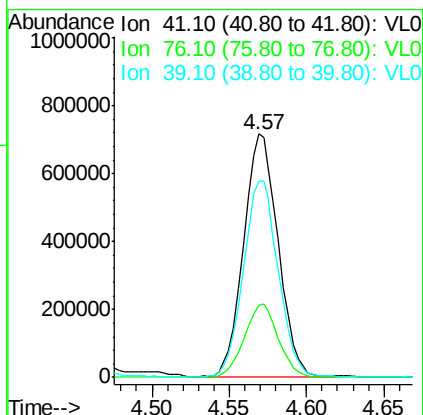
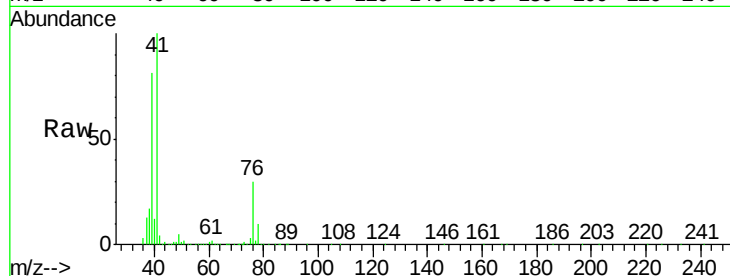




#21
 Allyl Chloride
 Concen: 10.02 ppbv
 RT: 4.57 min Scan# 1083
 Delta R.T. 0.00 min
 Lab File: VL032016.D
 Acq: 31 May 2018 16:04

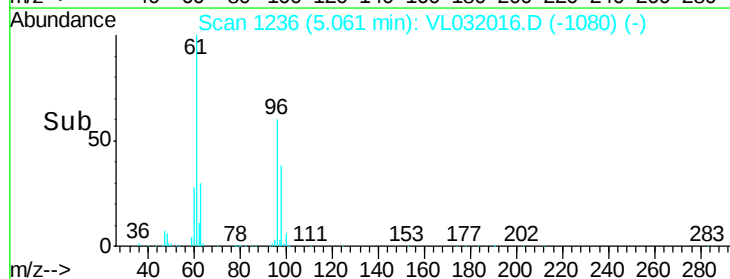
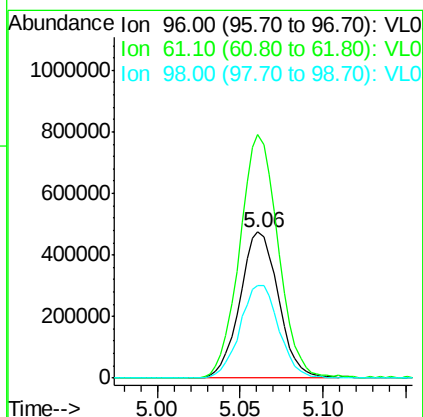
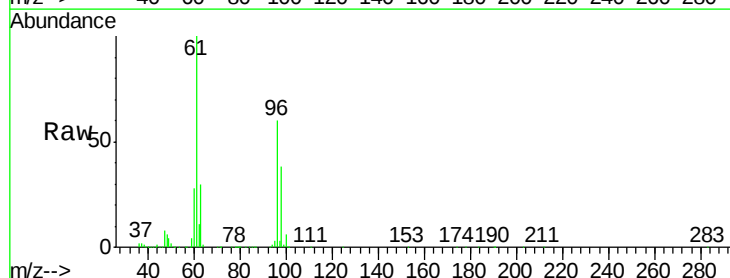
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

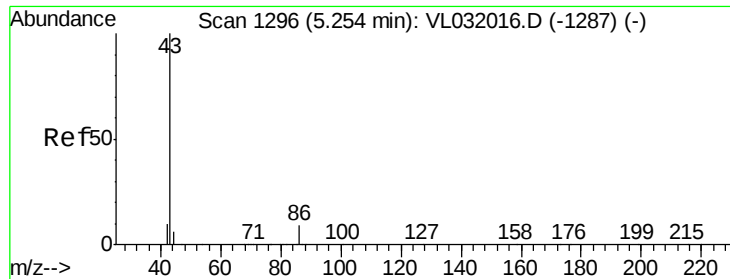
Tgt Ion: 41 Resp: 1107898
 Ion Ratio Lower Upper
 41 100
 76 29.9 23.9 35.9
 39 82.1 65.9 98.9



#22
 trans-1,2-Dichloroethene
 Concen: 10.11 ppbv
 RT: 5.06 min Scan# 1236
 Delta R.T. 0.00 min
 Lab File: VL032016.D
 Acq: 31 May 2018 16:04

Tgt Ion: 96 Resp: 768752
 Ion Ratio Lower Upper
 96 100
 61 166.6 133.3 199.9
 98 63.7 51.0 76.4





#23

Vinyl Acetate

Concen: 10.10 ppbv

RT: 5.25 min Scan# 1296

Delta R.T. 0.00 min

Lab File: VL032016.D

Acq: 31 May 2018 16:04

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tgt Ion: 43 Resp: 2229105

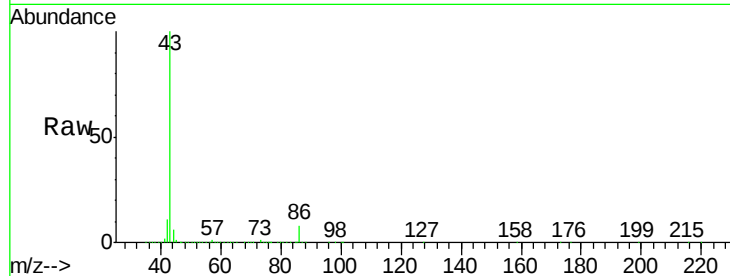
Ion Ratio Lower Upper

43 100

86 7.8 6.2 9.4

42 10.9 8.7 13.1

44 5.7 4.6 6.8

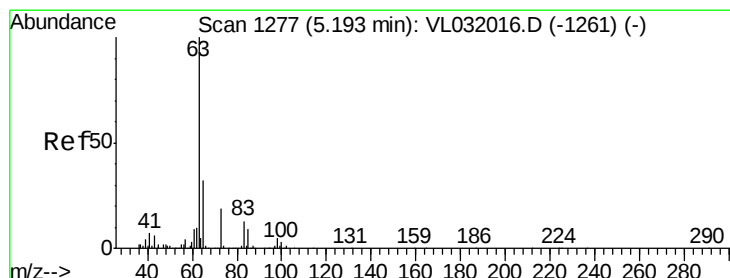
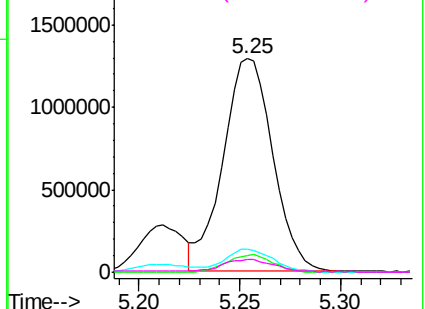
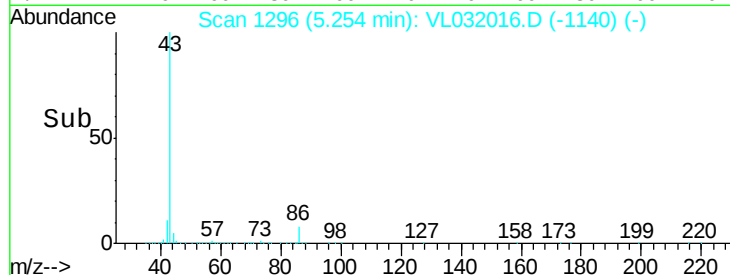


Abundance Ion 43.10 (42.80 to 43.80): VL0

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: 9.62 ppbv

RT: 5.19 min Scan# 1277

Delta R.T. 0.00 min

Lab File: VL032016.D

Acq: 31 May 2018 16:04

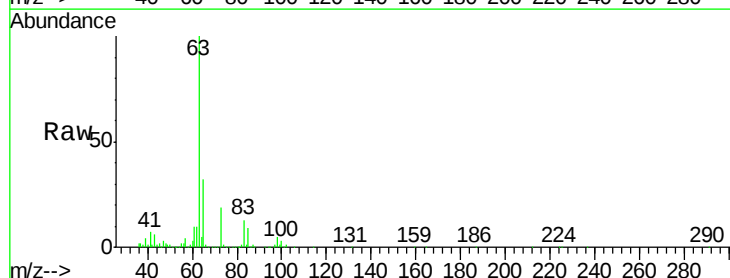
Tgt Ion: 63 Resp: 2002653

Ion Ratio Lower Upper

63 100

98 4.7 2.4 7.1

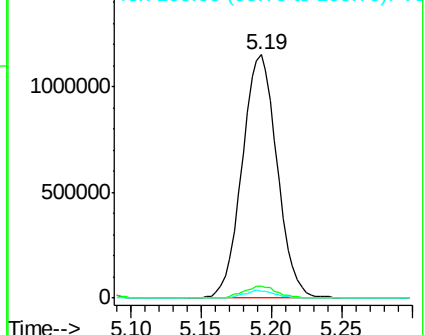
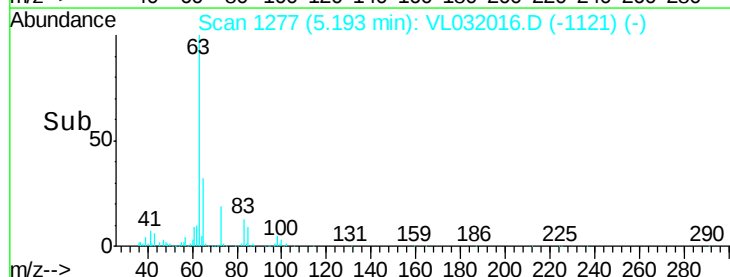
100 3.0 1.5 4.5

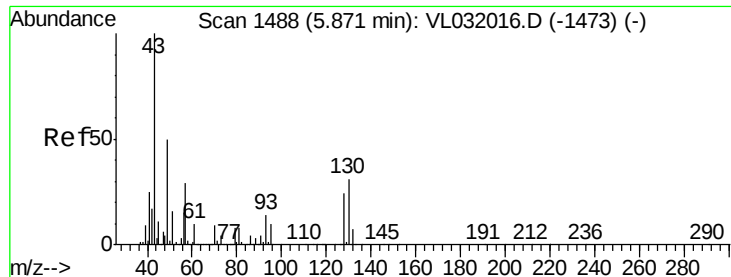


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

Ion 100.00 (99.70 to 100.70): VL0



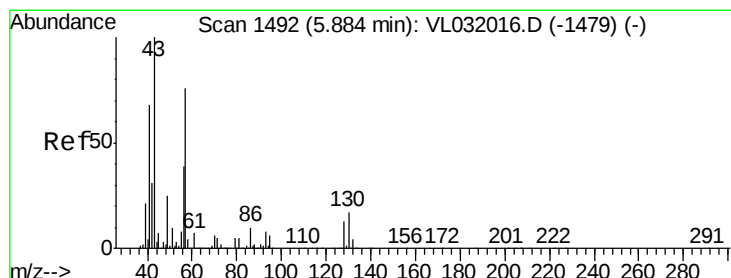
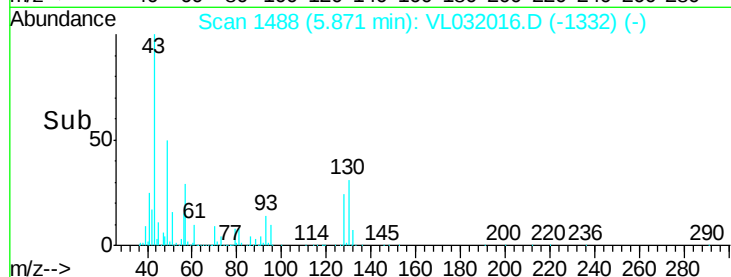
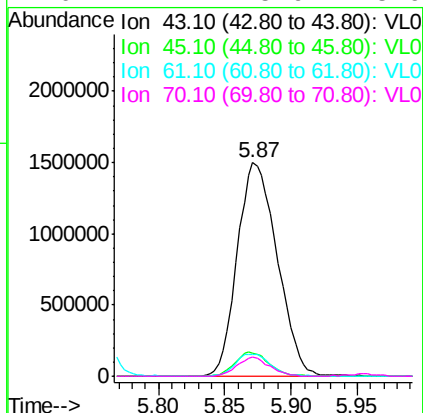
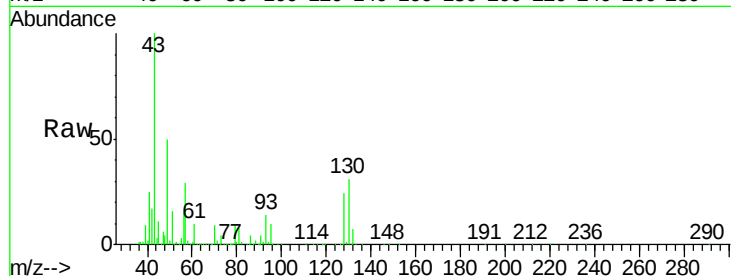


#25
Ethyl Acetate
Concen: 9.49 ppbv
RT: 5.87 min Scan# 1488
Delta R.T. 0.00 min
Lab File: VL032016.D
Acq: 31 May 2018 16:04

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tgt Ion: 43 Resp: 3136926

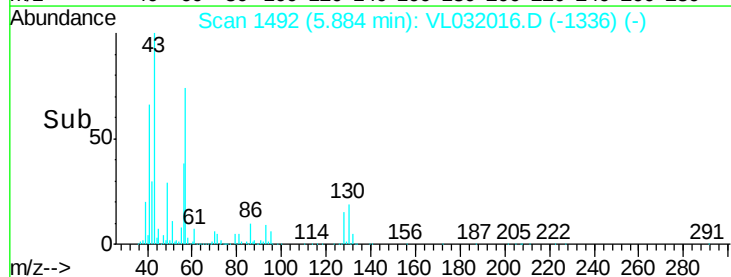
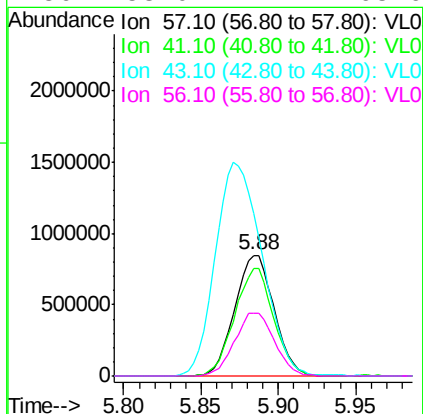
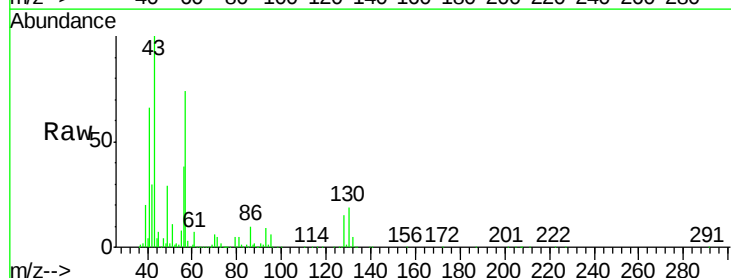
Ion	Ratio	Lower	Upper
43	100		
45	9.7	7.8	11.6
61	9.4	7.4	11.2
70	7.4	5.9	8.9

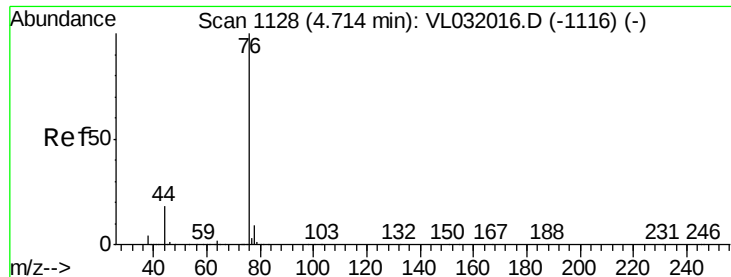


#26
Hexane
Concen: 9.58 ppbv
RT: 5.88 min Scan# 1492
Delta R.T. 0.00 min
Lab File: VL032016.D
Acq: 31 May 2018 16:04

Tgt Ion: 57 Resp: 1494043

Ion	Ratio	Lower	Upper
57	100		
41	89.5	71.4	107.2
43	210.6	168.6	252.8
56	53.0	42.4	63.6





#27

Carbon Disulfide

Concen: 11.41 ppbv

RT: 4.71 min Scan# 1128

Delta R.T. 0.00 min

Lab File: VL032016.D

Acq: 31 May 2018 16:04

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

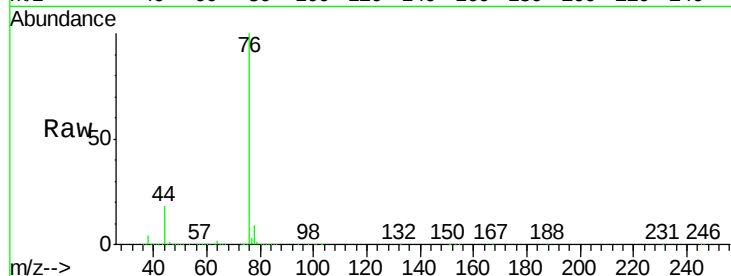
Tgt Ion: 76 Resp: 2046967

Ion	Ratio	Lower	Upper
76	100		
44	19.1	14.9	22.3
78	9.5	7.6	11.4

76 100

44 19.1 14.9 22.3

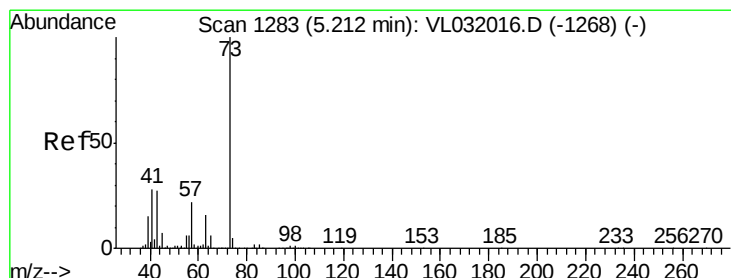
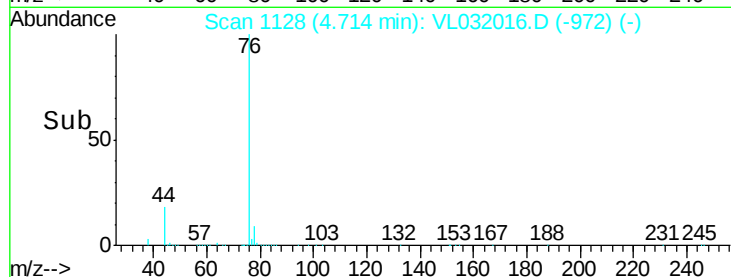
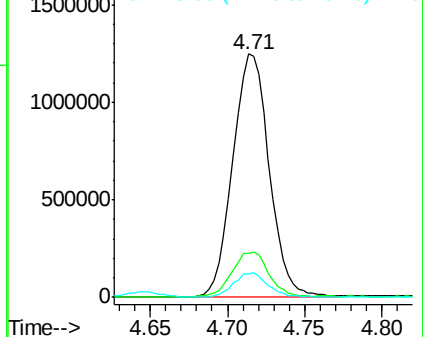
78 9.5 7.6 11.4



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: 10.01 ppbv

RT: 5.21 min Scan# 1283

Delta R.T. 0.00 min

Lab File: VL032016.D

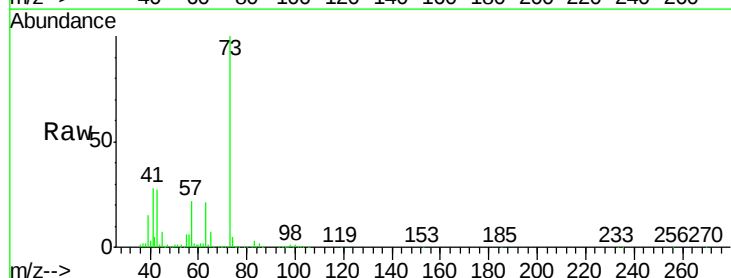
Acq: 31 May 2018 16:04

Tgt Ion: 73 Resp: 1918288

Ion	Ratio	Lower	Upper
73	100		
57	22.3	17.8	26.8

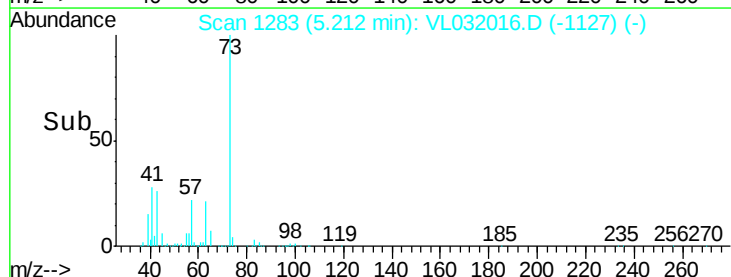
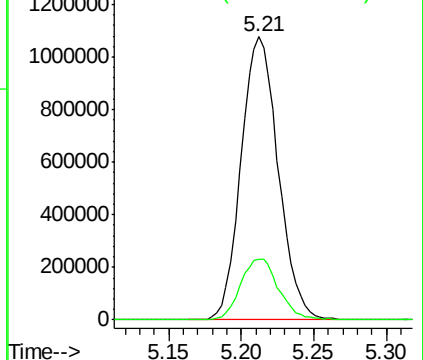
73 100

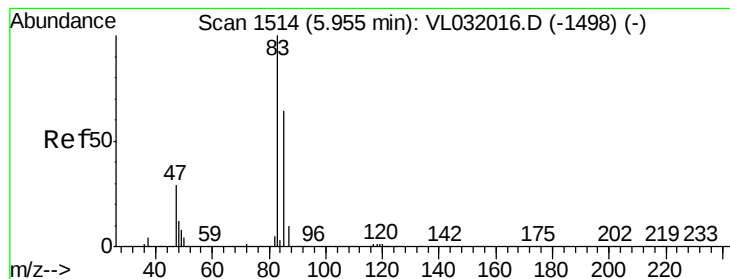
57 22.3 17.8 26.8



Abundance Ion 73.10 (72.80 to 73.80): VL0

Ion 57.10 (56.80 to 57.80): VL0





#29

Chloroform

Concen: 9.61 ppbv

RT: 5.95 min Scan# 1514

Delta R.T. 0.00 min

Lab File: VL032016.D

Acq: 31 May 2018 16:04

Instrument :

MSVOA_L

ClientSampleId :

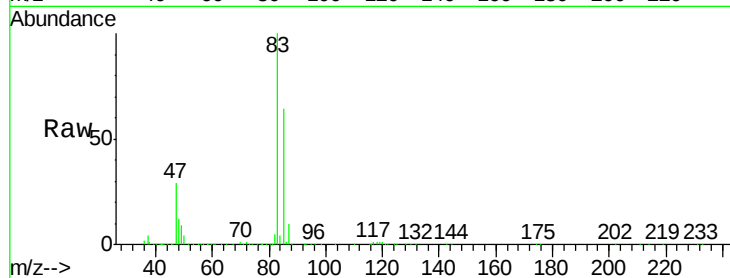
VSTDICCC010

Tgt Ion: 83 Resp: 2392304

Ion Ratio Lower Upper

83 100

85 63.6 50.9 76.3



Abundance Ion 83.00 (82.70 to 83.70): VL0

Ion 85.00 (84.70 to 85.70): VL0

1500000

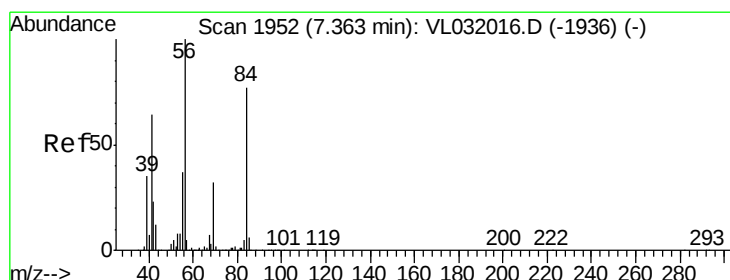
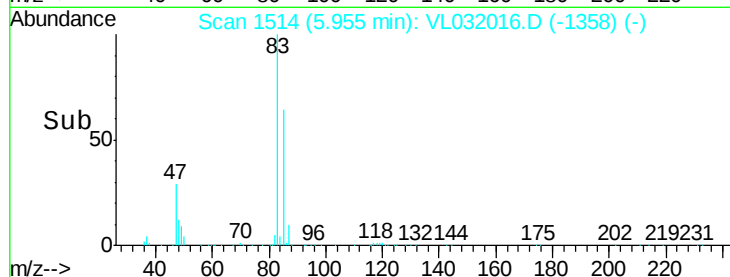
1000000

500000

0

5.90 5.95 6.00

Time-->



#30

Cyclohexane

Concen: 9.19 ppbv

RT: 7.36 min Scan# 1952

Delta R.T. 0.00 min

Lab File: VL032016.D

Acq: 31 May 2018 16:04

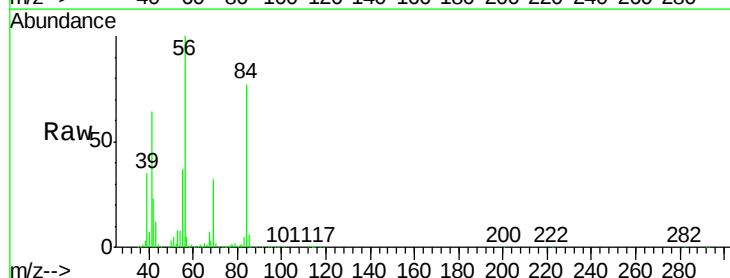
Tgt Ion: 84 Resp: 946036

Ion Ratio Lower Upper

84 100

56 135.8 108.6 162.8

41 83.5 66.8 100.2



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

800000

600000

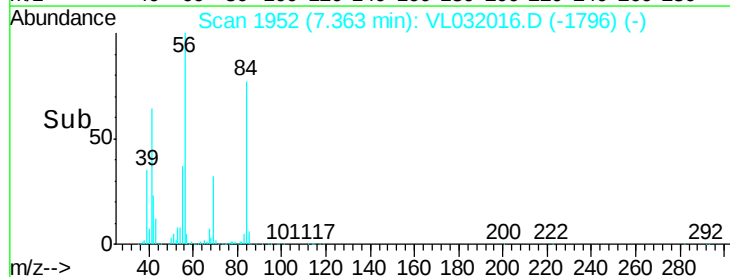
400000

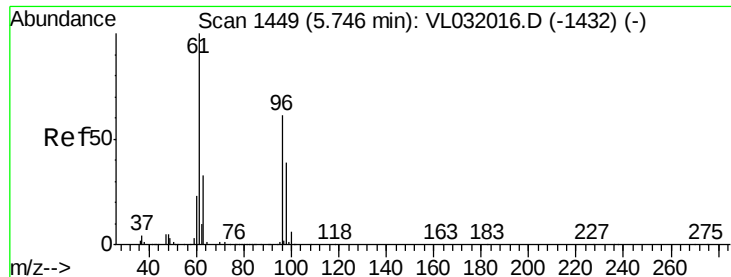
200000

0

7.30 7.35 7.40

Time-->





#31

cis-1,2-Dichloroethene

Concen: 9.98 ppbv

RT: 5.75 min Scan# 1449

Delta R.T. 0.00 min

Lab File: VL032016.D

Acq: 31 May 2018 16:04

Instrument :

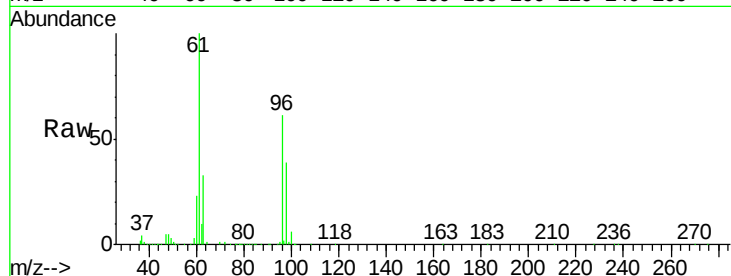
MSVOA_L

ClientSampleId :

VSTDICCC010

Tgt Ion: 61 Resp: 1427910

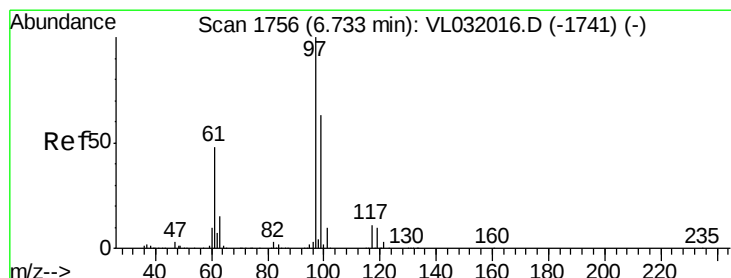
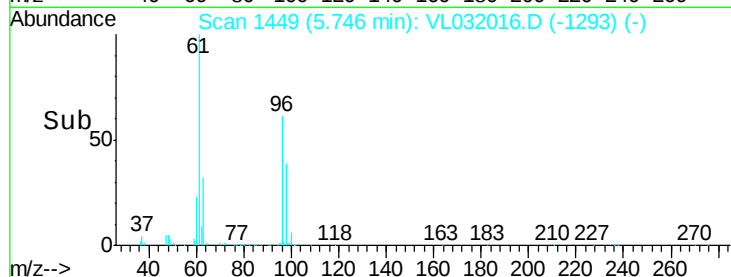
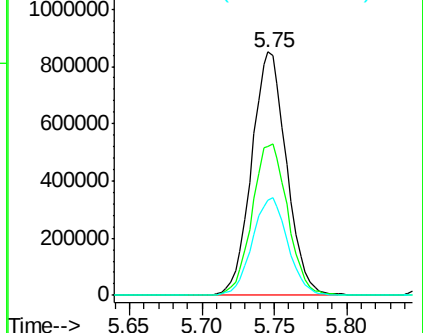
Ion	Ratio	Lower	Upper
61	100		
96	61.3	49.0	73.6
98	39.0	31.2	46.8



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: 8.50 ppbv

RT: 6.73 min Scan# 1756

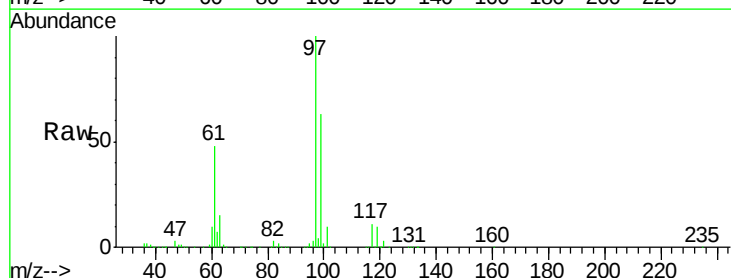
Delta R.T. 0.00 min

Lab File: VL032016.D

Acq: 31 May 2018 16:04

Tgt Ion: 97 Resp: 1922814

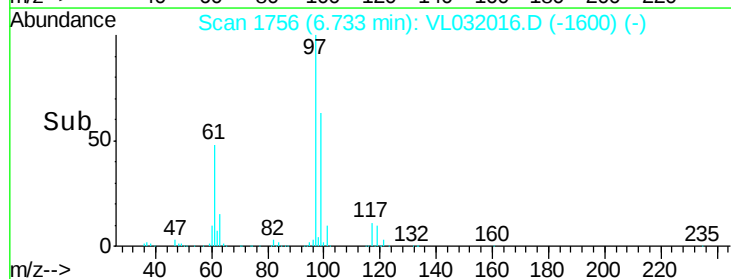
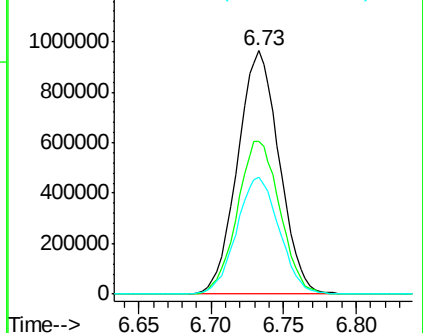
Ion	Ratio	Lower	Upper
97	100		
99	64.4	51.5	77.3
61	49.3	39.4	59.2

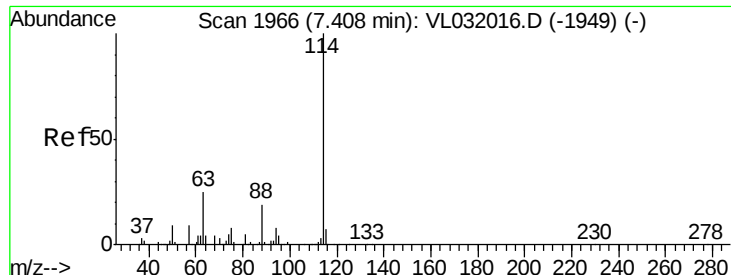


Abundance Ion 97.00 (96.70 to 97.70): VL0

Ion 99.00 (98.70 to 99.70): VL0

Ion 61.10 (60.80 to 61.80): VL0

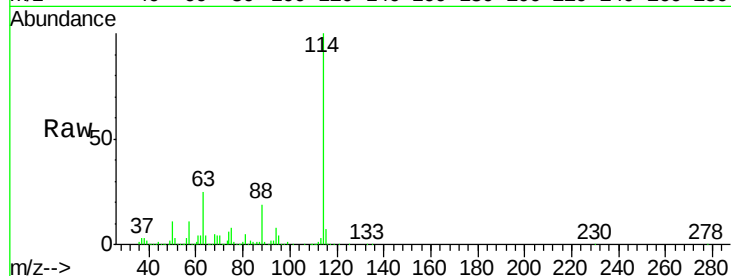




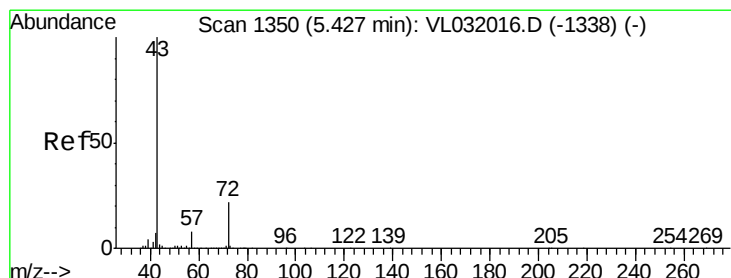
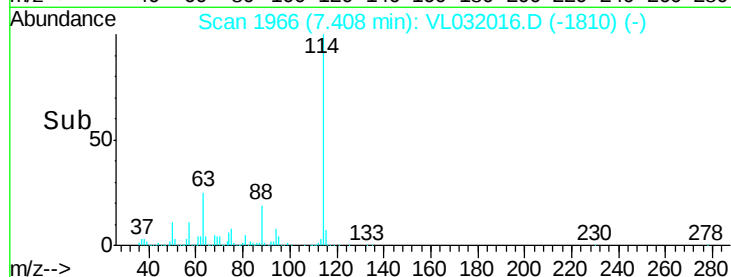
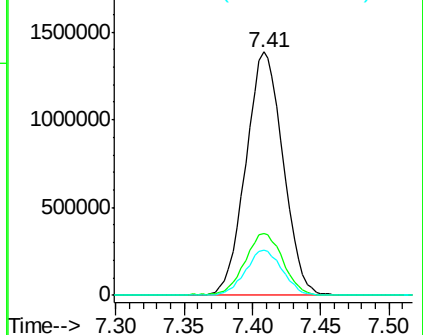
#33
 1,4-Difluorobenzene
 Concen: 10.00 ppbv
 RT: 7.41 min Scan# 1966
 Delta R.T. 0.00 min
 Lab File: VL032016.D
 Acq: 31 May 2018 16:04

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

Tgt Ion:114 Resp: 2627431
 Ion Ratio Lower Upper
 114 100
 63 26.4 21.1 31.7
 88 18.5 14.8 22.2

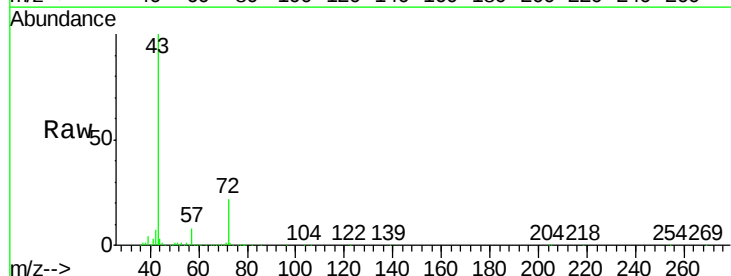


Abundance Ion 114.10 (113.80 to 114.80): V
 Ion 63.10 (62.80 to 63.80): VL0
 Ion 88.10 (87.80 to 88.80): VL0

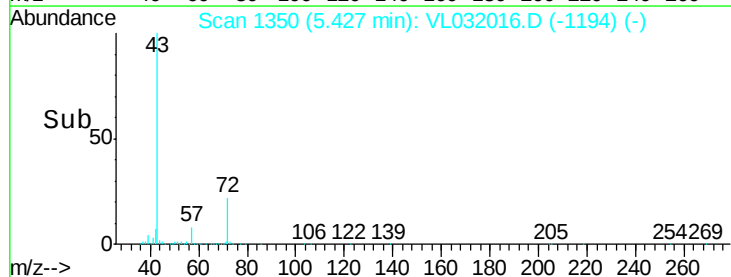
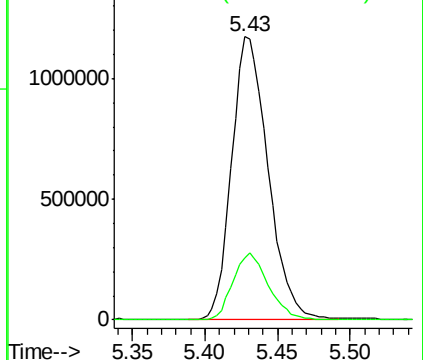


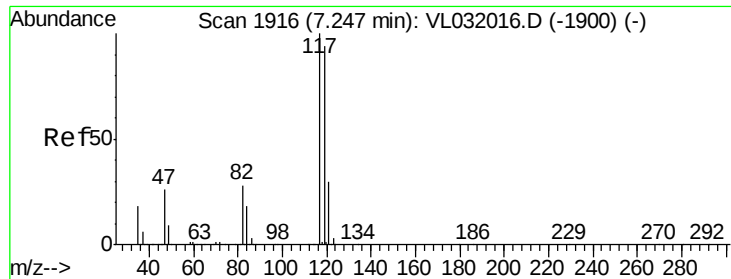
#34
 2-Butanone
 Concen: 9.41 ppbv
 RT: 5.43 min Scan# 1350
 Delta R.T. 0.00 min
 Lab File: VL032016.D
 Acq: 31 May 2018 16:04

Tgt Ion: 43 Resp: 2043263
 Ion Ratio Lower Upper
 43 100
 72 23.2 18.6 27.8



Abundance Ion 43.10 (42.80 to 43.80): VL0
 Ion 72.10 (71.80 to 72.80): VL0





#35

Carbon Tetrachloride

Concen: 9.73 ppbv

RT: 7.25 min Scan# 1916

Delta R.T. 0.00 min

Lab File: VL032016.D

Acq: 31 May 2018 16:04

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

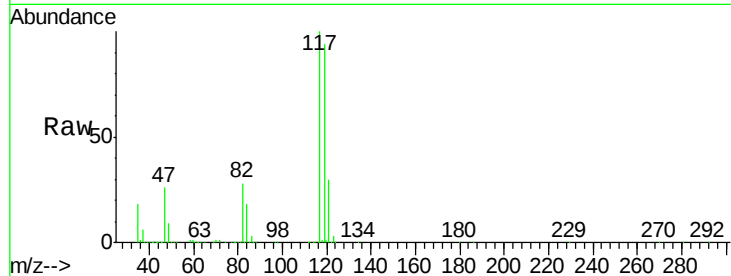
Tgt Ion:117 Resp: 2049324

Ion Ratio Lower Upper

117 100

119 94.1 75.3 112.9

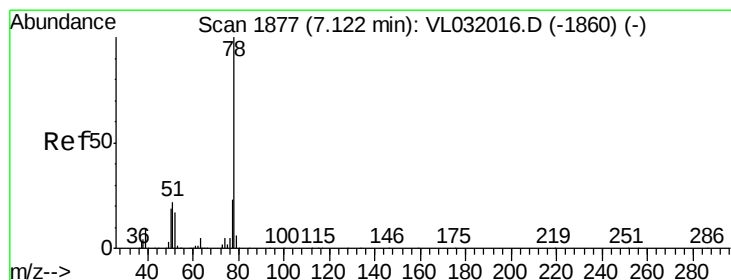
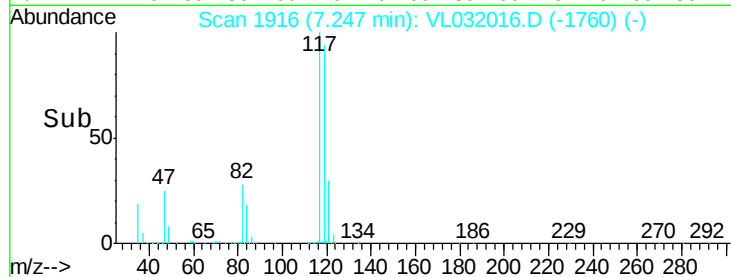
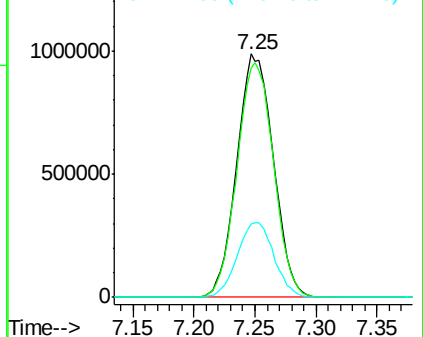
121 30.1 24.1 36.1



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: 9.30 ppbv

RT: 7.12 min Scan# 1877

Delta R.T. 0.00 min

Lab File: VL032016.D

Acq: 31 May 2018 16:04

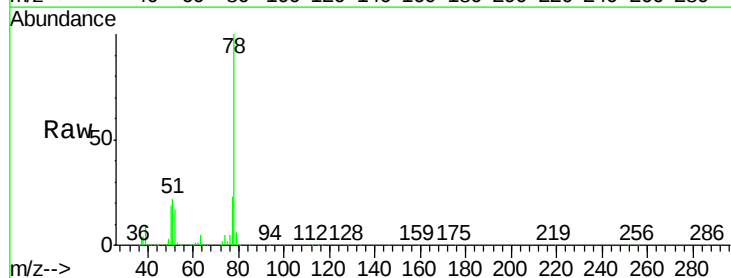
Tgt Ion: 78 Resp: 2295361

Ion Ratio Lower Upper

78 100

77 22.6 18.1 27.1

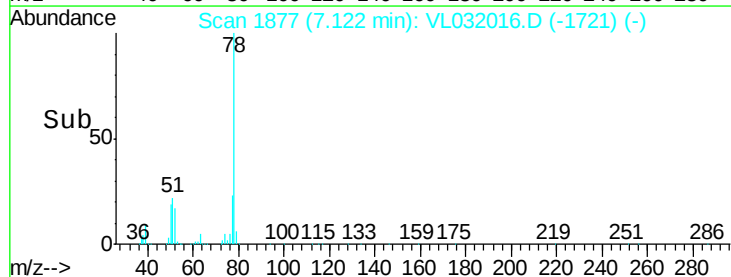
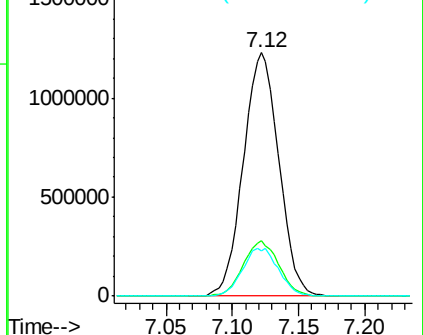
50 18.6 14.9 22.3

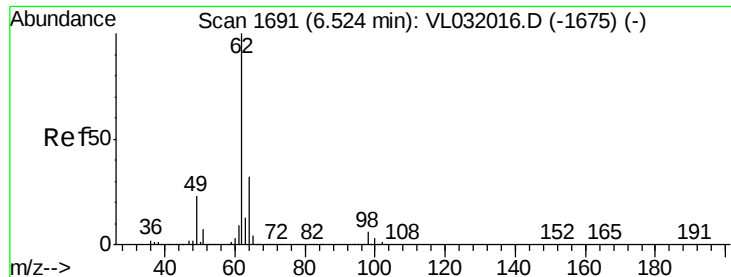


Abundance Ion 78.10 (77.80 to 78.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

Ion 50.10 (49.80 to 50.80): VL0

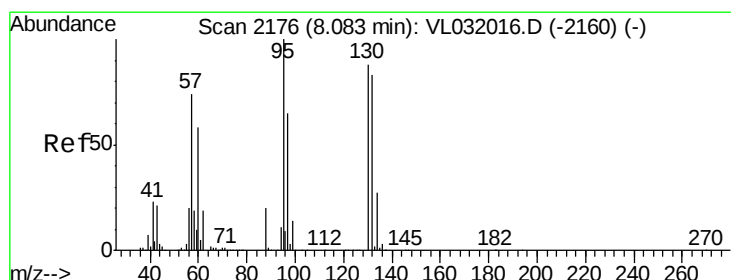
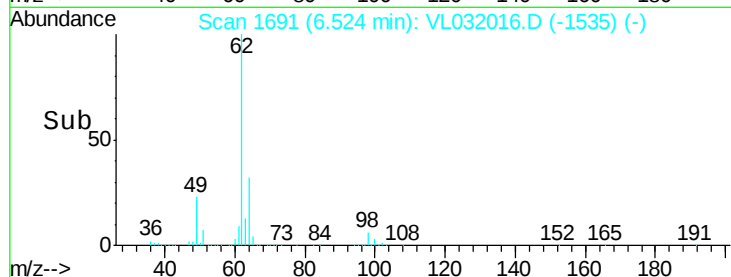
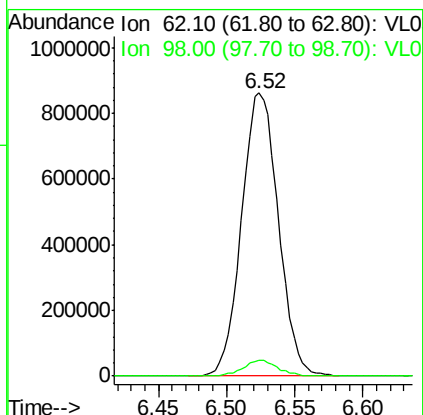
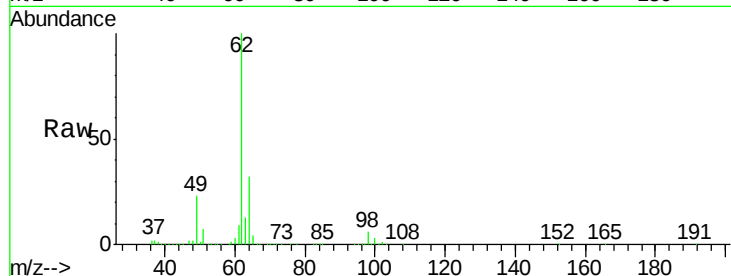




#37
 1,2-Dichloroethane
 Concen: 9.24 ppbv
 RT: 6.52 min Scan# 1691
 Delta R.T. 0.00 min
 Lab File: VL032016.D
 Acq: 31 May 2018 16:04

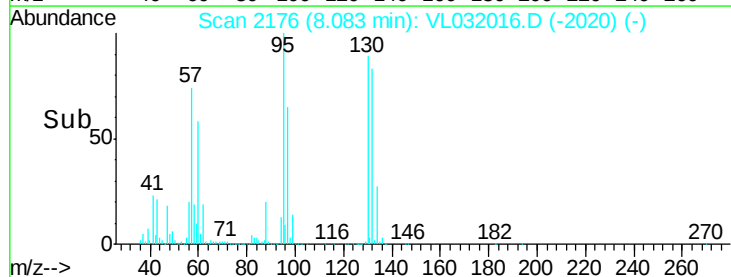
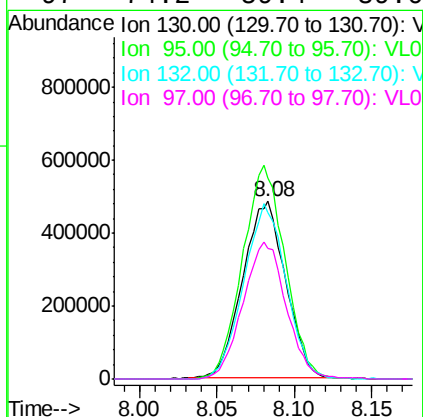
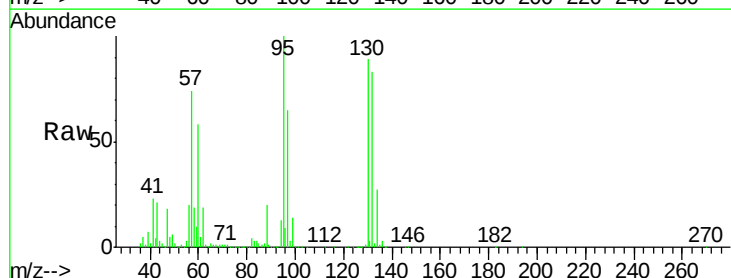
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

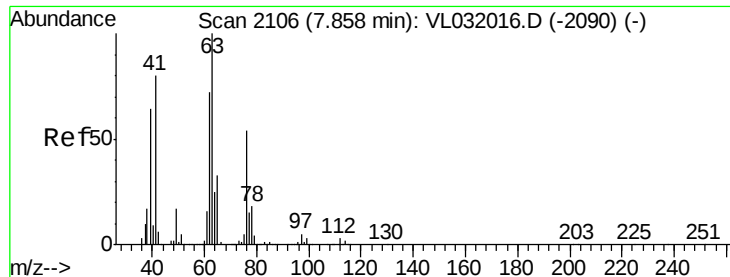
Tgt Ion: 62 Resp: 1613000
 Ion Ratio Lower Upper
 62 100
 98 5.3 4.2 6.4



#38
 Trichloroethene
 Concen: 9.95 ppbv
 RT: 8.08 min Scan# 2176
 Delta R.T. 0.00 min
 Lab File: VL032016.D
 Acq: 31 May 2018 16:04

Tgt Ion: 130 Resp: 938784
 Ion Ratio Lower Upper
 130 100
 95 113.4 90.7 136.1
 132 94.5 75.6 113.4
 97 74.2 59.4 89.0





#39

1,2-Dichloropropane

Concen: 9.68 ppbv

RT: 7.86 min Scan# 2106

Delta R.T. 0.00 min

Lab File: VL032016.D

Acq: 31 May 2018 16:04

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

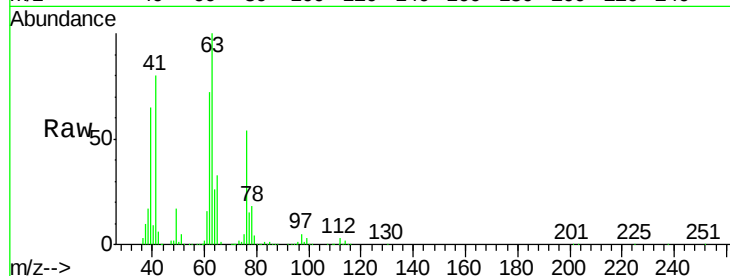
Tgt Ion: 63 Resp: 835790

Ion Ratio Lower Upper

63 100

41 80.0 64.0 96.0

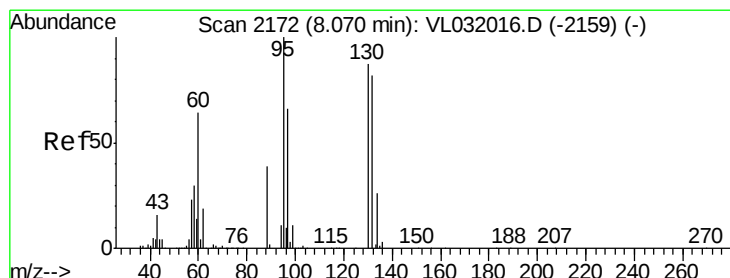
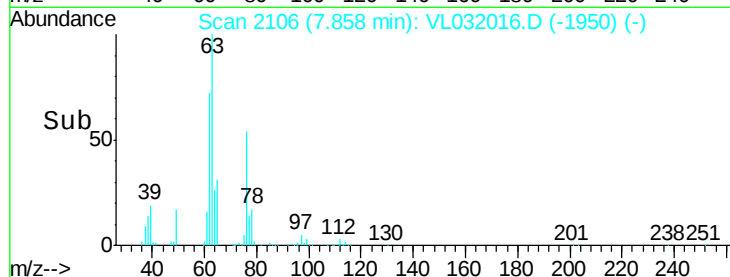
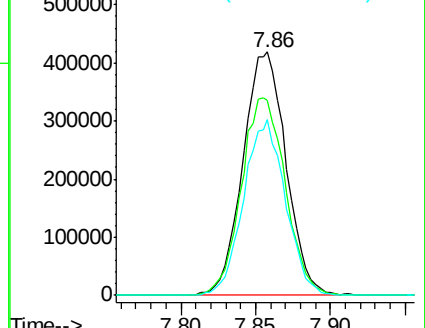
62 72.0 57.6 86.4



Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 62.10 (61.80 to 62.80): VL0



#40

1,4-Dioxane

Concen: 9.47 ppbv

RT: 8.07 min Scan# 2172

Delta R.T. 0.00 min

Lab File: VL032016.D

Acq: 31 May 2018 16:04

Tgt Ion: 88 Resp: 366849

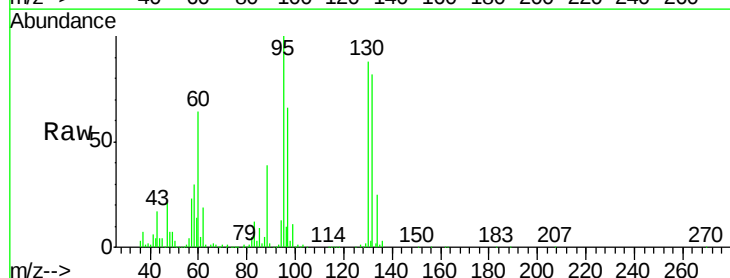
Ion Ratio Lower Upper

88 100

58 125.6 100.5 150.7

43 242.2 193.8 290.6

57 1067.4 853.9 1280.9

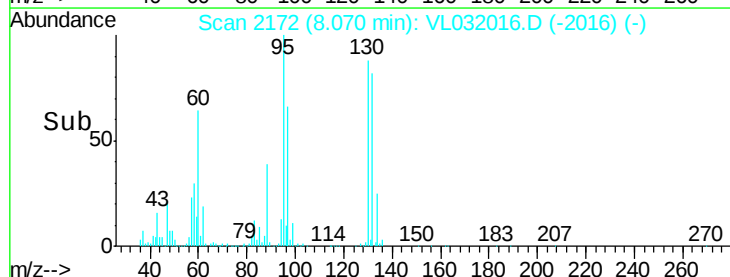
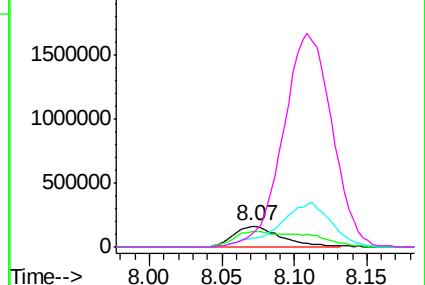


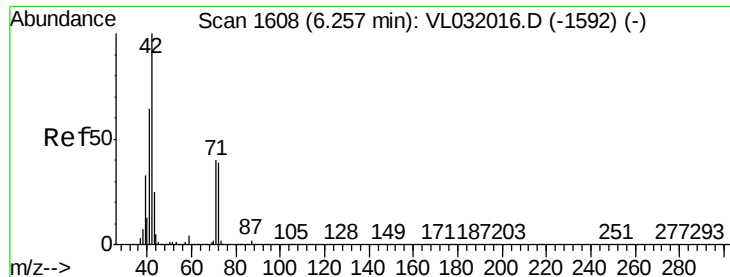
Abundance Ion 88.10 (87.80 to 88.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

Ion 43.10 (42.80 to 43.80): VL0

Ion 57.10 (56.80 to 57.80): VL0





#41

Tetrahydrofuran

Concen: 10.68 ppbv

RT: 6.26 min Scan# 1608

Delta R.T. 0.00 min

Lab File: VL032016.D

Acq: 31 May 2018 16:04

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

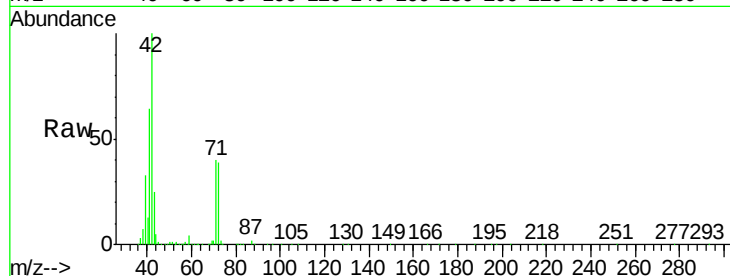
Tgt Ion: 42 Resp: 1000705

Ion Ratio Lower Upper

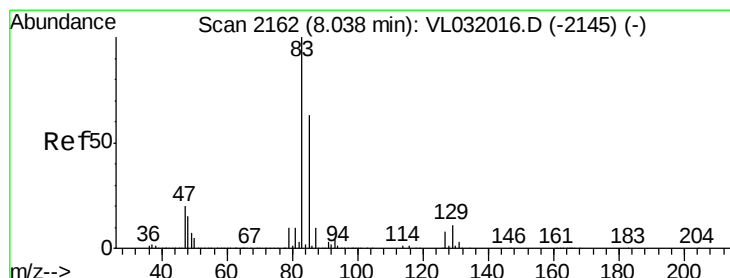
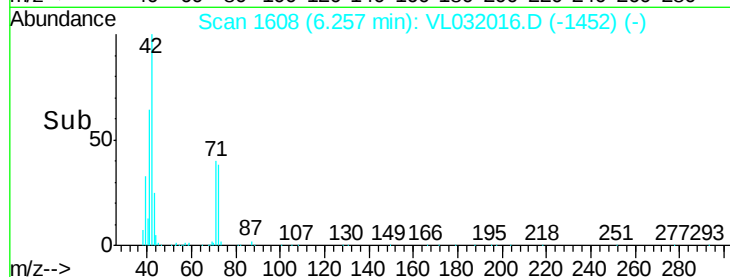
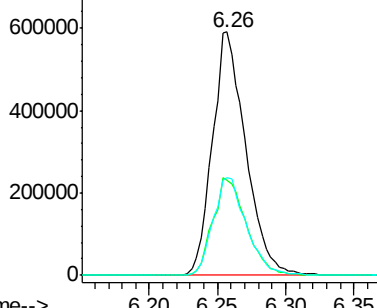
42 100

72 40.4 32.3 48.5

71 40.2 32.3 48.5



Abundance Ion 42.10 (41.80 to 42.80): VL0
Ion 72.10 (71.80 to 72.80): VL0
Ion 71.10 (70.80 to 71.80): VL0



#42

Bromodichloromethane

Concen: 10.00 ppbv

RT: 8.04 min Scan# 2162

Delta R.T. 0.00 min

Lab File: VL032016.D

Acq: 31 May 2018 16:04

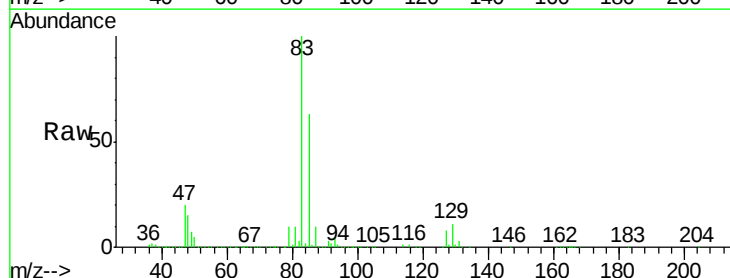
Tgt Ion: 83 Resp: 2001709

Ion Ratio Lower Upper

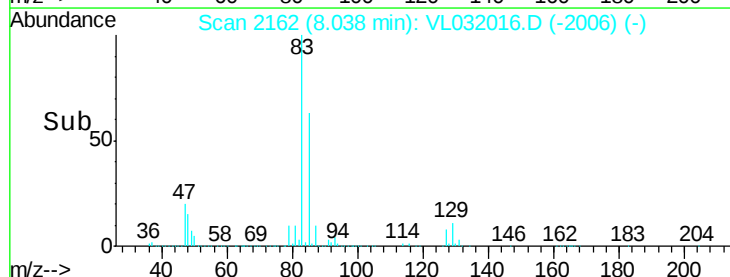
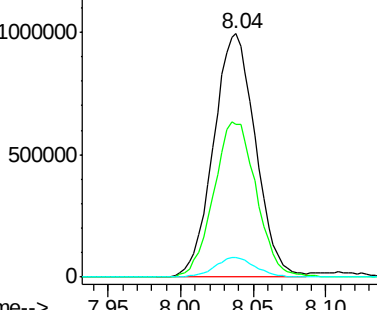
83 100

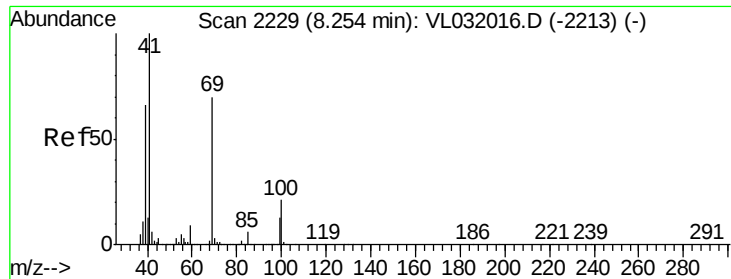
85 62.9 50.3 75.5

127 8.2 6.6 9.8



Abundance Ion 83.00 (82.70 to 83.70): VL0
Ion 85.00 (84.70 to 85.70): VL0
Ion 126.90 (126.60 to 127.60): V

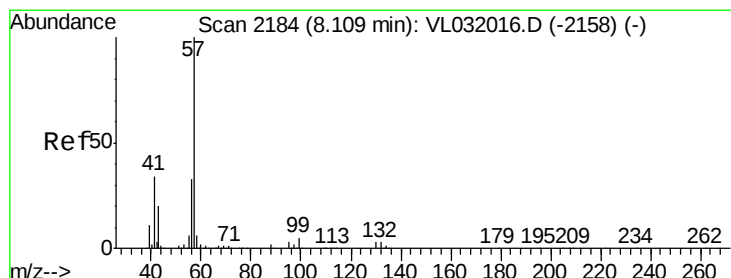
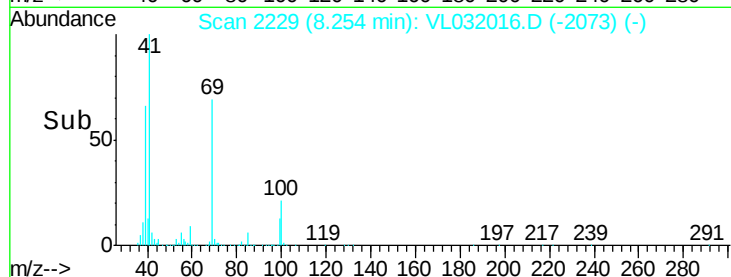
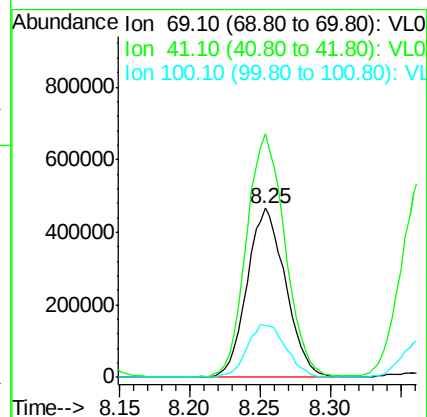
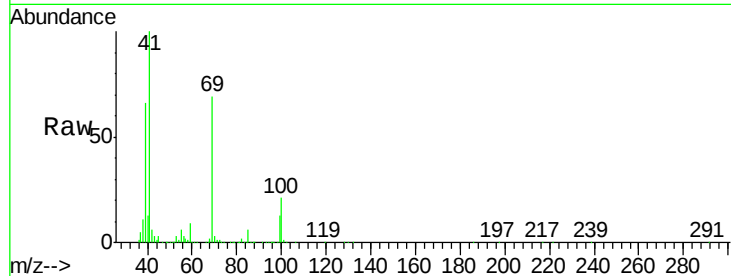




#43
Methyl Methacrylate
Concen: 10.57 ppbv
RT: 8.25 min Scan# 2229
Delta R.T. 0.00 min
Lab File: VL032016.D
Acq: 31 May 2018 16:04

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tgt Ion: 69 Resp: 890355
Ion Ratio Lower Upper
69 100
41 144.4 115.5 173.3
100 31.7 25.4 38.0



#44
2,2,4-Trimethylpentane
Concen: 9.74 ppbv
RT: 8.11 min Scan# 2184
Delta R.T. 0.00 min
Lab File: VL032016.D
Acq: 31 May 2018 16:04

Tgt Ion: 57 Resp: 3911740
Ion Ratio Lower Upper
57 100
41 33.3 26.6 40.0
56 31.1 24.9 37.3

