

Data File : VL032017.D

Acq On : 31 May 2018 16:46

Operator : SY/AP

Sample : VSTDIC002

Misc : 400ml/MSVOA_L

ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

Quant Time: Jun 01 02:01:16 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	5.86	49	1428890	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.40	114	2729334	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.36	117	2711047	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.70	95	2049703	9.73	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	97.30%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	3.15	85	303756	1.67	ppbv	95
3) Chlorodifluoromethane	3.08	51	273315	2.04	ppbv	98
4) Chloromethane	3.24	50	142440	2.05	ppbv	97
5) Vinyl Chloride	3.37	62	150553	1.90	ppbv	96
6) Bromomethane	3.59	94	105280	2.04	ppbv	97
7) Chloroethane	3.68	64	62788	2.07	ppbv	100
8) Dichlorotetrafluoroethane	3.29	85	374302	2.01	ppbv	99
9) Propene	3.11	41	90399	1.86	ppbv	94
10) Heptane	8.36	43	331766	1.96	ppbv	98
11) Trichlorofluoromethane	4.09	101	586076	2.53	ppbv	97
12) 1,1,2-Trichlorotrifluoroet	4.64	101	372697	2.26	ppbv	99
13) Ethanol	3.73	45	32879	1.80	ppbv	98
14) Bromoethene	3.87	108	141980	2.39	ppbv	97
15) Acetone	3.99	43	393937	1.97	ppbv	98
16) 1,3-Butadiene	3.44	39	126077	1.95	ppbv	92
17) tert-Butyl alcohol	4.45	59	100684	1.21	ppbv #	75
18) 1,1-Dichloroethene	4.44	96	165117	2.30	ppbv	97
19) Isopropyl Alcohol	4.11	45	250442	2.25	ppbv #	97
20) Methylene Chloride	4.50	84	164653	2.39	ppbv	97
21) Allyl Chloride	4.57	41	251084	2.16	ppbv	97
22) trans-1,2-Dichloroethene	5.06	96	169339	2.12	ppbv	97
23) Vinyl Acetate	5.25	43	476408	2.05	ppbv	97
24) 1,1-Dichloroethane	5.19	63	459829	2.10	ppbv	97
25) Ethyl Acetate	5.87	43	726072	2.09	ppbv	100
26) Hexane	5.88	57	344365	2.10	ppbv	99
27) Carbon Disulfide	4.71	76	422633	2.24	ppbv	100
28) Methyl tert-Butyl Ether	5.22	73	414758	2.06	ppbv	100
29) Chloroform	5.95	83	569151	2.18	ppbv	97
30) Cyclohexane	7.36	84	205388	1.90	ppbv	90
31) cis-1,2-Dichloroethene	5.74	61	301196	2.00	ppbv	98
32) 1,1,1-Trichloroethane	6.73	97	430702	1.81	ppbv	99
34) 2-Butanone	5.43	43	454292	2.01	ppbv	100
35) Carbon Tetrachloride	7.25	117	457509	2.09	ppbv	95
36) Benzene	7.12	78	505878	1.97	ppbv	98
37) 1,2-Dichloroethane	6.52	62	365406	2.02	ppbv	100
38) Trichloroethene	8.08	130	211329	2.16	ppbv	97
39) 1,2-Dichloropropane	7.85	63	183234	2.04	ppbv	96
40) 1,4-Dioxane	8.09	88	71908	1.79	ppbv	69
41) Tetrahydrofuran	6.26	42	100170	1.03	ppbv #	35
42) Bromodichloromethane	8.03	83	452107	2.17	ppbv	96
43) Methyl Methacrylate	8.25	69	181227	2.07	ppbv	99

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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

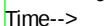
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	8.11	57	880833	2.11	ppbv	99
45) t-1,3-Dichloropropene	9.54	75	237161	2.04	ppbv	97
46) cis-1,3-Dichloropropene	8.95	75	300196	2.10	ppbv	99
47) 1,1,2-Trichloroethane	9.74	97	228662	2.15	ppbv	94
48) Dibromochloromethane	10.58	129	373385	2.17	ppbv	99
49) Bromoform	13.33	173	302209	2.25	ppbv	97
50) 4-Methyl-2-Pentanone	8.99	43	451820	2.12	ppbv	98
51) 2-Hexanone	10.40	43	404786	2.09	ppbv #	95
52) Tetrachloroethene	11.50	164	135425	1.42	ppbv	96
53) Toluene	10.07	91	588816	2.12	ppbv	98
54) 1,2-Dibromoethane	10.89	107	336266	2.12	ppbv	88
56) 1,1,1,2-Tetrachloroethane	12.41	131	152109	1.22	ppbv #	19
57) Chlorobenzene	12.43	112	517714	2.18	ppbv	98
58) Ethyl Benzene	12.99	91	846344	2.15	ppbv	97
59) m/p-Xylene	13.27	91	951265	2.83	ppbv #	64
60) o-Xylene	13.97	91	758424	2.25	ppbv	98
61) Styrene	13.81	104	136046	2.00	ppbv	97
62) Isopropylbenzene	14.95	105	939822	2.19	ppbv	99
63) 1,1,2,2-Tetrachloroethane	13.96	83	536049	2.25	ppbv	100
64) n-propylbenzene	15.85	120	233117	2.16	ppbv	96
65) tert-Butylbenzene	17.03	119	821854	2.15	ppbv	98
66) Benzyl Chloride	17.29	91	33455	0.94	ppbv #	33
67) sec-Butylbenzene	17.58	105	1195517	2.25	ppbv	99
69) p-Isopropyltoluene	17.94	119	948114	2.23	ppbv	100
70) n-Butylbenzene	18.84	91	947877	2.16	ppbv	100
71) 2-Chlorotoluene	15.74	91	690169	2.19	ppbv	100
72) 4-Ethyltoluene	16.12	105	745913	2.18	ppbv	99
73) 1,3,5-Trimethylbenzene	16.28	105	677484	2.15	ppbv	98
74) 1,2,4-Trimethylbenzene	17.05	105	747415	2.14	ppbv	95
75) 1,3-Dichlorobenzene	17.29	146	497352	2.29	ppbv	99
76) 1,4-Dichlorobenzene	17.43	146	482673	2.25	ppbv	99
77) 1,2-Dichlorobenzene	18.11	146	482435	2.23	ppbv	99
78) Hexachloro-1,3-Butadiene	23.66	225	189601	2.14	ppbv	99
79) Naphthalene	22.56	128	171701	0.72	ppbv	99
80) Naphthalene,2-methyl-	25.21	142	38860	0.61	ppbv	96
81) 1,2,4-Trichlorobenzene	22.28	180	117013	0.88	ppbv #	12

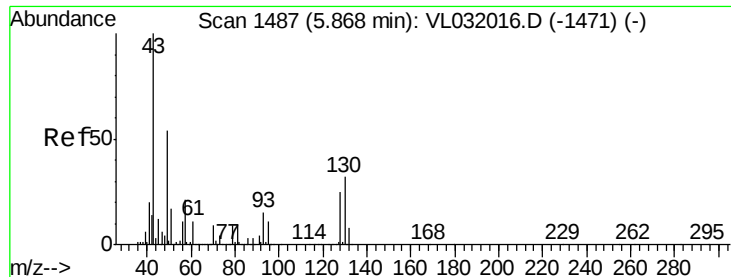
(#)=qualifier out of range (m)=manual integration (+)=signals summed

ALS Vial : 1 Sample Multiplier: 1

VSTDICC002

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#1

Bromochloromethane

Concen: 10.00 ppbv

RT: 5.86 min Scan# 1486

Delta R.T. -0.00 min

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VSTDIC002

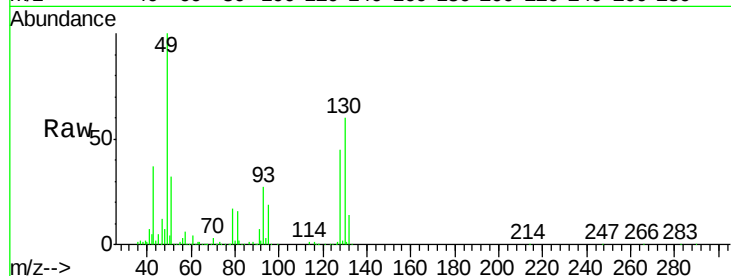
Tgt Ion: 49 Resp: 1428890

Ion Ratio Lower Upper

49 100

128 48.6 24.1 72.3

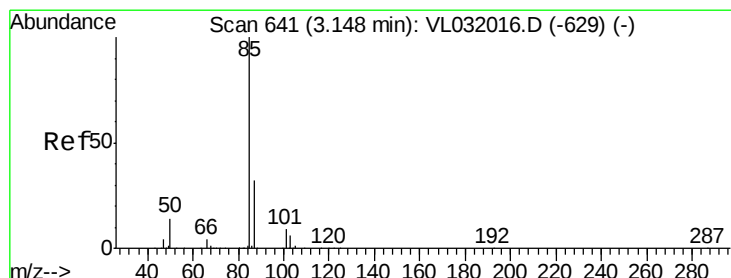
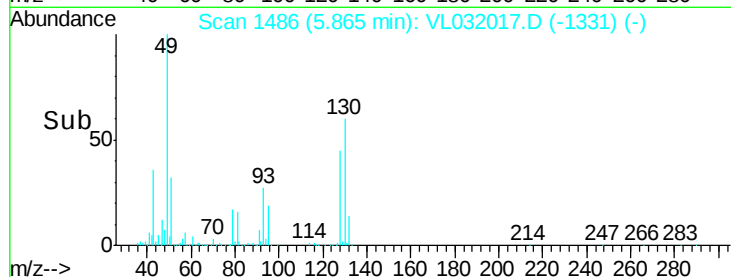
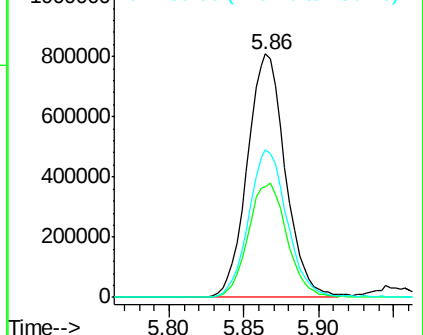
130 62.1 30.9 92.8



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): V

Ion 130.00 (129.70 to 130.70): V



#2

Dichlorodifluoromethane

Concen: 1.67 ppbv

RT: 3.15 min Scan# 641

Delta R.T. 0.00 min

Lab File: VL032017.D

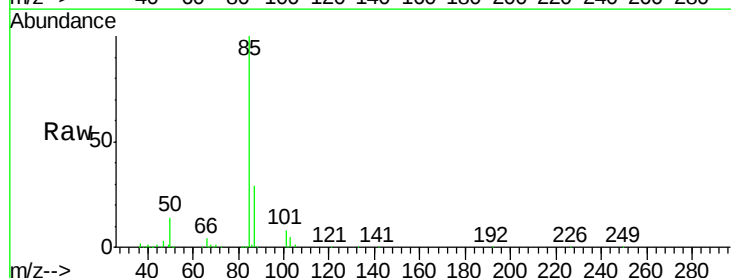
Acq: 31 May 2018 16:46

Tgt Ion: 85 Resp: 303756

Ion Ratio Lower Upper

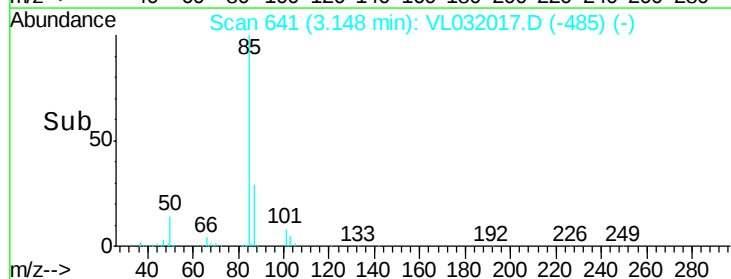
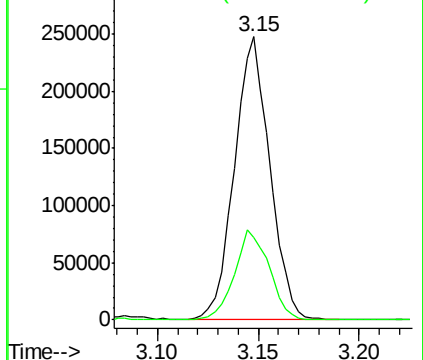
85 100

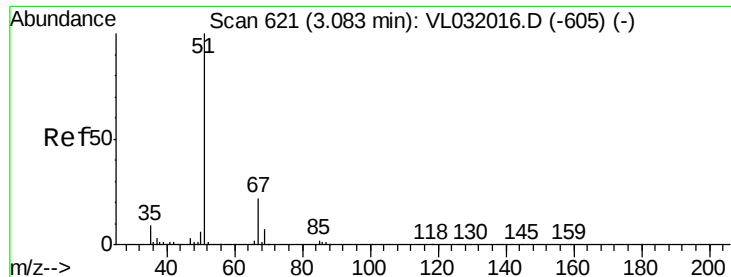
87 29.2 25.5 38.3



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 2.04 ppbv

RT: 3.08 min Scan# 621

Delta R.T. 0.00 min

Lab File: VL032017.D

Acq: 31 May 2018 16:46

Instrument :

MSVOA_L

ClientSampleId :

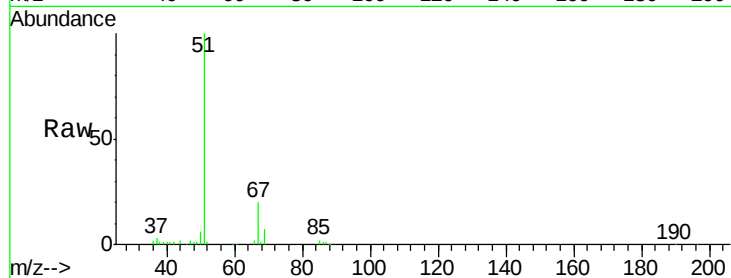
VSTDIC002

Tgt Ion: 51 Resp: 273315

Ion Ratio Lower Upper

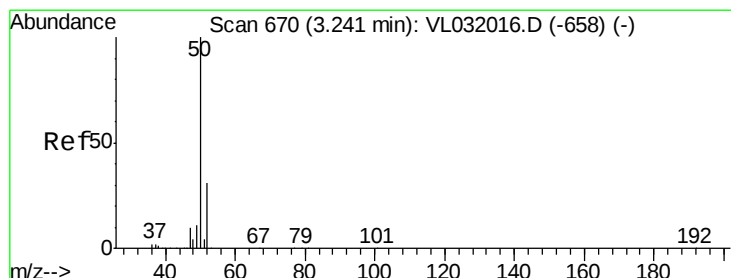
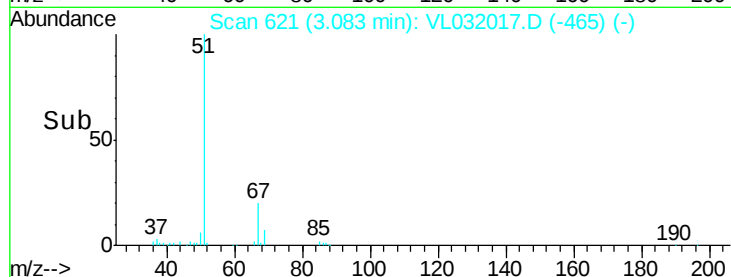
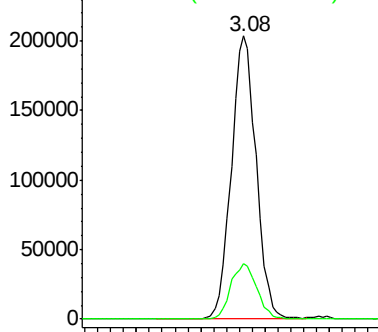
51 100

67 20.7 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: 2.05 ppbv

RT: 3.24 min Scan# 670

Delta R.T. 0.00 min

Lab File: VL032017.D

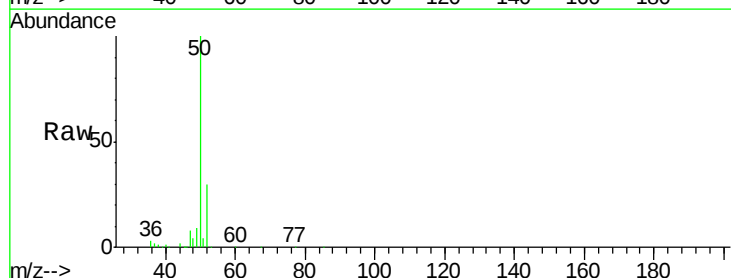
Acq: 31 May 2018 16:46

Tgt Ion: 50 Resp: 142440

Ion Ratio Lower Upper

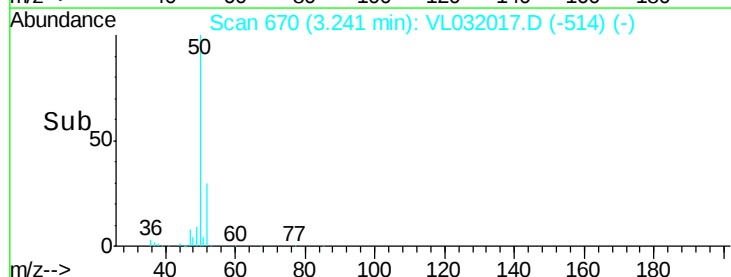
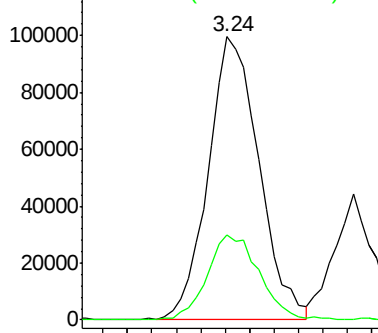
50 100

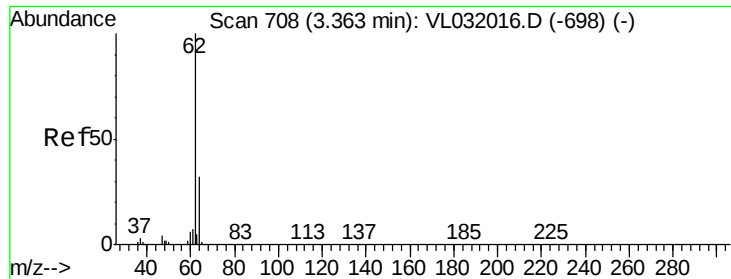
52 29.7 25.0 37.6



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#5

Vinyl Chloride

Concen: 1.90 ppbv

RT: 3.37 min Scan# 709

Delta R.T. 0.00 min

Lab File: VL032017.D

Acq: 31 May 2018 16:46

Instrument :

MSVOA_L

ClientSampleId :

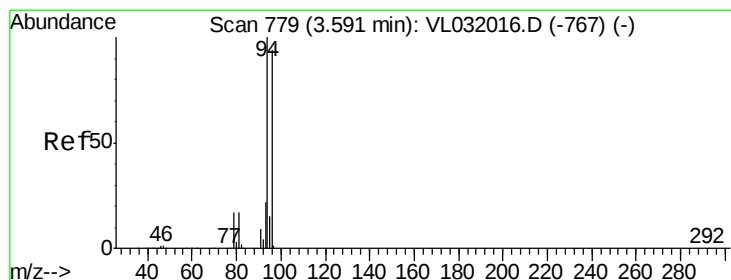
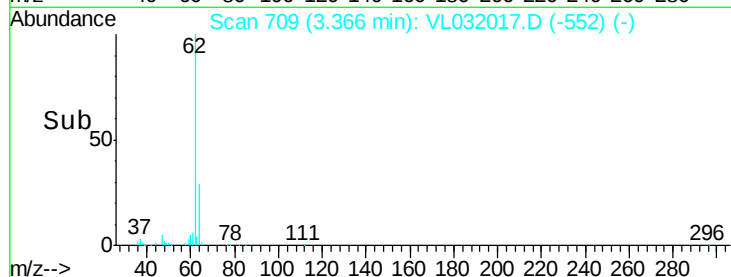
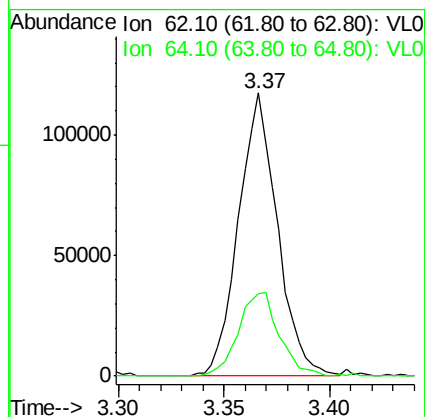
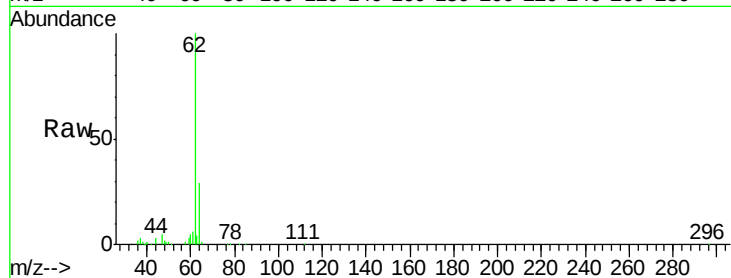
VSTDIC002

Tgt Ion: 62 Resp: 150553

Ion Ratio Lower Upper

62 100

64 29.2 25.2 37.8



#6

Bromomethane

Concen: 2.04 ppbv

RT: 3.59 min Scan# 780

Delta R.T. 0.00 min

Lab File: VL032017.D

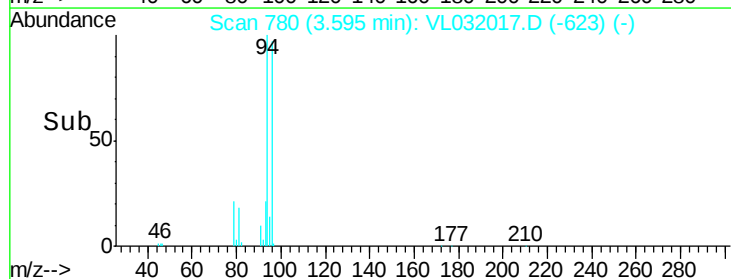
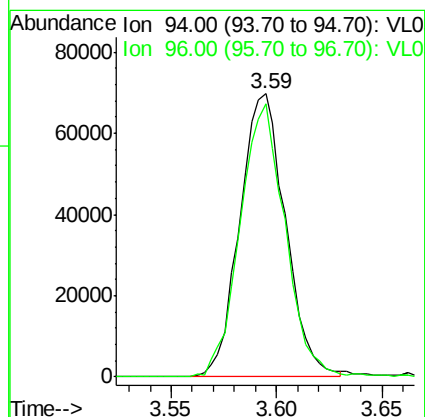
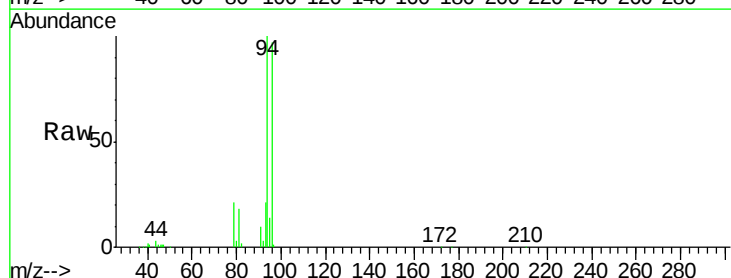
Acq: 31 May 2018 16:46

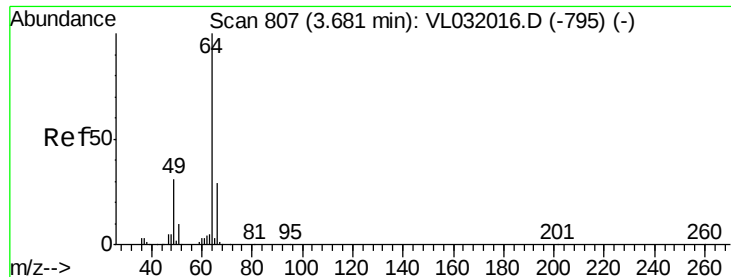
Tgt Ion: 94 Resp: 105280

Ion Ratio Lower Upper

94 100

96 96.6 75.1 112.7





#7

Chloroethane

Concen: 2.07 ppbv

RT: 3.68 min Scan# 808

Delta R.T. 0.00 min

Lab File: VL032017.D

Acq: 31 May 2018 16:46

Instrument :

MSVOA_L

ClientSampleId :

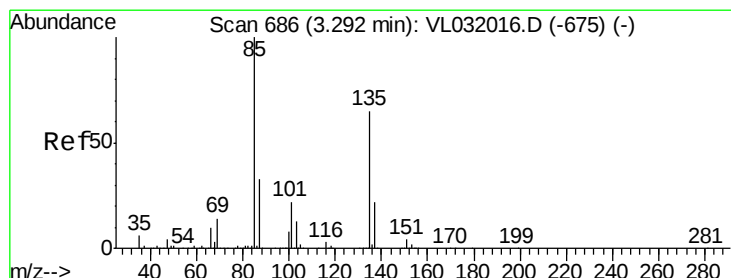
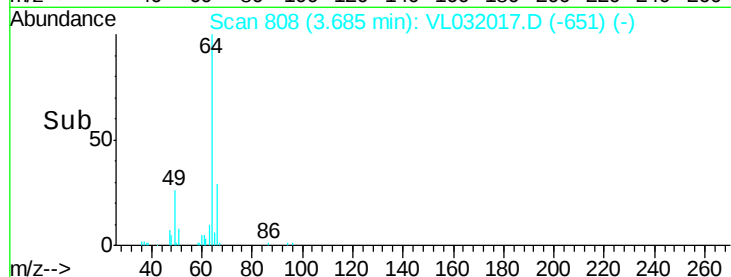
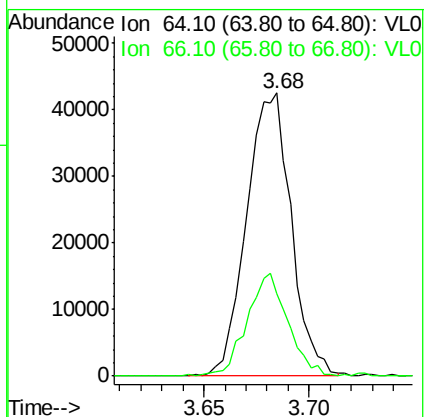
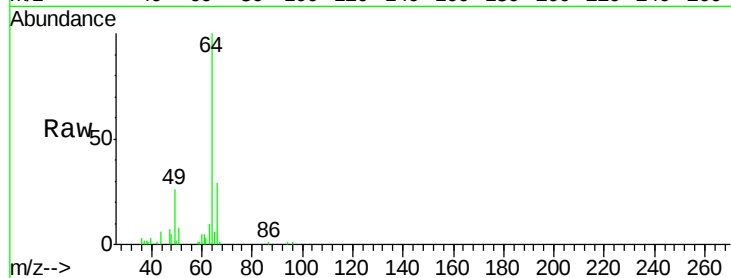
VSTDIC002

Tgt Ion: 64 Resp: 62788

Ion Ratio Lower Upper

64 100

66 29.0 23.4 35.2



#8

Dichlorotetrafluoroethane

Concen: 2.01 ppbv

RT: 3.29 min Scan# 686

Delta R.T. 0.00 min

Lab File: VL032017.D

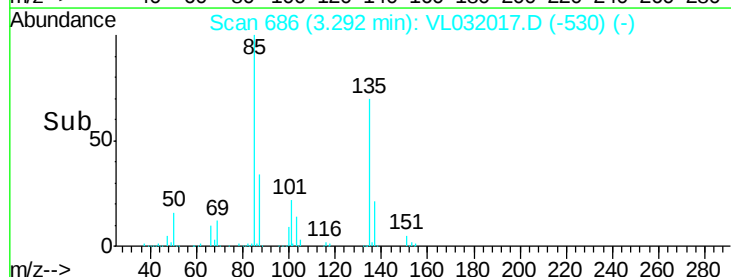
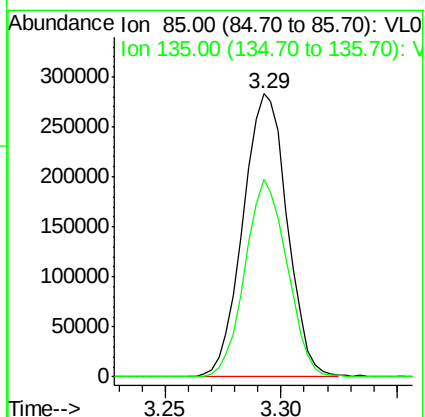
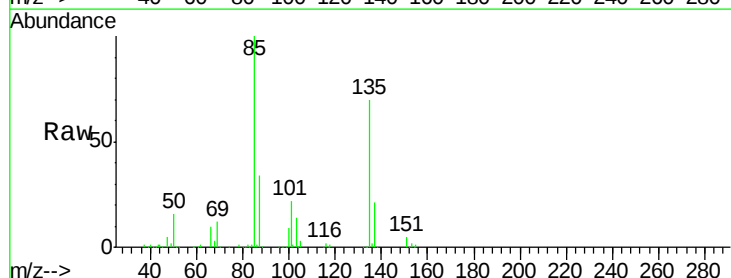
Acq: 31 May 2018 16:46

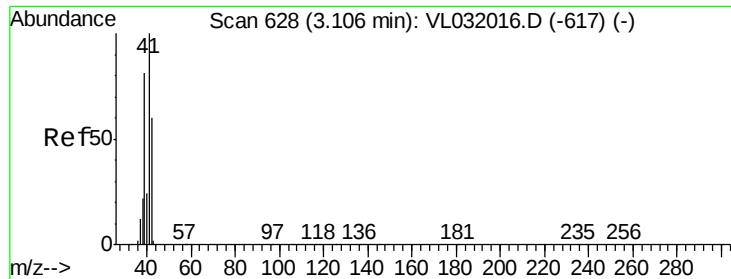
Tgt Ion: 85 Resp: 374302

Ion Ratio Lower Upper

85 100

135 66.6 52.6 79.0





#9

Propene

Concen: 1.86 ppbv

RT: 3.11 min Scan# 629

Delta R.T. 0.00 min

Lab File: VL032017.D

Acq: 31 May 2018 16:46

Instrument :

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ClientSampleId :

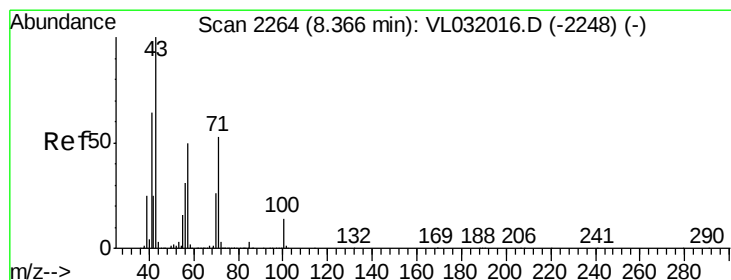
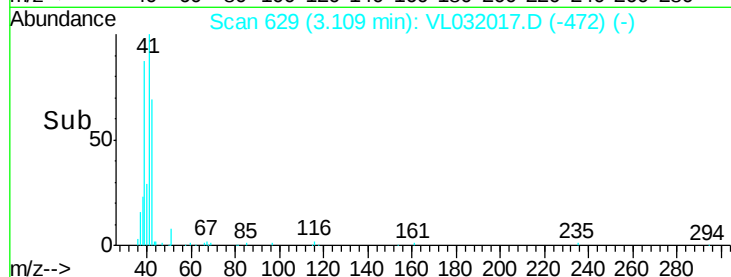
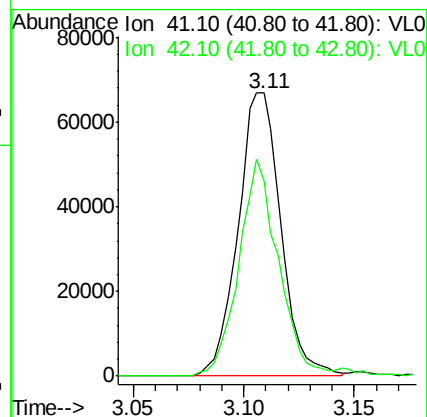
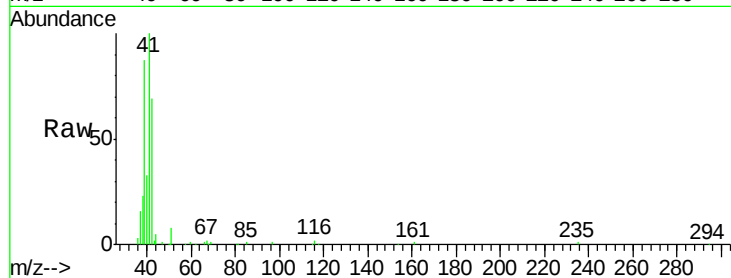
VSTDIC002

Tgt Ion: 41 Resp: 90399

Ion Ratio Lower Upper

41 100

42 72.5 54.4 81.6



#10

Heptane

Concen: 1.96 ppbv

RT: 8.36 min Scan# 2263

Delta R.T. -0.00 min

Lab File: VL032017.D

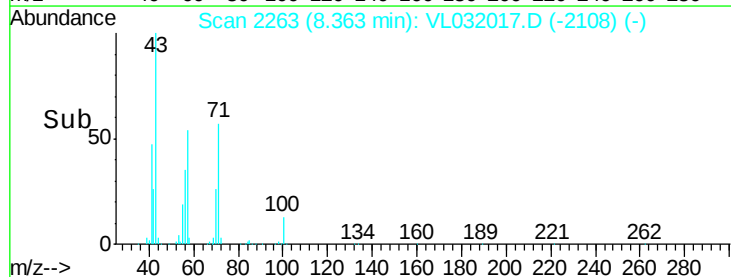
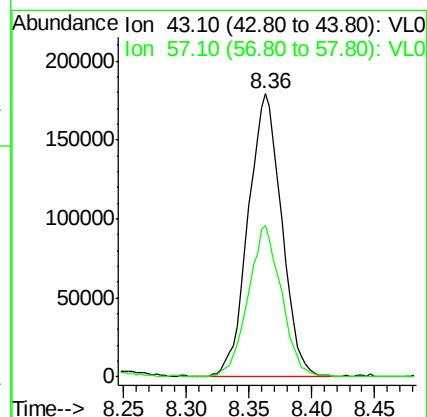
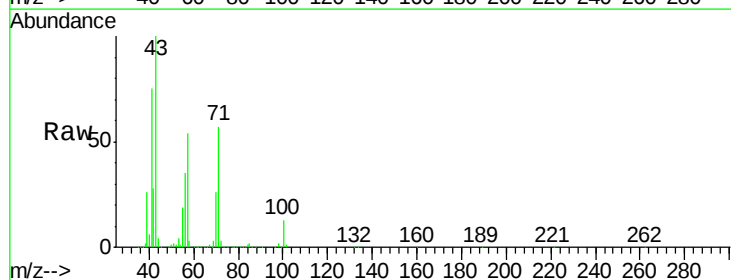
Acq: 31 May 2018 16:46

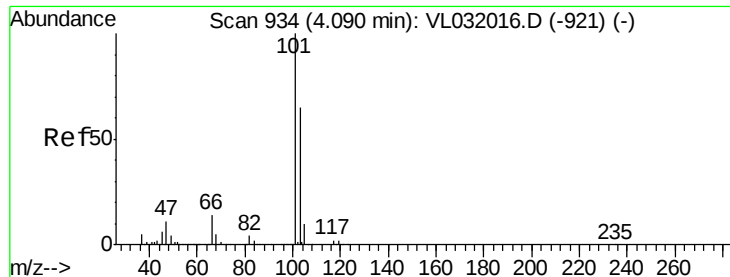
Tgt Ion: 43 Resp: 331766

Ion Ratio Lower Upper

43 100

57 53.4 41.7 62.5





#11

Trichlorofluoromethane

Concen: 2.53 ppbv

RT: 4.09 min Scan# 935

Delta R.T. 0.00 min

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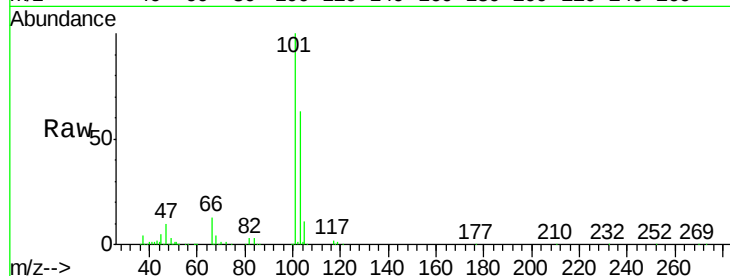
VSTDIC002

Tgt Ion:101 Resp: 586076

Ion Ratio Lower Upper

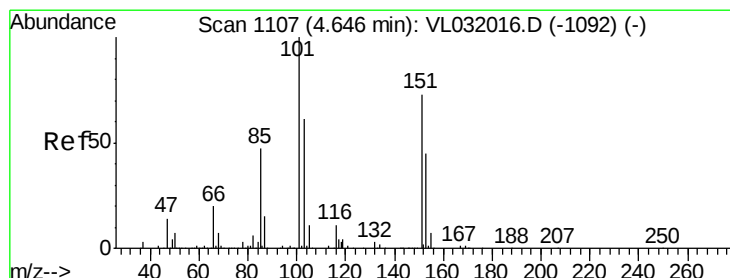
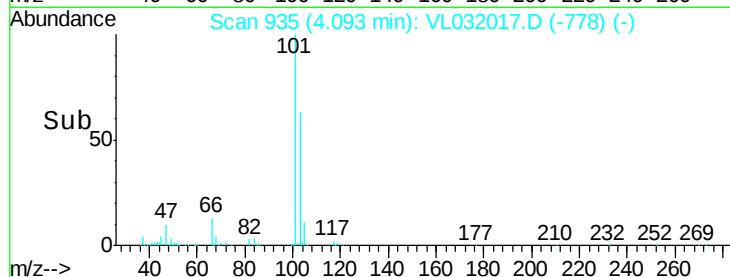
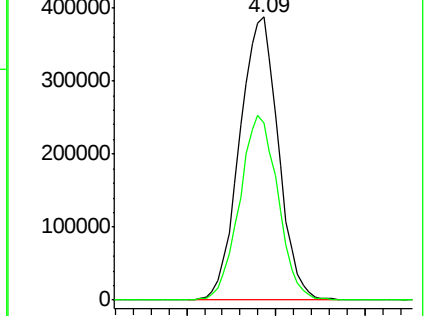
101 100

103 62.6 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: 2.26 ppbv

RT: 4.64 min Scan# 1106

Delta R.T. -0.00 min

Lab File: VL032017.D

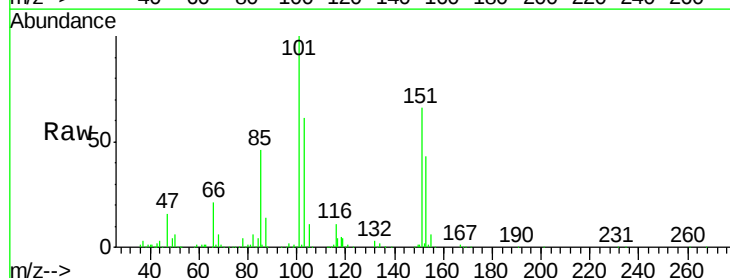
Acq: 31 May 2018 16:46

Tgt Ion:101 Resp: 372697

Ion Ratio Lower Upper

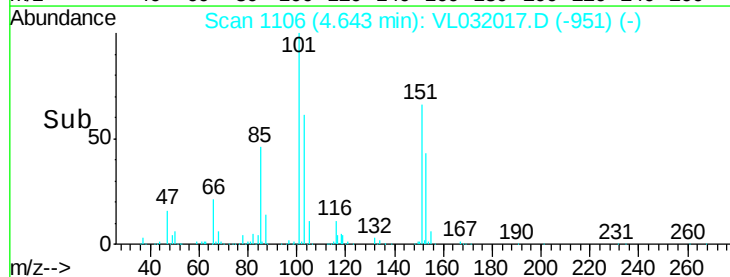
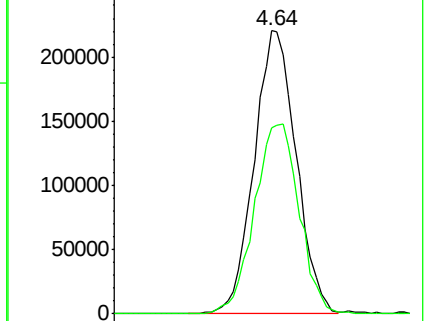
101 100

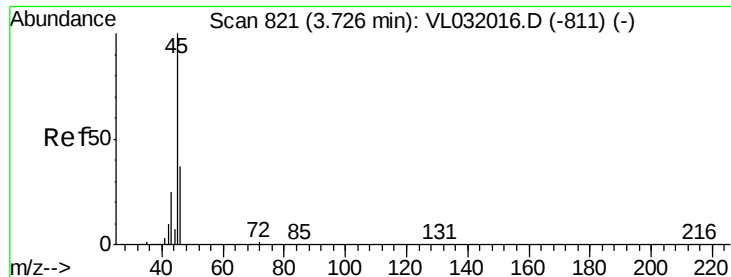
151 71.7 58.2 87.4



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 151.00 (150.70 to 151.70): V





#13

Ethanol

Concen: 1.80 ppbv

RT: 3.73 min Scan# 823

Delta R.T. 0.01 min

Lab File: VL032017.D

Acq: 31 May 2018 16:46

Instrument :

MSVOA_L

ClientSampleId :

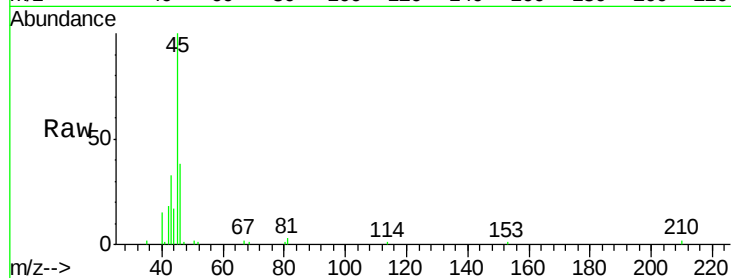
VSTDIC002

Tgt Ion: 45 Resp: 32879

Ion Ratio Lower Upper

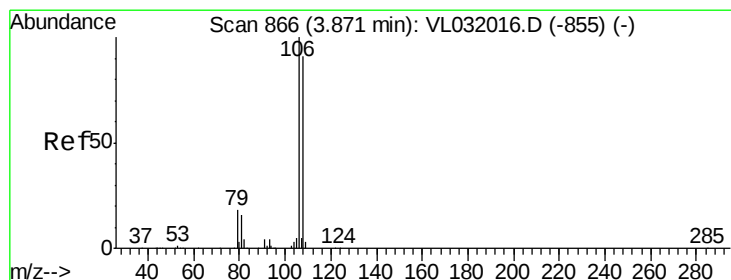
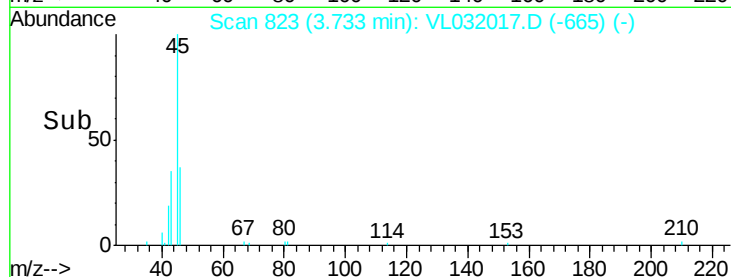
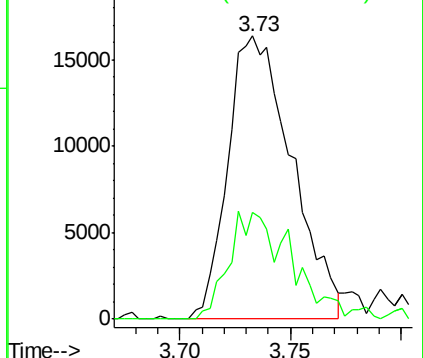
45 100

46 38.2 14.9 59.5



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 46.10 (45.80 to 46.80): VL0



#14

Bromoethene

Concen: 2.39 ppbv

RT: 3.87 min Scan# 866

Delta R.T. 0.00 min

Lab File: VL032017.D

Acq: 31 May 2018 16:46

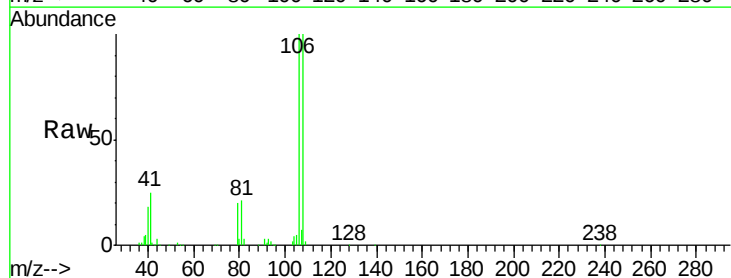
Tgt Ion: 108 Resp: 141980

Ion Ratio Lower Upper

108 100

106 108.9 85.1 127.7

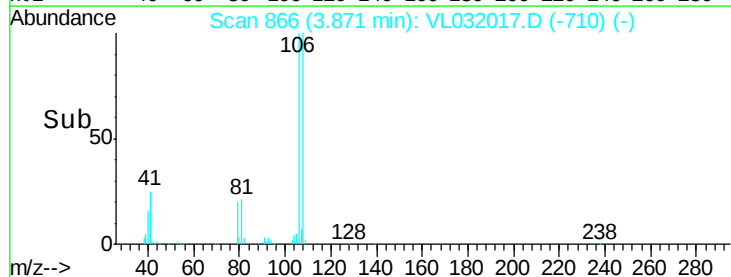
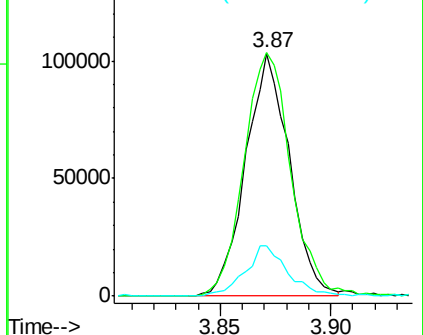
79 20.9 15.2 22.8

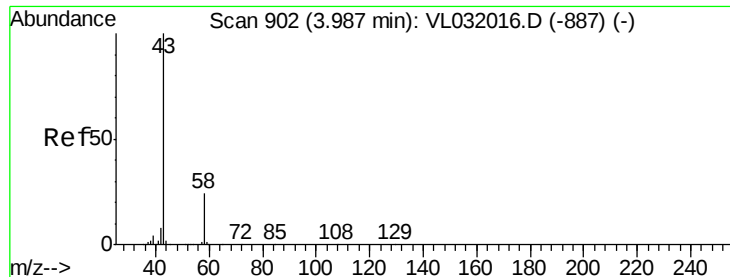


Abundance Ion 108.00 (107.70 to 108.70): V

Ion 106.00 (105.70 to 106.70): V

Ion 79.00 (78.70 to 79.70): VL0





#15

Acetone

Concen: 1.97 ppbv

RT: 3.99 min Scan# 903

Delta R.T. 0.00 min

Lab File: VL032017.D

Acq: 31 May 2018 16:46

Instrument :

MSVOA_L

ClientSampleId :

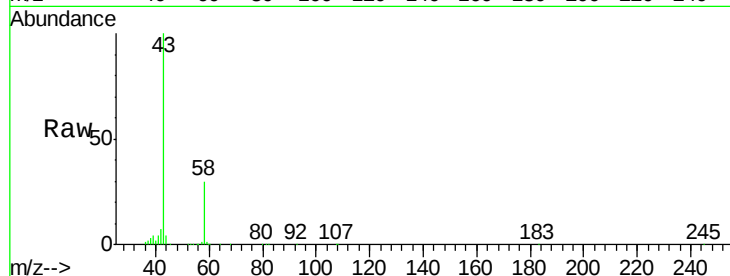
VSTDIC002

Tgt Ion: 43 Resp: 393937

Ion Ratio Lower Upper

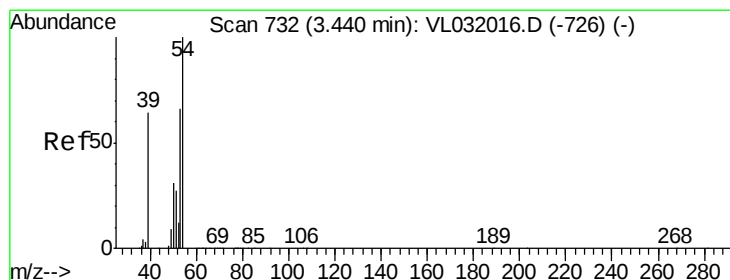
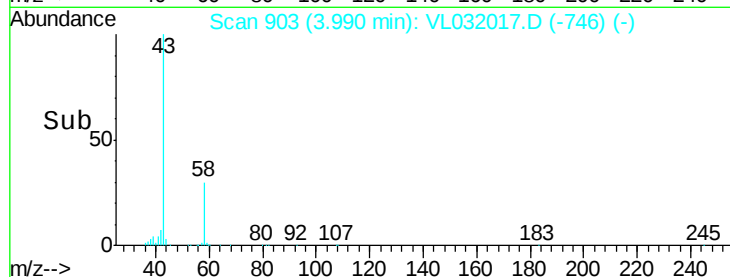
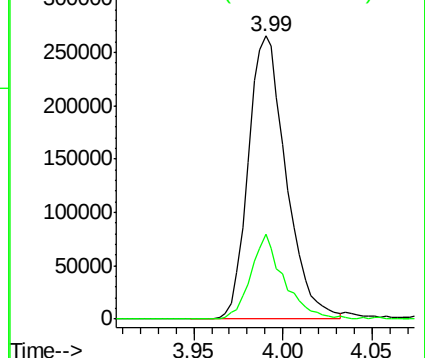
43 100

58 26.8 20.7 31.1



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0



#16

1,3-Butadiene

Concen: 1.95 ppbv

RT: 3.44 min Scan# 731

Delta R.T. -0.00 min

Lab File: VL032017.D

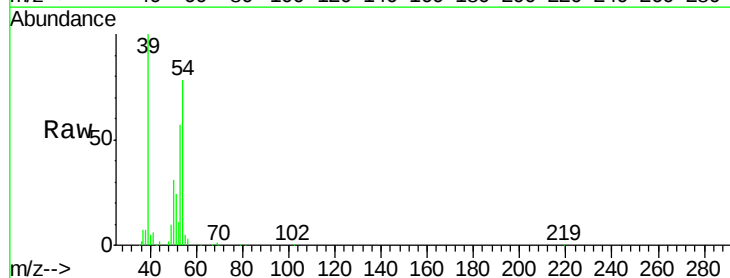
Acq: 31 May 2018 16:46

Tgt Ion: 39 Resp: 126077

Ion Ratio Lower Upper

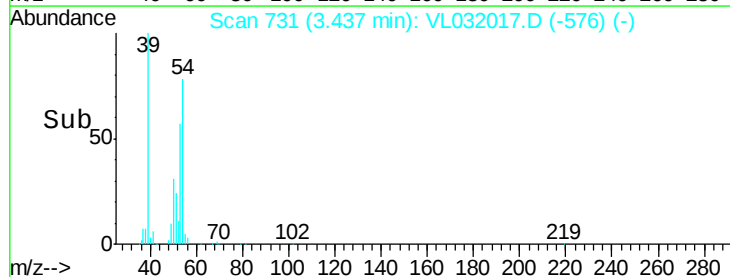
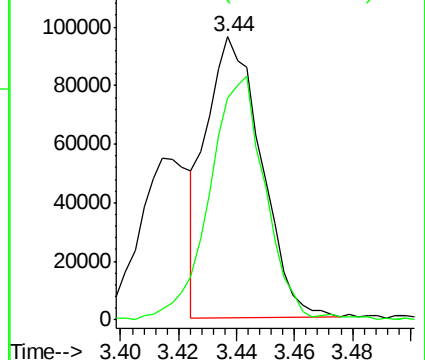
39 100

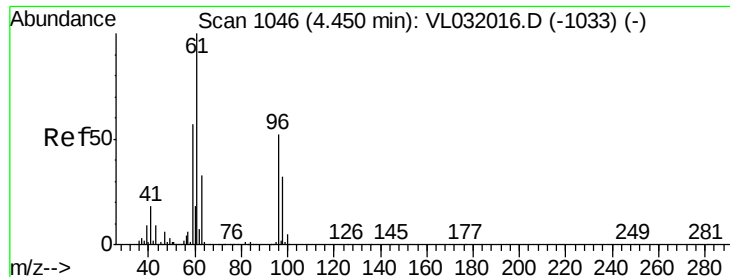
54 89.4 65.7 98.5



Abundance Ion 39.10 (38.80 to 39.80): VL0

Ion 54.10 (53.80 to 54.80): VL0





#17

tert-Butyl alcohol

Concen: 1.21 ppbv

RT: 4.45 min Scan# 1046

Delta R.T. 0.00 min

Lab File: VL032017.D

Acq: 31 May 2018 16:46

Instrument :

MSVOA_L

ClientSampleId :

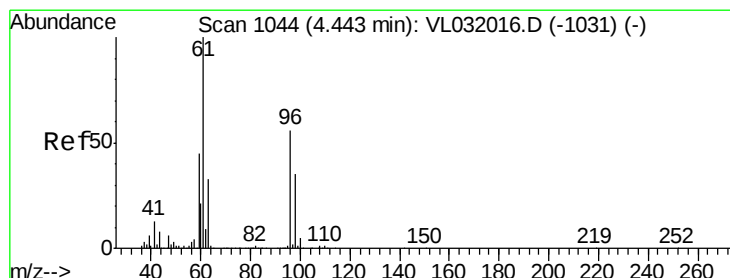
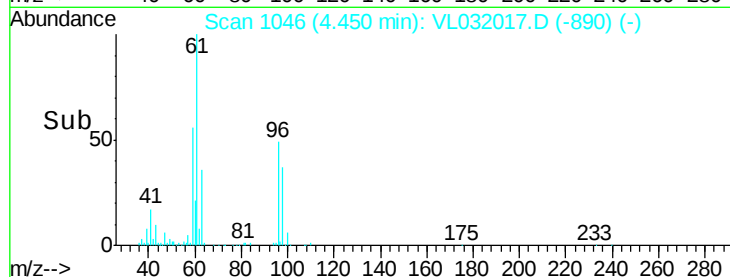
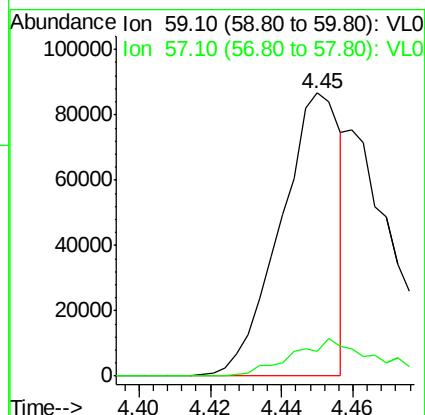
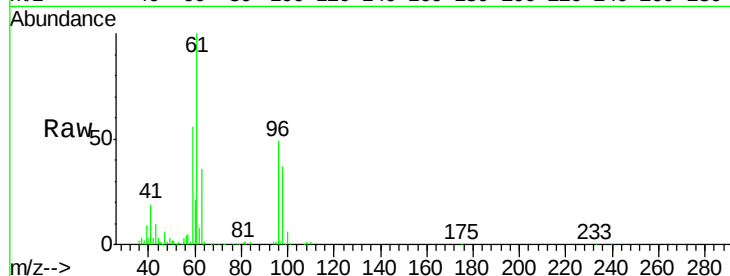
VSTDIC002

Tgt Ion: 59 Resp: 100684

Ion Ratio Lower Upper

59 100

57 19.8 8.3 12.5#



#18

1,1-Dichloroethene

Concen: 2.30 ppbv

RT: 4.44 min Scan# 1043

Delta R.T. -0.00 min

Lab File: VL032017.D

Acq: 31 May 2018 16:46

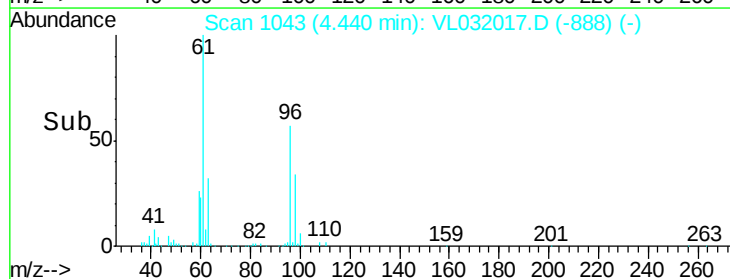
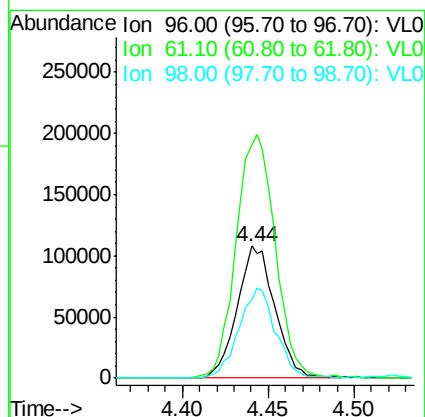
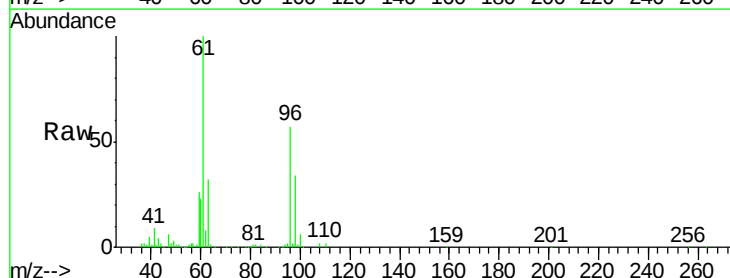
Tgt Ion: 96 Resp: 165117

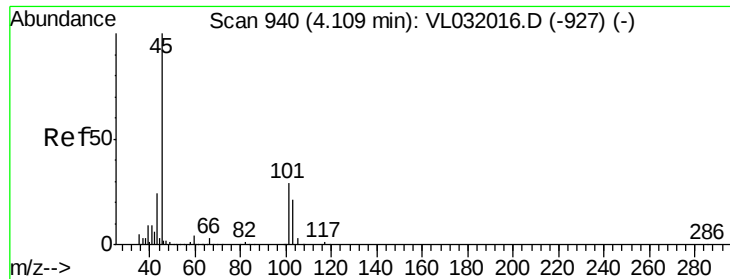
Ion Ratio Lower Upper

96 100

61 176.4 143.5 215.3

98 59.2 50.0 75.0



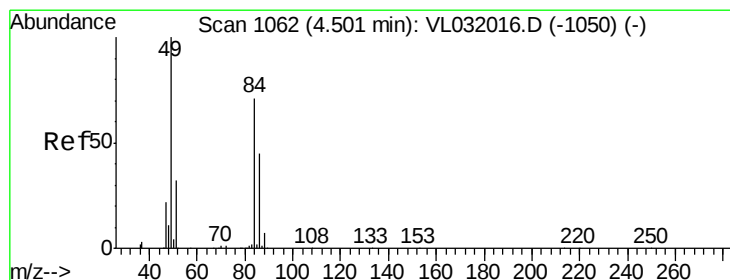
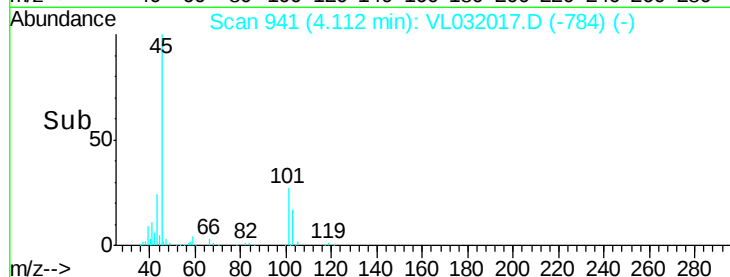
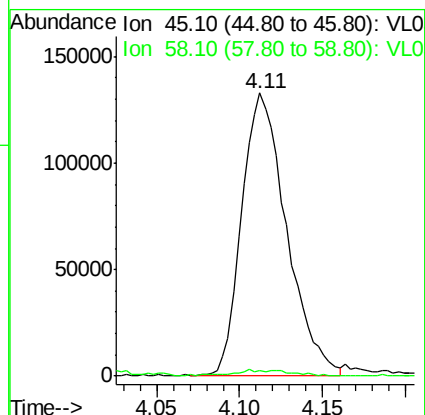
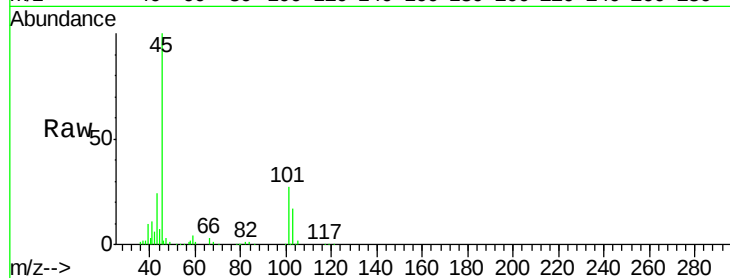


#19

Isopropyl Alcohol
 Concen: 2.25 ppbv
 RT: 4.11 min Scan# 941
 Delta R.T. 0.00 min
 Lab File: VL032017.D
 Acq: 31 May 2018 16:46

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002

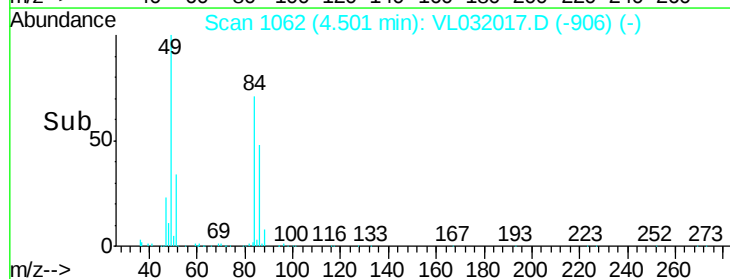
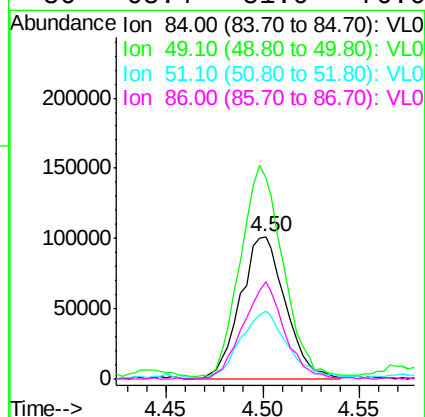
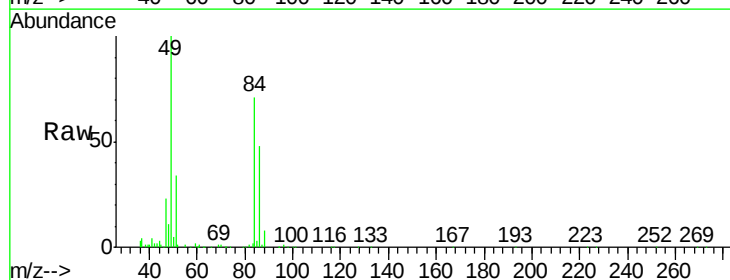
Tgt Ion: 45 Resp: 250442
 Ion Ratio Lower Upper
 45 100
 58 2.8 1.5 2.3#

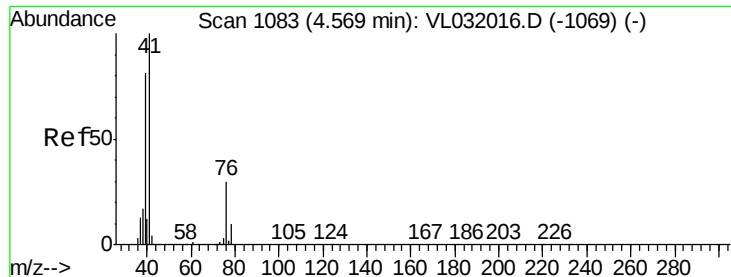


#20

Methylene Chloride
 Concen: 2.39 ppbv
 RT: 4.50 min Scan# 1062
 Delta R.T. 0.00 min
 Lab File: VL032017.D
 Acq: 31 May 2018 16:46

Tgt Ion: 84 Resp: 164653
 Ion Ratio Lower Upper
 84 100
 49 139.3 113.0 169.4
 51 46.7 36.4 54.6
 86 68.4 51.0 76.6

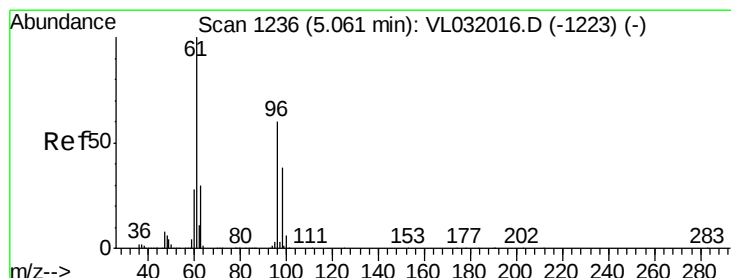
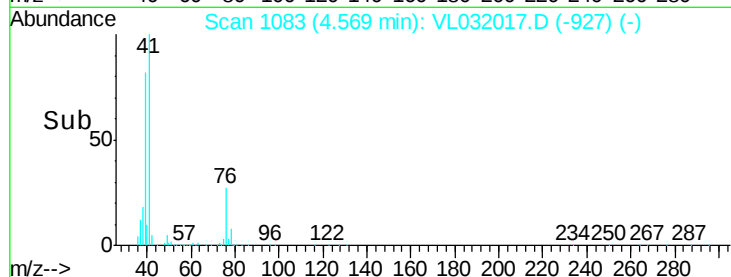
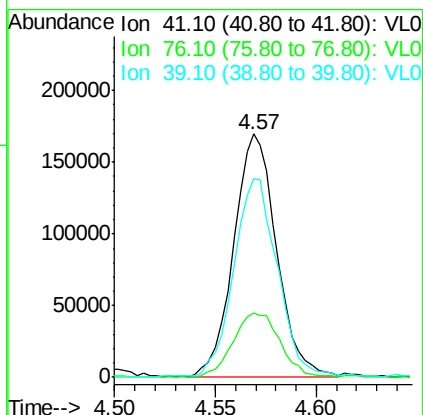
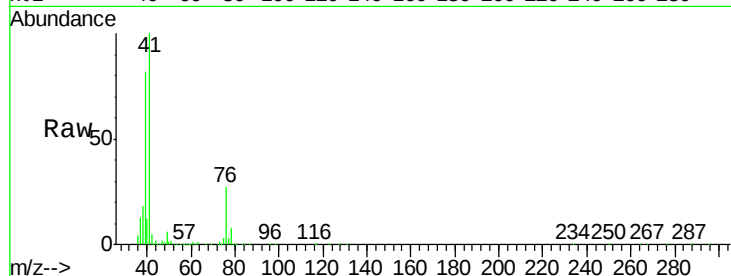




#21
 Allyl Chloride
 Concen: 2.16 ppbv
 RT: 4.57 min Scan# 1083
 Delta R.T. 0.00 min
 Lab File: VL032017.D
 Acq: 31 May 2018 16:46

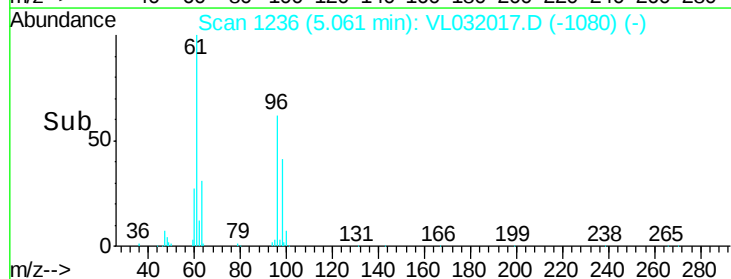
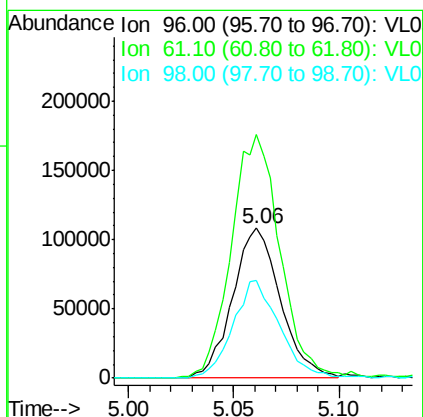
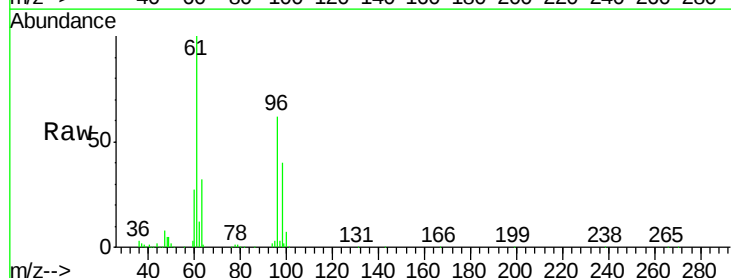
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002

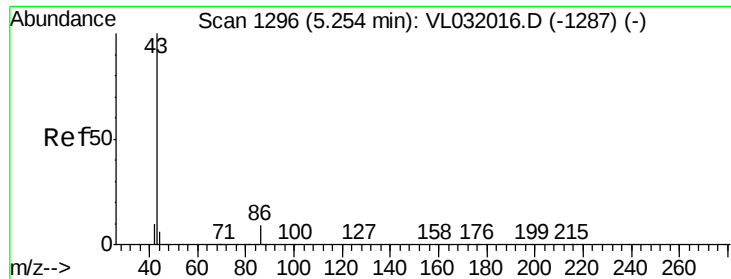
Tgt Ion: 41 Resp: 251084
 Ion Ratio Lower Upper
 41 100
 76 29.9 23.9 35.9
 39 86.5 65.9 98.9



#22
 trans-1,2-Dichloroethene
 Concen: 2.12 ppbv
 RT: 5.06 min Scan# 1236
 Delta R.T. 0.00 min
 Lab File: VL032017.D
 Acq: 31 May 2018 16:46

Tgt Ion: 96 Resp: 169339
 Ion Ratio Lower Upper
 96 100
 61 161.2 133.3 199.9
 98 65.2 51.0 76.4





#23

Vinyl Acetate

Concen: 2.05 ppbv

RT: 5.25 min Scan# 1296

Delta R.T. 0.00 min

Lab File: VL032017.D

Acq: 31 May 2018 16:46

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

Tgt Ion: 43 Resp: 476408

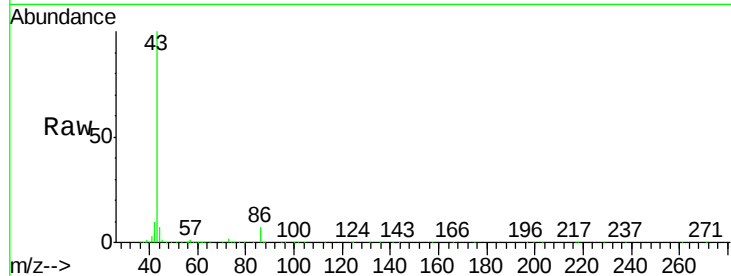
Ion Ratio Lower Upper

43 100

86 7.0 6.2 9.4

42 9.7 8.7 13.1

44 6.2 4.6 6.8

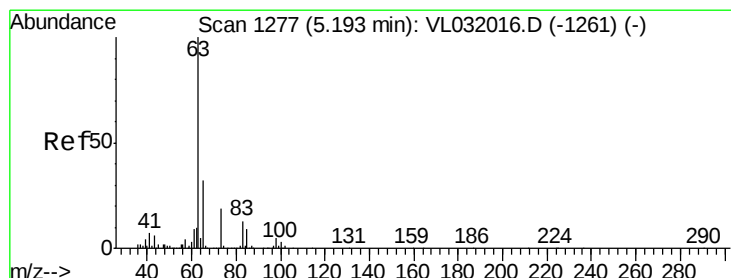
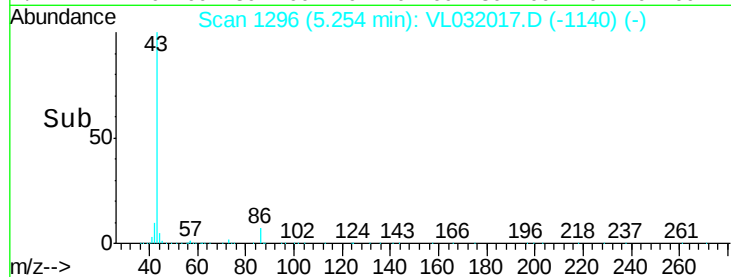
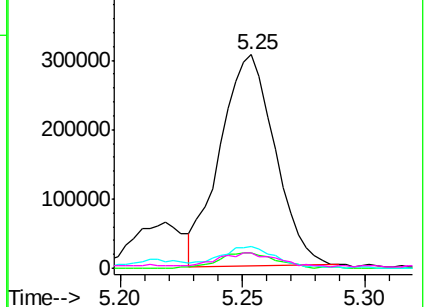


Abundance Ion 43.10 (42.80 to 43.80): VL0

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: 2.10 ppbv

RT: 5.19 min Scan# 1276

Delta R.T. -0.00 min

Lab File: VL032017.D

Acq: 31 May 2018 16:46

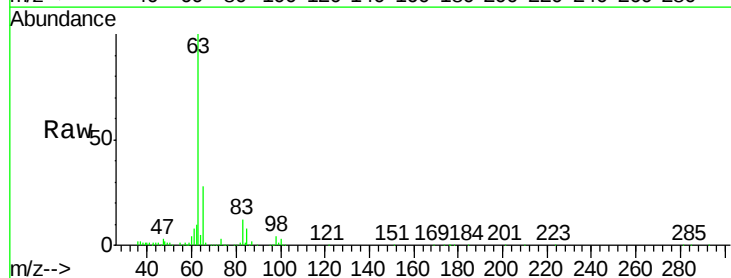
Tgt Ion: 63 Resp: 459829

Ion Ratio Lower Upper

63 100

98 3.5 2.4 7.1

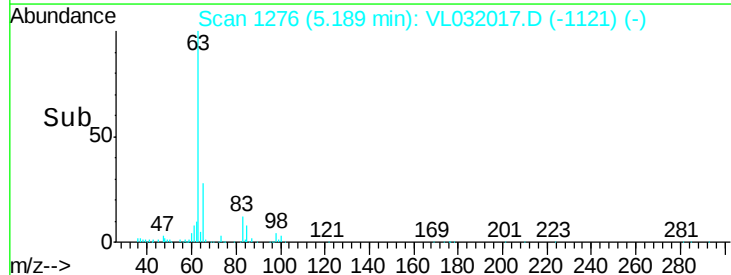
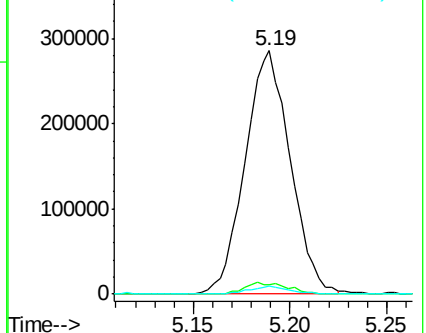
100 3.2 1.5 4.5

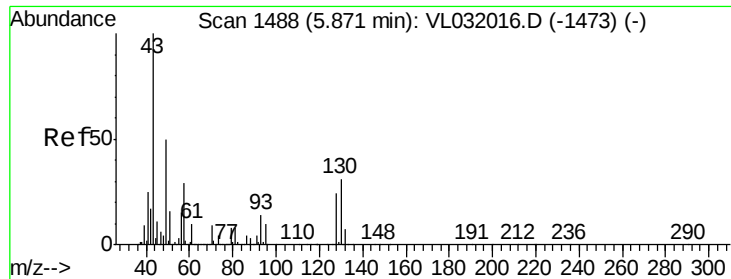


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

Ion 100.00 (99.70 to 100.70): VL0

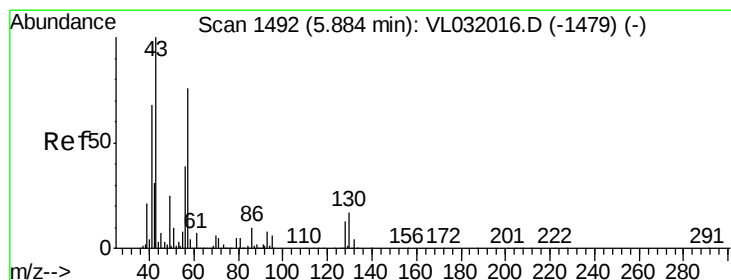
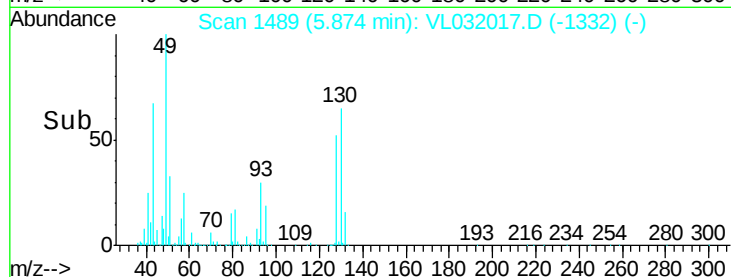
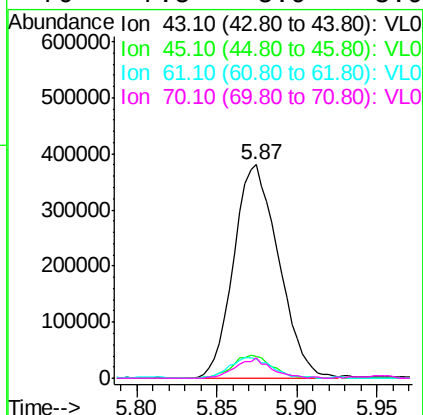
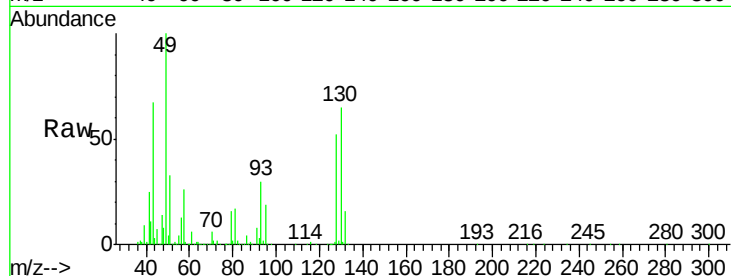




#25
Ethyl Acetate
Concen: 2.09 ppbv
RT: 5.87 min Scan# 1489
Delta R.T. 0.00 min
Lab File: VL032017.D
Acq: 31 May 2018 16:46

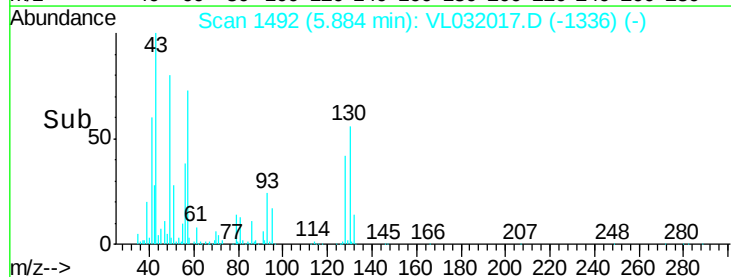
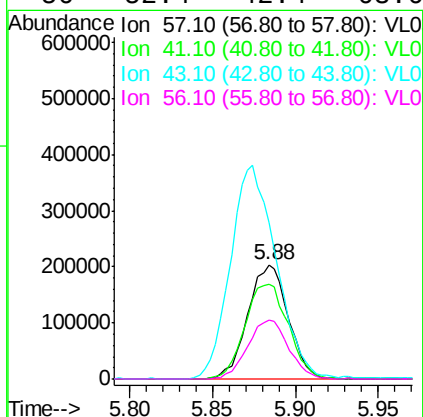
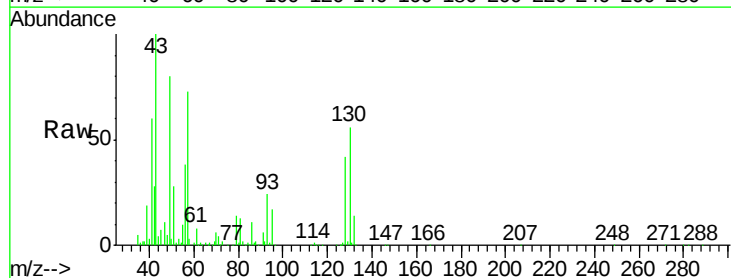
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

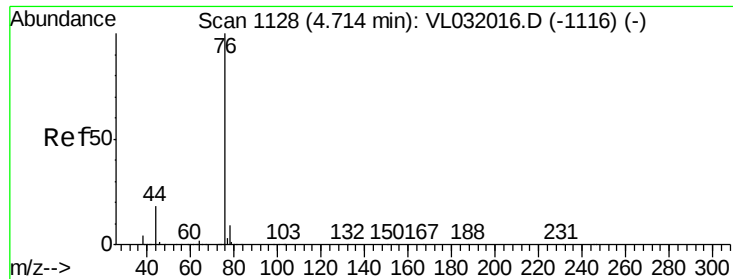
Tgt Ion:	43	Resp:	726072
Ion	Ratio	Lower	Upper
43	100		
45	9.8	7.8	11.6
61	9.0	7.4	11.2
70	7.5	5.9	8.9



#26
Hexane
Concen: 2.10 ppbv
RT: 5.88 min Scan# 1492
Delta R.T. 0.00 min
Lab File: VL032017.D
Acq: 31 May 2018 16:46

Tgt Ion:	57	Resp:	344365
Ion	Ratio	Lower	Upper
57	100		
41	90.3	71.4	107.2
43	213.2	168.6	252.8
56	52.4	42.4	63.6





#27

Carbon Disulfide

Concen: 2.24 ppbv

RT: 4.71 min Scan# 1128

Delta R.T. 0.00 min

Lab File: VL032017.D

Acq: 31 May 2018 16:46

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

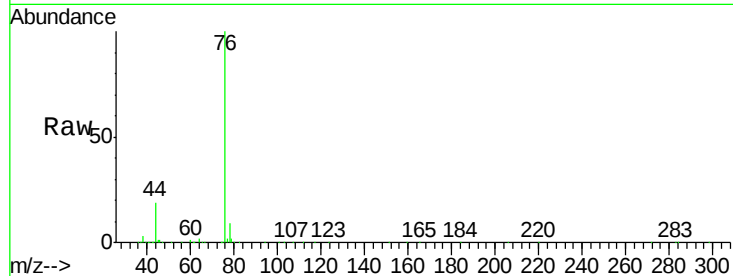
Tgt Ion: 76 Resp: 422633

Ion Ratio Lower Upper

76 100

44 18.8 14.9 22.3

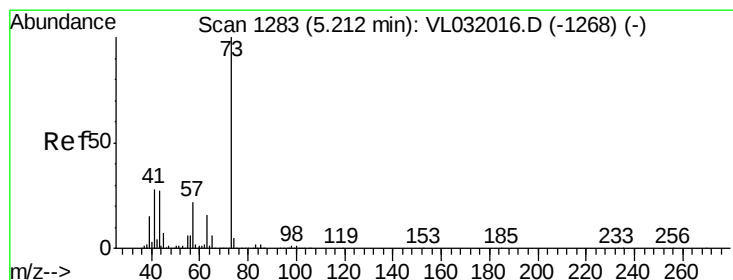
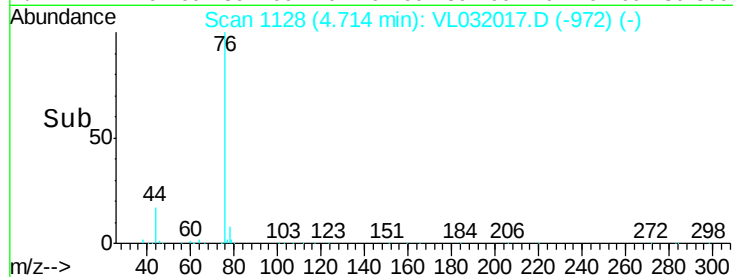
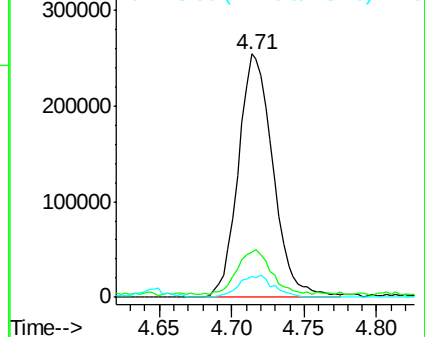
78 9.3 7.6 11.4



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: 2.06 ppbv

RT: 5.22 min Scan# 1284

Delta R.T. 0.00 min

Lab File: VL032017.D

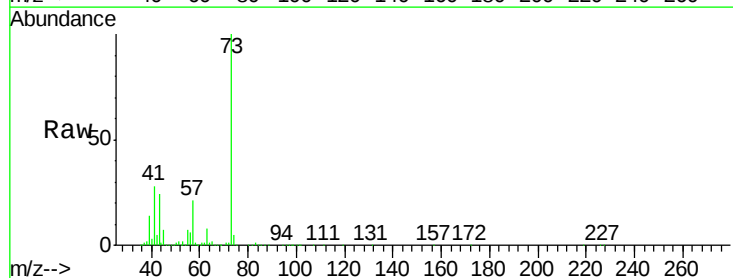
Acq: 31 May 2018 16:46

Tgt Ion: 73 Resp: 414758

Ion Ratio Lower Upper

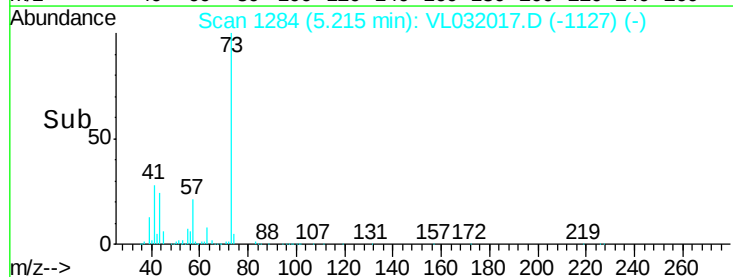
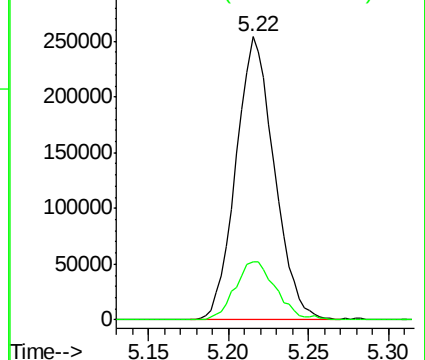
73 100

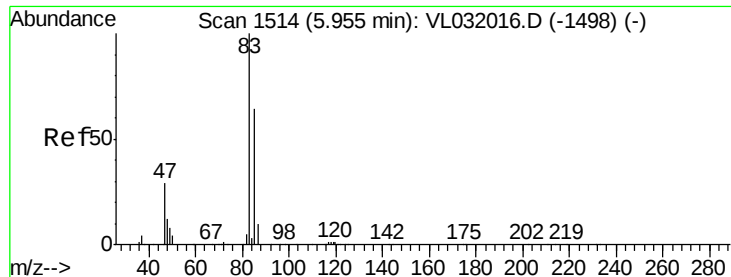
57 22.1 17.8 26.8



Abundance Ion 73.10 (72.80 to 73.80): VL0

Ion 57.10 (56.80 to 57.80): VL0

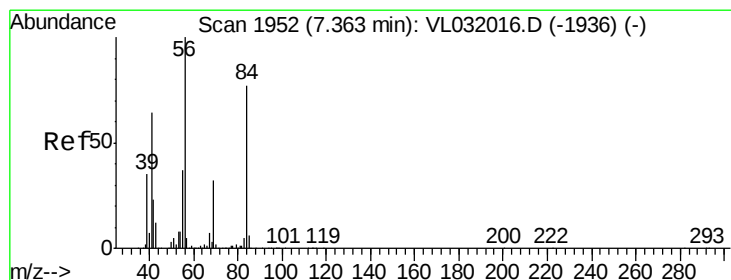
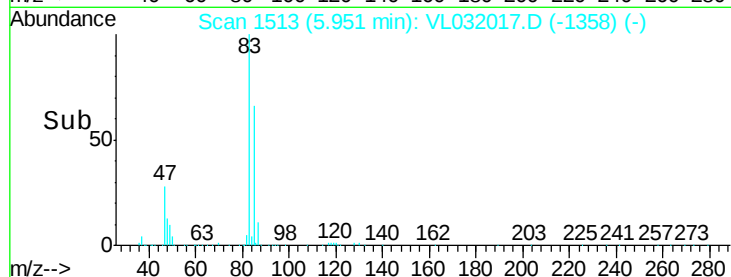
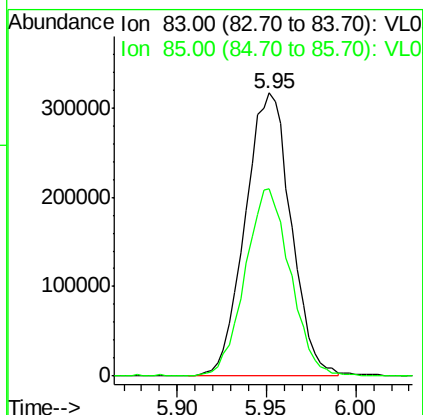
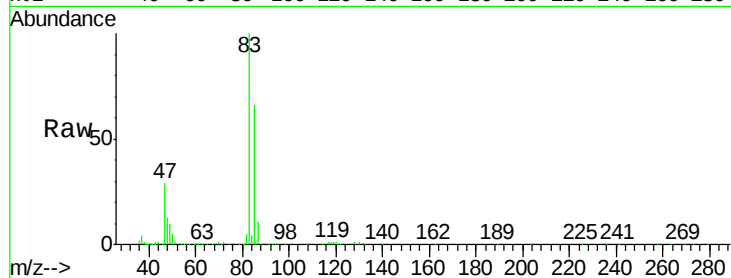




#29
Chloroform
Concen: 2.18 ppbv
RT: 5.95 min Scan# 1513
Delta R.T. -0.00 min
Lab File: VL032017.D
Acq: 31 May 2018 16:46

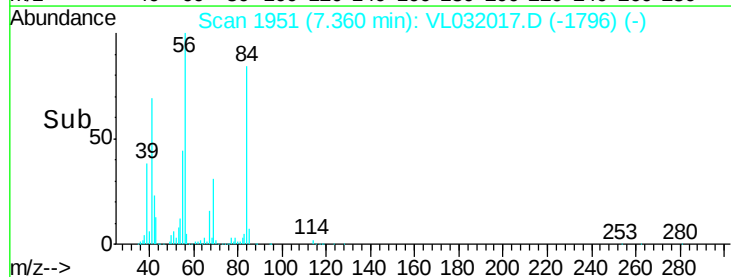
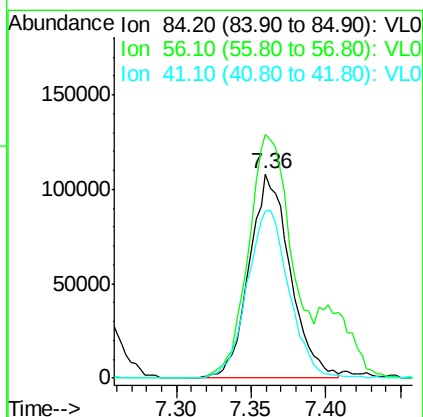
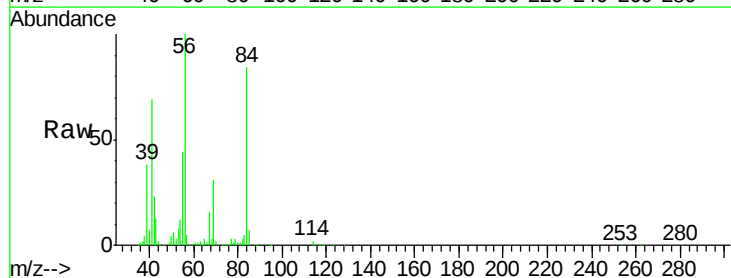
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

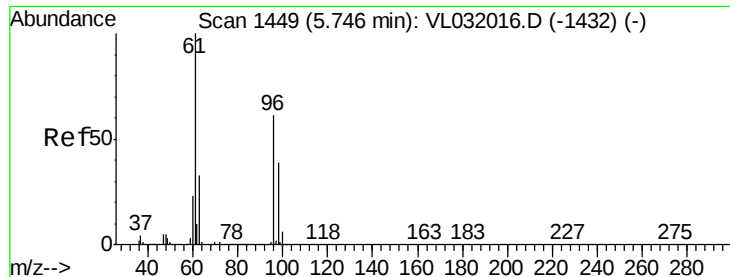
Tgt Ion: 83 Resp: 569151
Ion Ratio Lower Upper
83 100
85 66.1 50.9 76.3



#30
Cyclohexane
Concen: 1.90 ppbv
RT: 7.36 min Scan# 1951
Delta R.T. -0.00 min
Lab File: VL032017.D
Acq: 31 May 2018 16:46

Tgt Ion: 84 Resp: 205388
Ion Ratio Lower Upper
84 100
56 154.4 108.6 162.8
41 84.3 66.8 100.2





#31

cis-1,2-Dichloroethene

Concen: 2.00 ppbv

RT: 5.74 min Scan# 1448

Delta R.T. -0.00 min

Lab File: VL032017.D

Acq: 31 May 2018 16:46

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

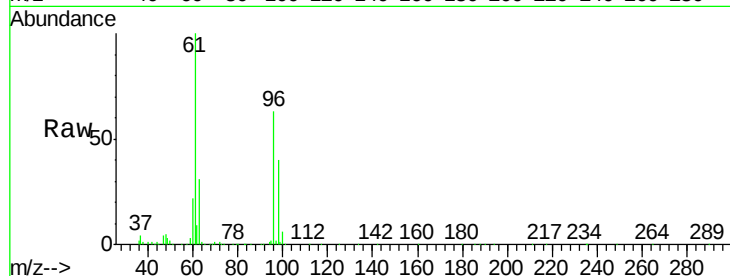
Tgt Ion: 61 Resp: 301196

Ion Ratio Lower Upper

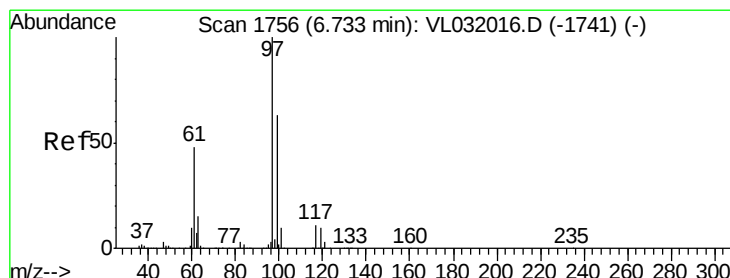
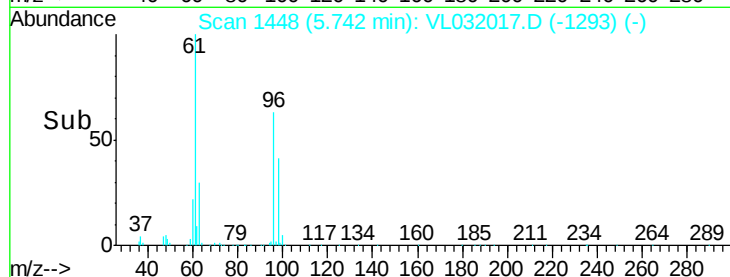
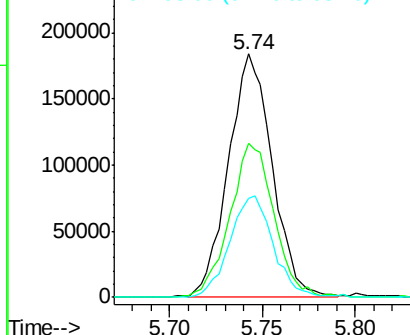
61 100

96 62.8 49.0 73.6

98 40.2 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: 1.81 ppbv

RT: 6.73 min Scan# 1755

Delta R.T. -0.00 min

Lab File: VL032017.D

Acq: 31 May 2018 16:46

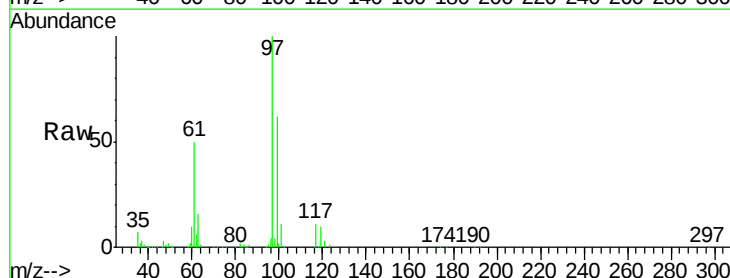
Tgt Ion: 97 Resp: 430702

Ion Ratio Lower Upper

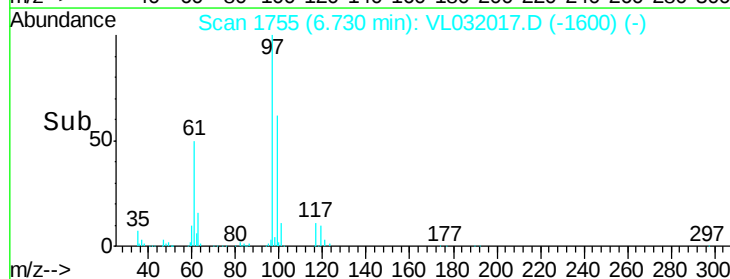
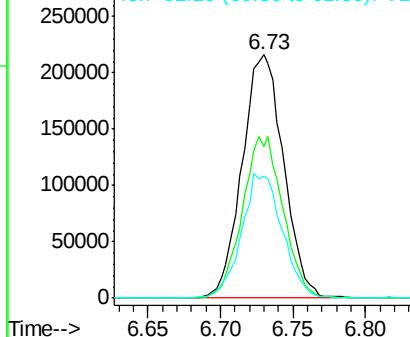
97 100

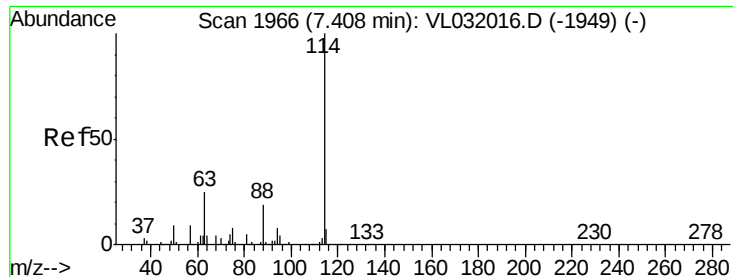
99 65.0 51.5 77.3

61 50.3 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

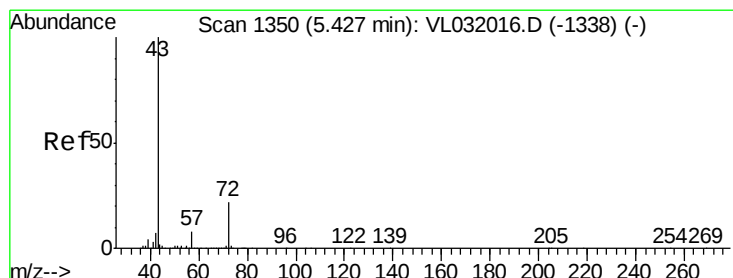
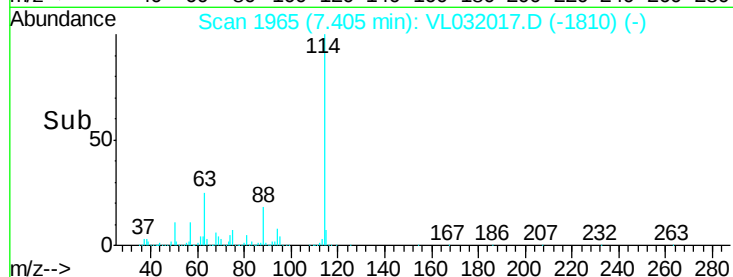
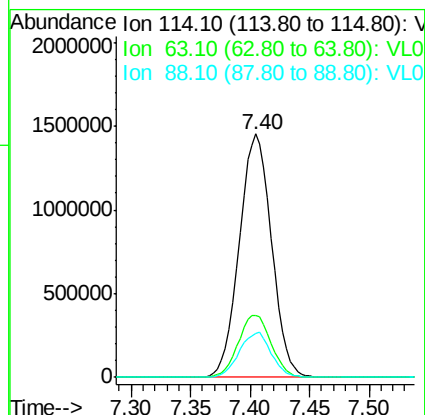
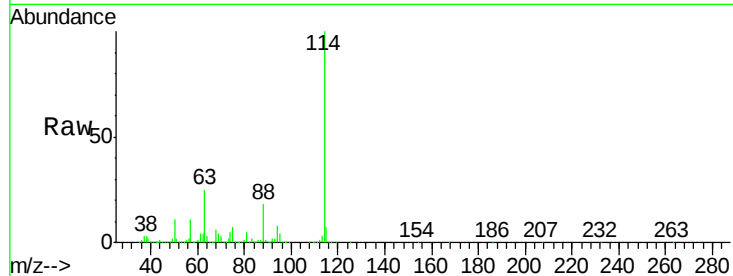




#33
 1,4-Difluorobenzene
 Concen: 10.00 ppbv
 RT: 7.40 min Scan# 1965
 Delta R.T. -0.00 min
 Lab File: VL032017.D
 Acq: 31 May 2018 16:46

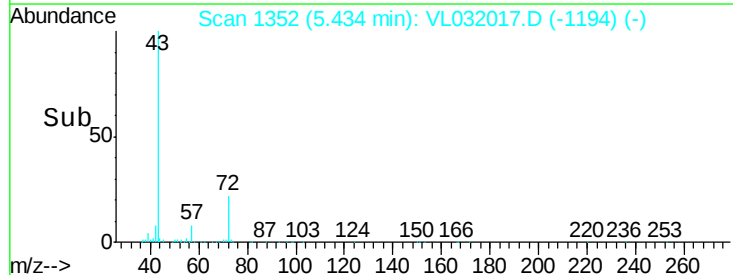
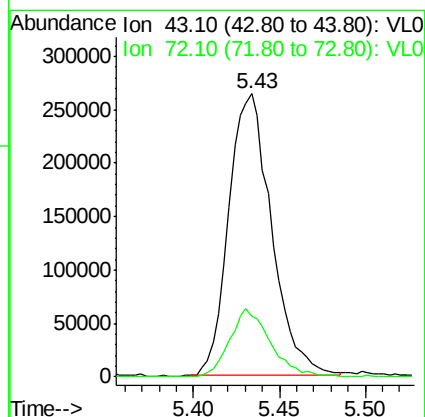
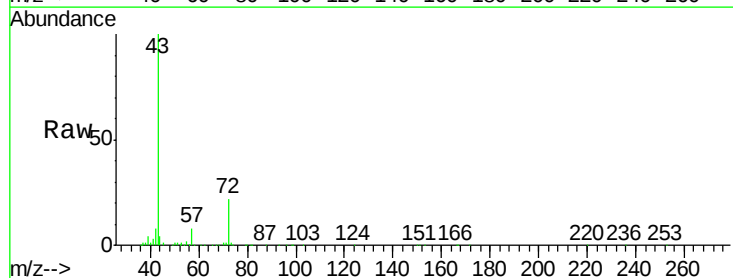
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002

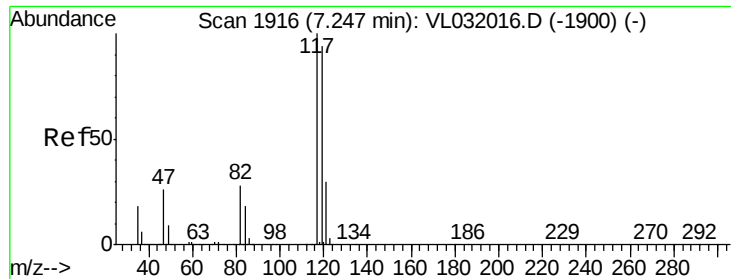
Tgt Ion:114 Resp: 2729334
 Ion Ratio Lower Upper
 114 100
 63 26.2 21.1 31.7
 88 18.4 14.8 22.2



#34
 2-Butanone
 Concen: 2.01 ppbv
 RT: 5.43 min Scan# 1352
 Delta R.T. 0.01 min
 Lab File: VL032017.D
 Acq: 31 May 2018 16:46

Tgt Ion: 43 Resp: 454292
 Ion Ratio Lower Upper
 43 100
 72 23.3 18.6 27.8





#35

Carbon Tetrachloride

Concen: 2.09 ppbv

RT: 7.25 min Scan# 1916

Delta R.T. 0.00 min

Lab File: VL032017.D

Acq: 31 May 2018 16:46

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

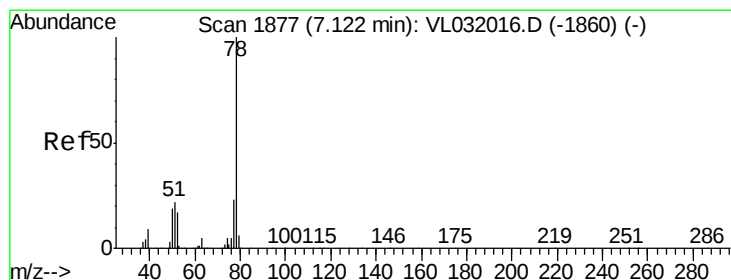
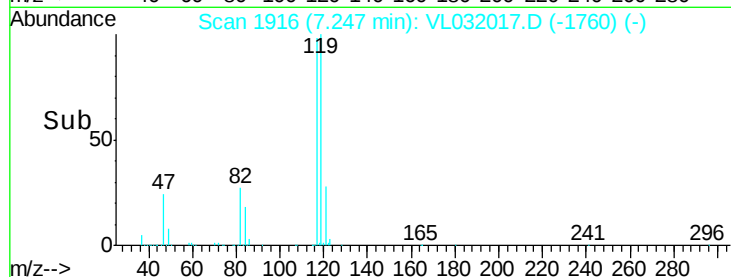
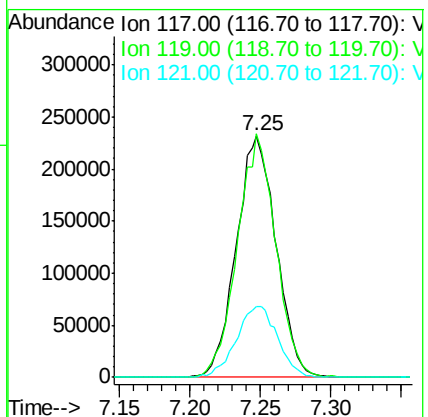
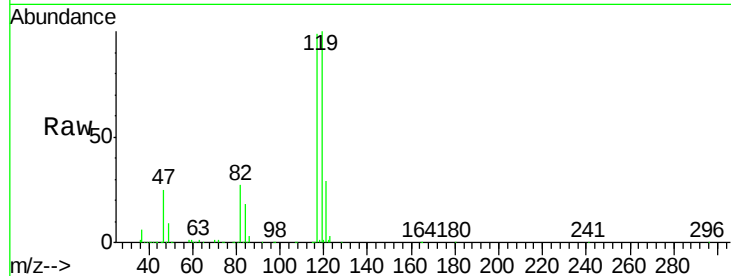
Tgt Ion: 117 Resp: 457509

Ion Ratio Lower Upper

117 100

119 100.6 75.3 112.9

121 29.3 24.1 36.1



#36

Benzene

Concen: 1.97 ppbv

RT: 7.12 min Scan# 1875

Delta R.T. -0.01 min

Lab File: VL032017.D

Acq: 31 May 2018 16:46

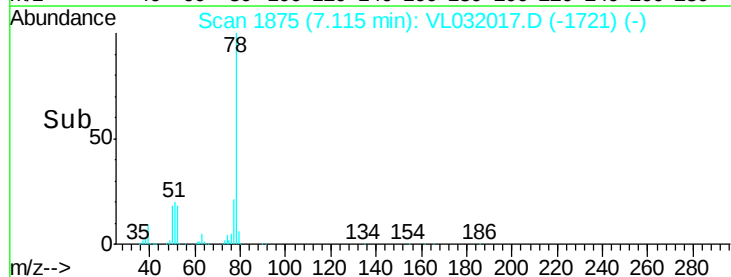
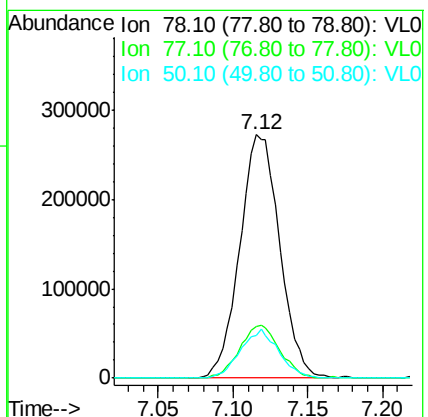
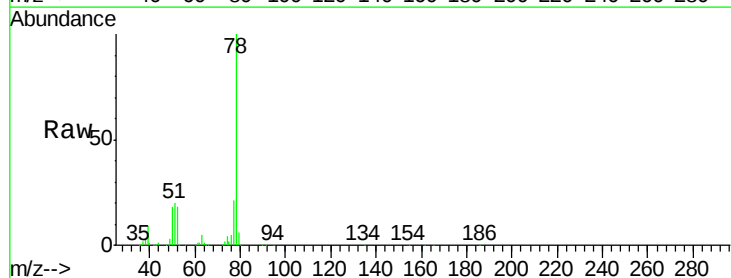
Tgt Ion: 78 Resp: 505878

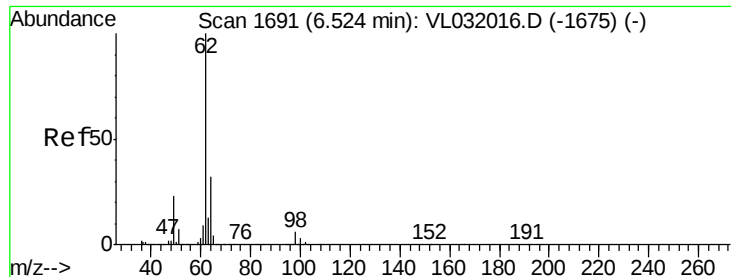
Ion Ratio Lower Upper

78 100

77 21.3 18.1 27.1

50 17.7 14.9 22.3

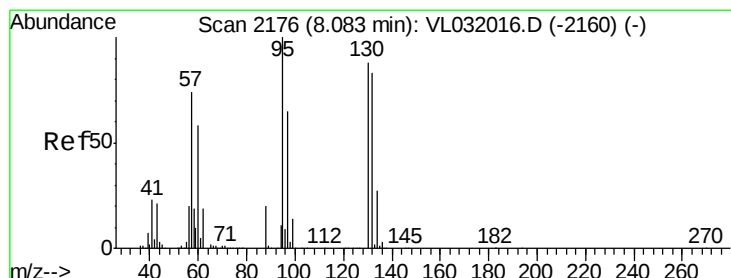
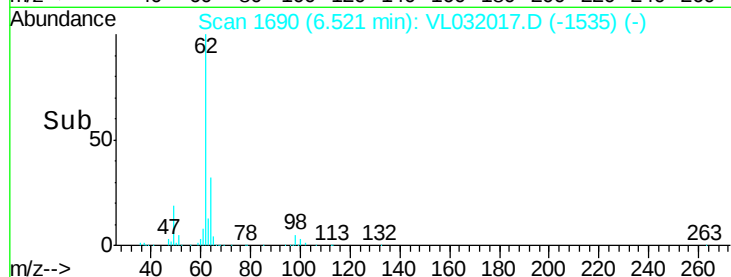
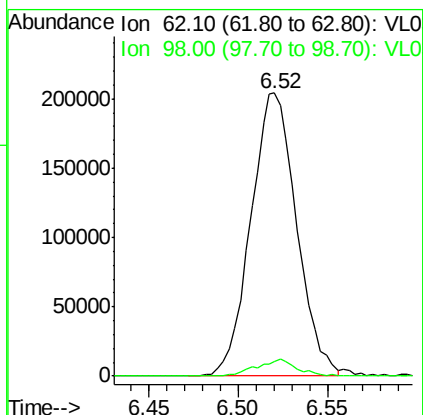
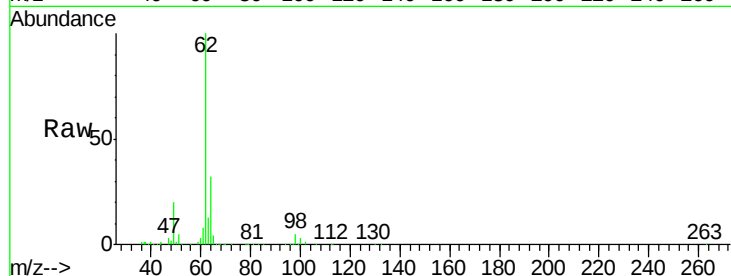




#37
 1,2-Dichloroethane
 Concen: 2.02 ppbv
 RT: 6.52 min Scan# 1690
 Delta R.T. -0.00 min
 Lab File: VL032017.D
 Acq: 31 May 2018 16:46

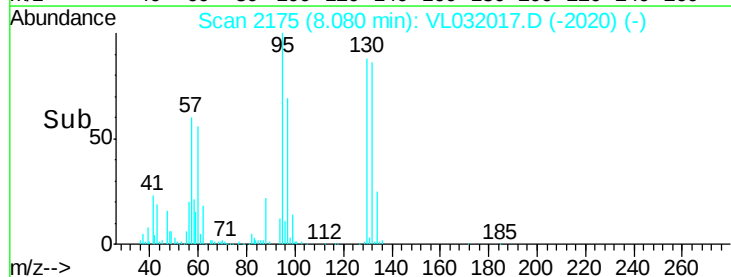
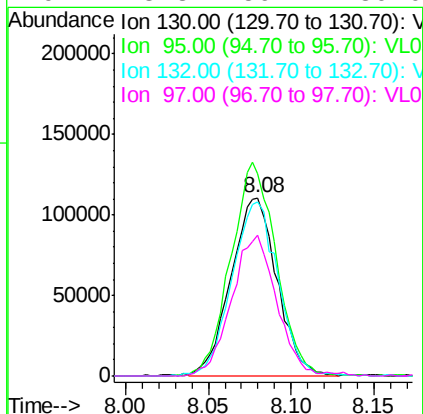
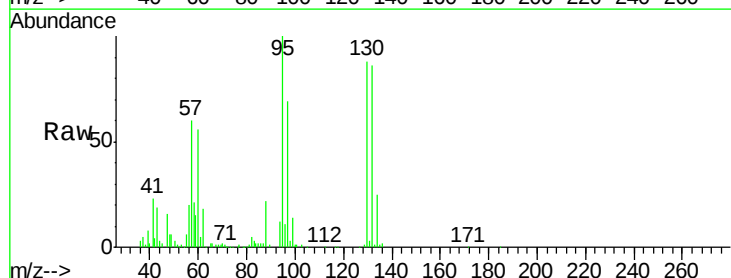
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002

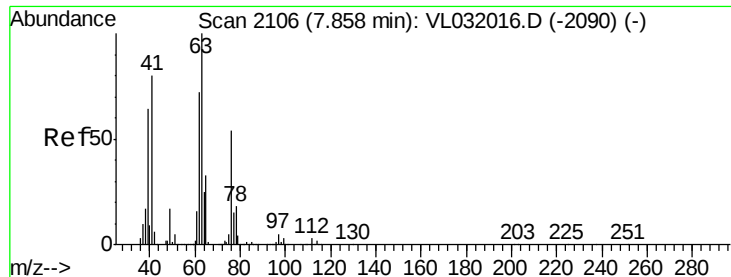
Tgt Ion: 62 Resp: 365406
 Ion Ratio Lower Upper
 62 100
 98 5.3 4.2 6.4



#38
 Trichloroethene
 Concen: 2.16 ppbv
 RT: 8.08 min Scan# 2175
 Delta R.T. -0.00 min
 Lab File: VL032017.D
 Acq: 31 May 2018 16:46

Tgt Ion: 130 Resp: 211329
 Ion Ratio Lower Upper
 130 100
 95 113.0 90.7 136.1
 132 97.6 75.6 113.4
 97 78.3 59.4 89.0

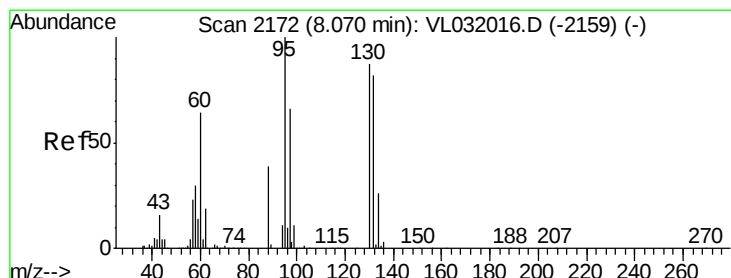
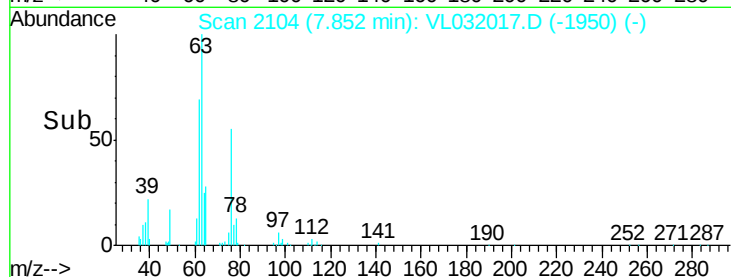
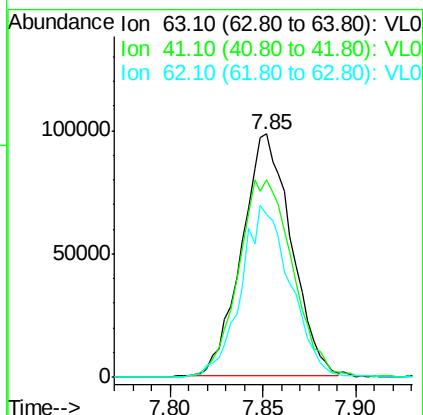
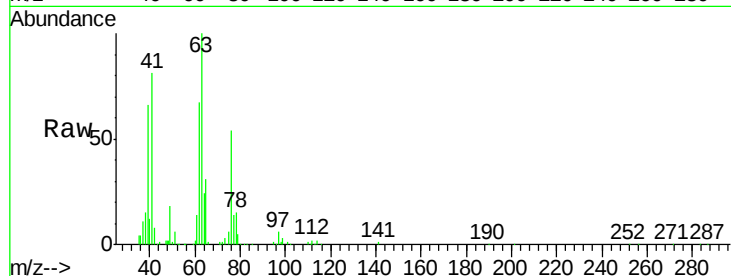




#39
 1,2-Dichloropropane
 Concen: 2.04 ppbv
 RT: 7.85 min Scan# 2104
 Delta R.T. -0.01 min
 Lab File: VL032017.D
 Acq: 31 May 2018 16:46

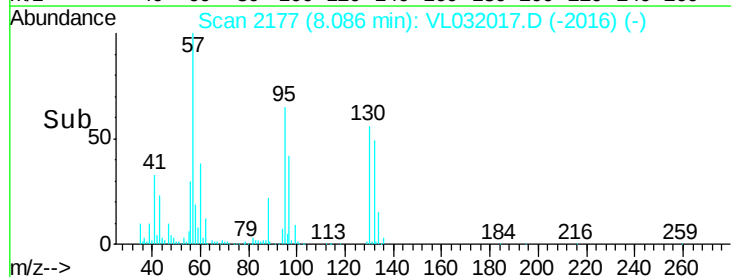
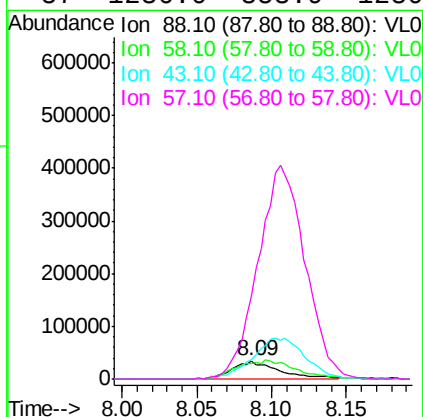
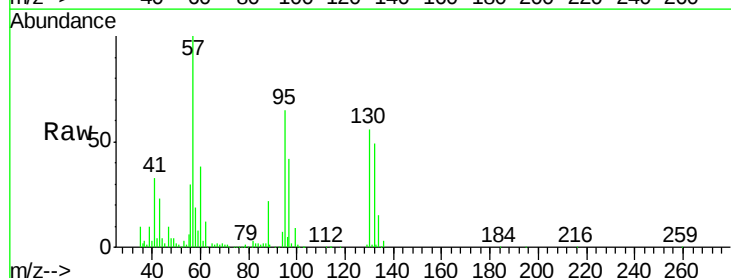
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002

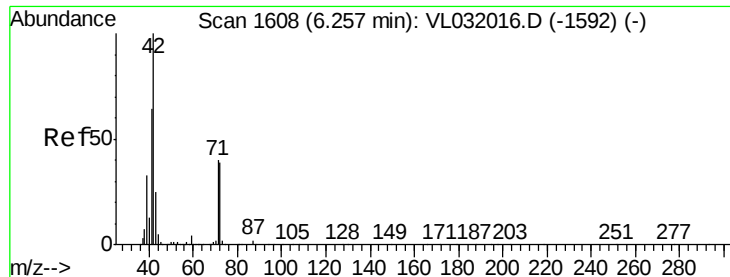
Tgt Ion: 63 Resp: 183234
 Ion Ratio Lower Upper
 63 100
 41 80.8 64.0 96.0
 62 66.5 57.6 86.4



#40
 1,4-Dioxane
 Concen: 1.79 ppbv
 RT: 8.09 min Scan# 2177
 Delta R.T. 0.02 min
 Lab File: VL032017.D
 Acq: 31 May 2018 16:46

Tgt Ion: 88 Resp: 71908
 Ion Ratio Lower Upper
 88 100
 58 140.5 100.5 150.7
 43 268.4 193.8 290.6
 57 1236.0 853.9 1280.9





#41

Tetrahydrofuran

Concen: 1.03 ppbv

RT: 6.26 min Scan# 1609

Delta R.T. 0.00 min

Lab File: VL032017.D

Acq: 31 May 2018 16:46

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

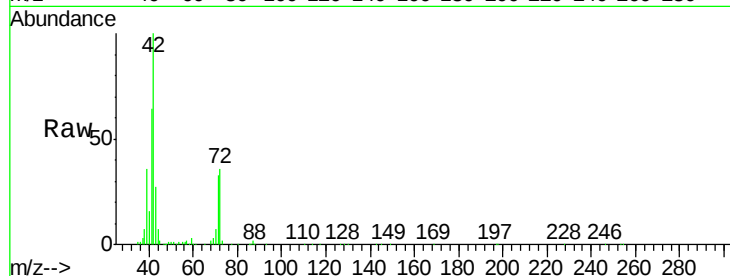
Tgt Ion: 42 Resp: 100170

Ion Ratio Lower Upper

42 100

72 0.0 32.3 48.5#

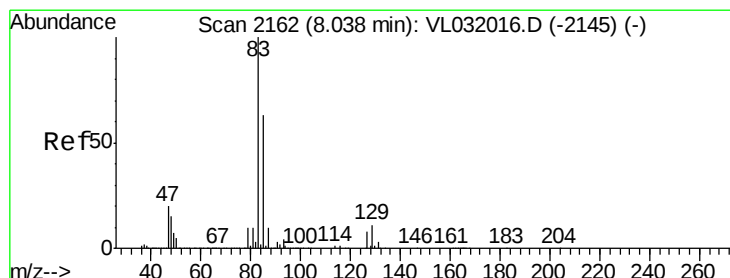
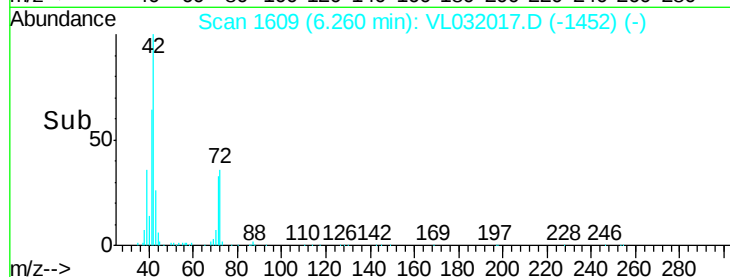
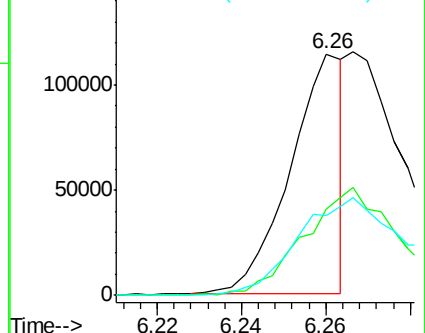
71 0.0 32.3 48.5#



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: 2.17 ppbv

RT: 8.03 min Scan# 2160

Delta R.T. -0.01 min

Lab File: VL032017.D

Acq: 31 May 2018 16:46

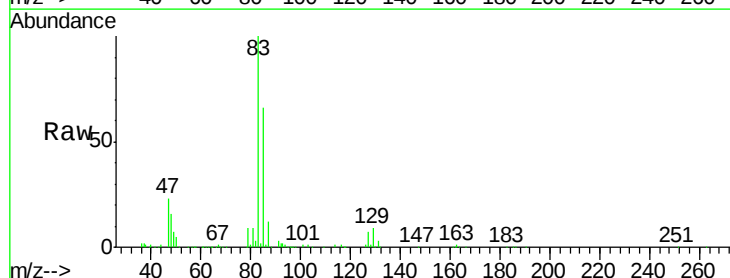
Tgt Ion: 83 Resp: 452107

Ion Ratio Lower Upper

83 100

85 65.9 50.3 75.5

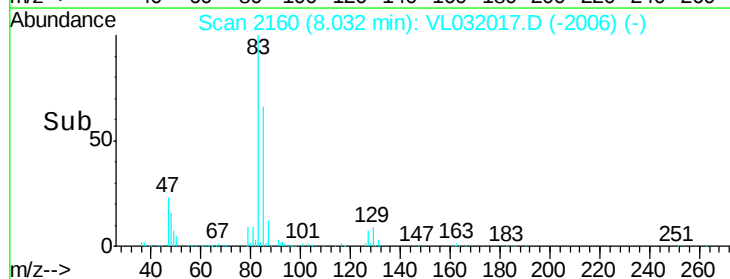
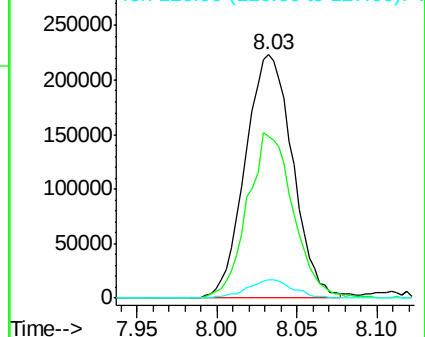
127 7.5 6.6 9.8

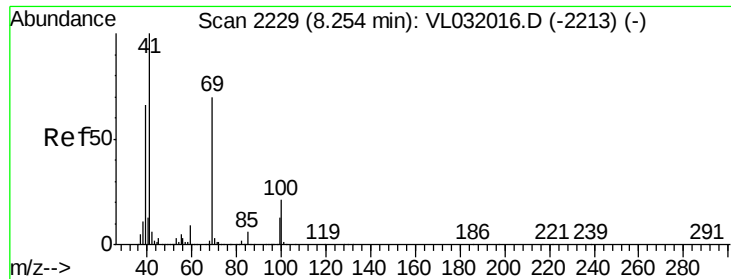


Abundance Ion 83.00 (82.70 to 83.70): VL0

Ion 85.00 (84.70 to 85.70): VL0

Ion 126.90 (126.60 to 127.60): V

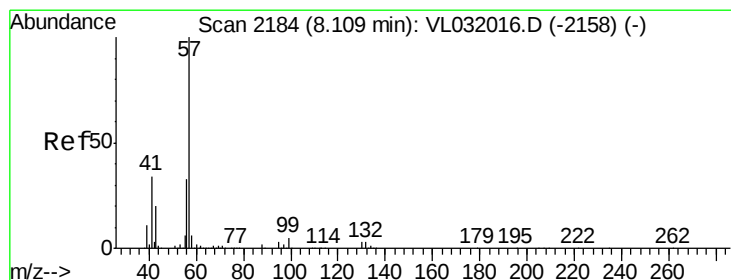
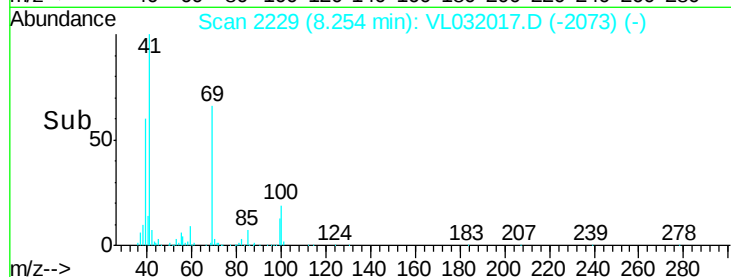
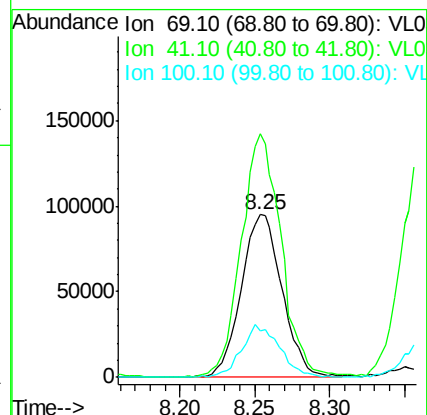
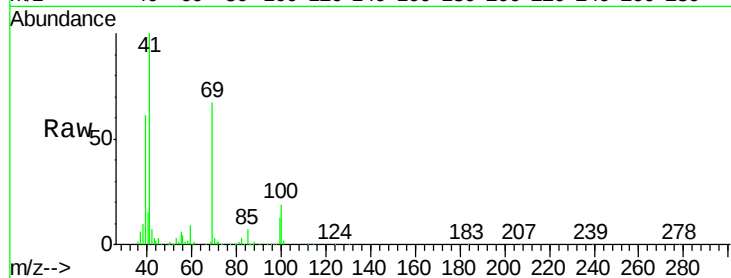




#43
Methyl Methacrylate
Concen: 2.07 ppbv
RT: 8.25 min Scan# 2229
Delta R.T. 0.00 min
Lab File: VL032017.D
Acq: 31 May 2018 16:46

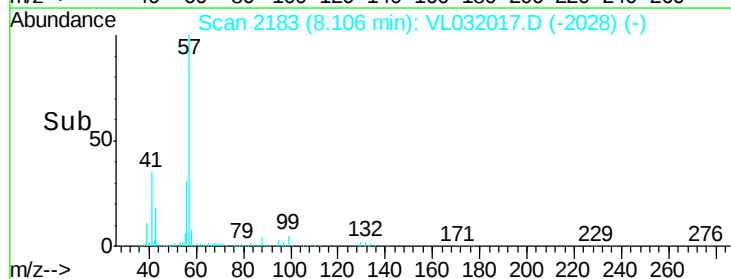
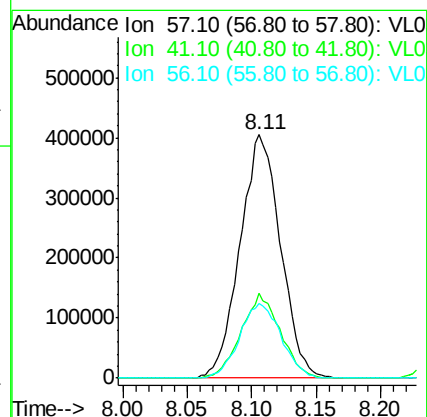
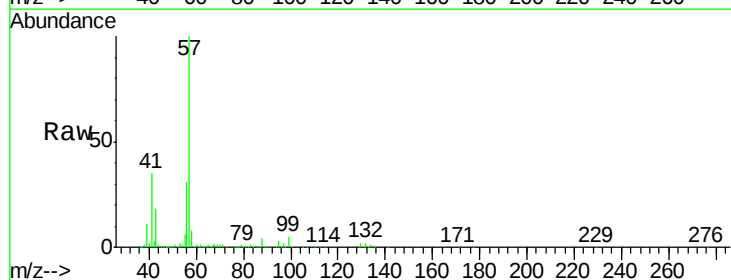
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

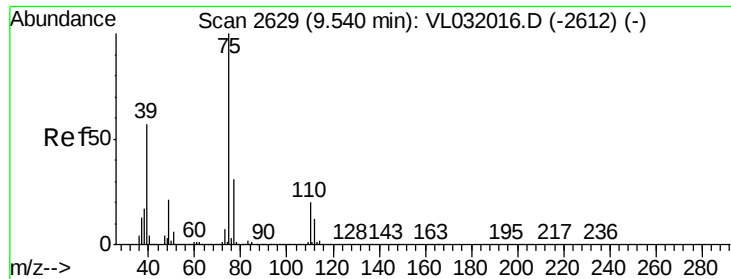
Tgt Ion: 69 Resp: 181227
Ion Ratio Lower Upper
69 100
41 145.5 115.5 173.3
100 30.1 25.4 38.0



#44
2,2,4-Trimethylpentane
Concen: 2.11 ppbv
RT: 8.11 min Scan# 2183
Delta R.T. -0.00 min
Lab File: VL032017.D
Acq: 31 May 2018 16:46

Tgt Ion: 57 Resp: 880833
Ion Ratio Lower Upper
57 100
41 33.9 26.6 40.0
56 31.8 24.9 37.3





#45

t-1,3-Dichloropropene

Concen: 2.04 ppbv

RT: 9.54 min Scan# 2628

Delta R.T. -0.00 min

Lab File: VL032017.D

Acq: 31 May 2018 16:46

Instrument :

MSVOA_L

ClientSampleId :

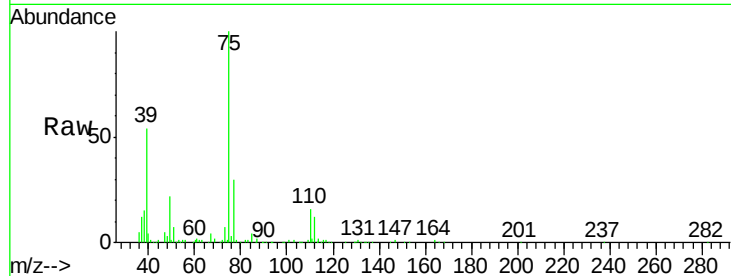
VSTDIC002

Tgt Ion: 75 Resp: 237161

Ion Ratio Lower Upper

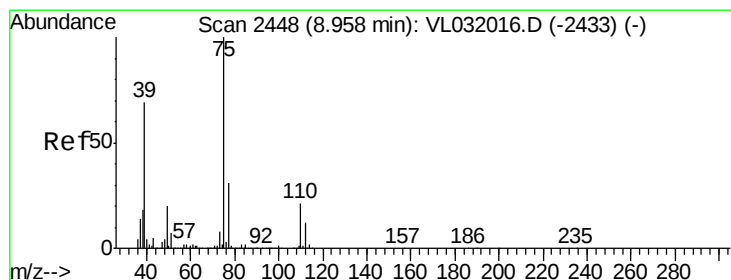
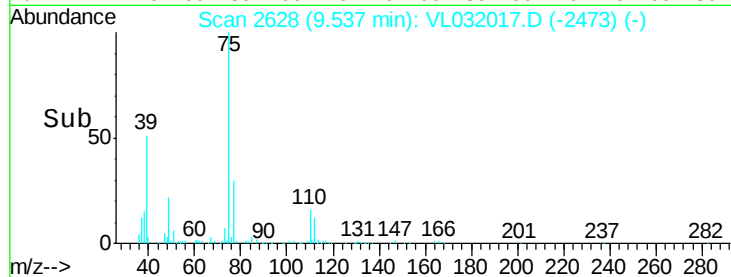
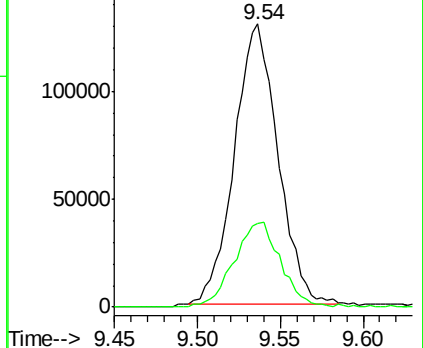
75 100

77 29.6 25.0 37.4



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: 2.10 ppbv

RT: 8.95 min Scan# 2447

Delta R.T. -0.00 min

Lab File: VL032017.D

Acq: 31 May 2018 16:46

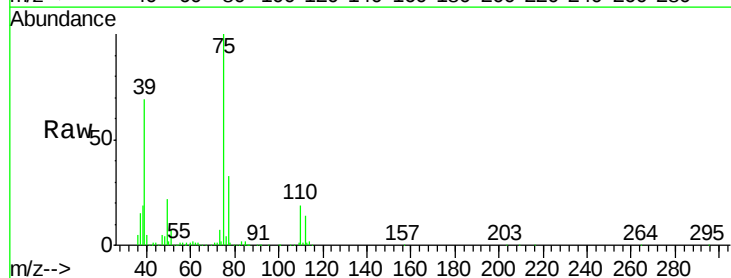
Tgt Ion: 75 Resp: 300196

Ion Ratio Lower Upper

75 100

39 68.4 55.0 82.6

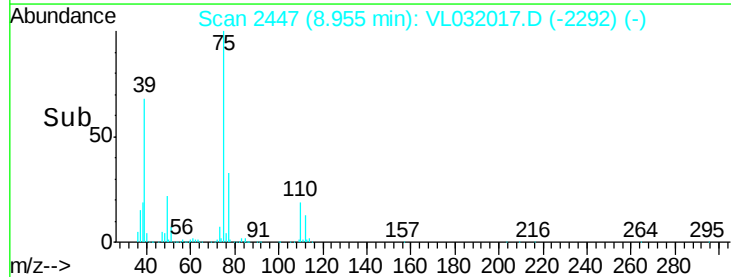
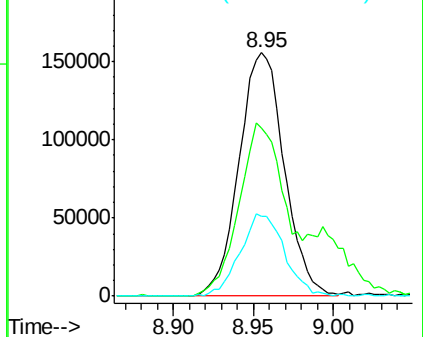
77 32.6 25.0 37.6

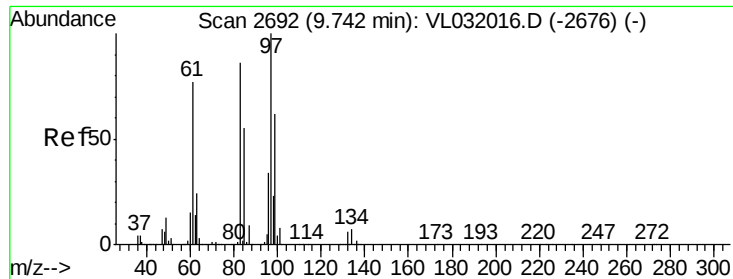


Abundance Ion 75.00 (74.70 to 75.70): VL0

Ion 39.00 (38.70 to 39.70): VL0

Ion 77.00 (76.70 to 77.70): VL0

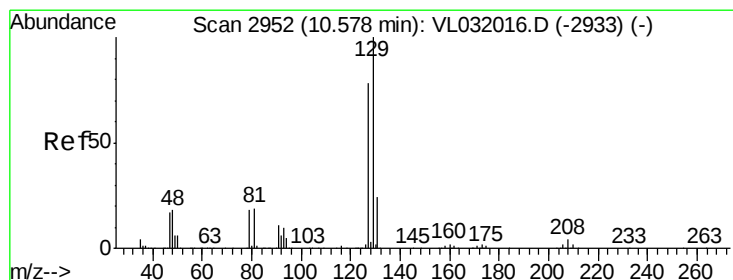
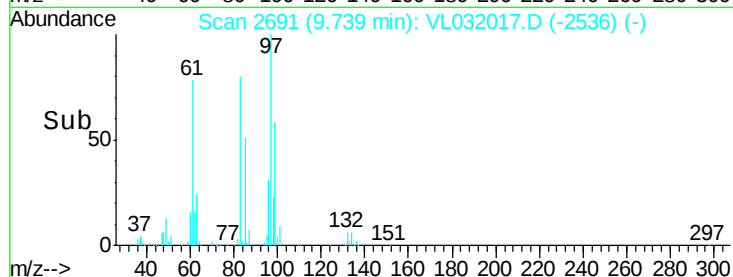
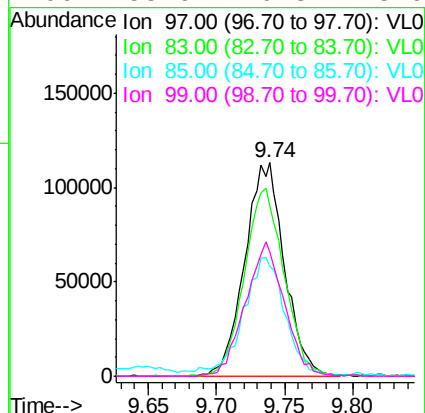
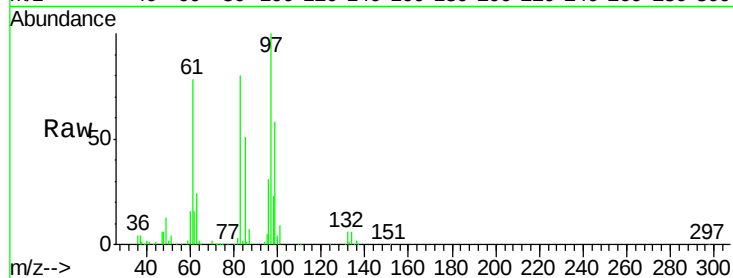




#47
 1,1,2-Trichloroethane
 Concen: 2.15 ppbv
 RT: 9.74 min Scan# 2691
 Delta R.T. -0.00 min
 Lab File: VL032017.D
 Acq: 31 May 2018 16:46

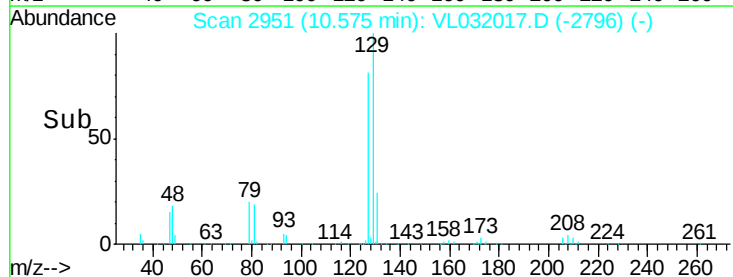
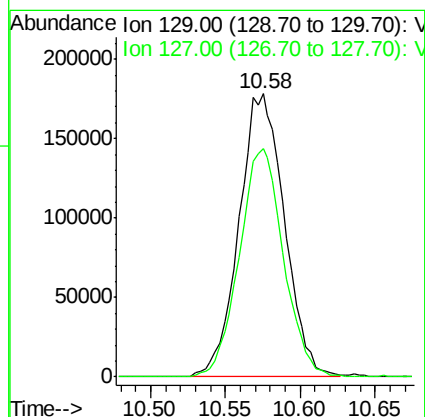
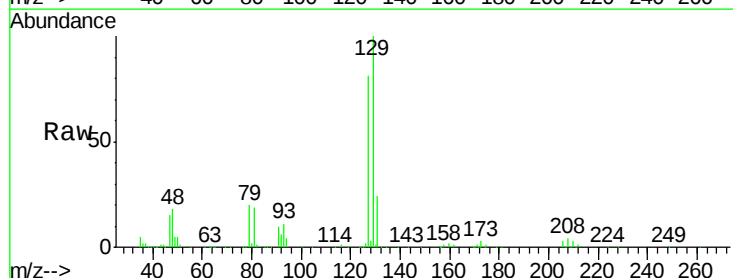
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002

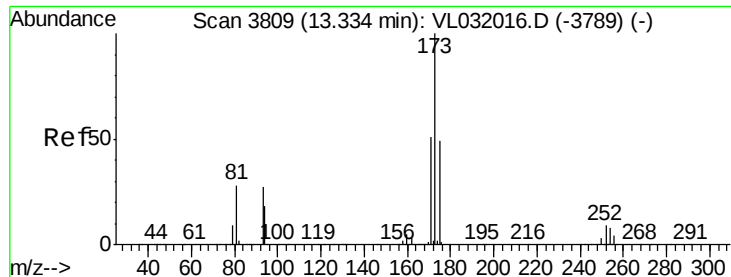
Tgt Ion:	97	Resp:	228662
Ion	Ratio	Lower	Upper
97	100		
83	79.8	69.1	103.7
85	50.8	44.5	66.7
99	58.6	49.3	73.9



#48
 Dibromochloromethane
 Concen: 2.17 ppbv
 RT: 10.58 min Scan# 2951
 Delta R.T. -0.00 min
 Lab File: VL032017.D
 Acq: 31 May 2018 16:46

Tgt Ion:	129	Resp:	373385
Ion	Ratio	Lower	Upper
129	100		
127	79.3	39.3	117.9





#49

Bromoform

Concen: 2.25 ppbv

RT: 13.33 min Scan# 3807

Delta R.T. -0.01 min

Lab File: VL032017.D

Acq: 31 May 2018 16:46

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

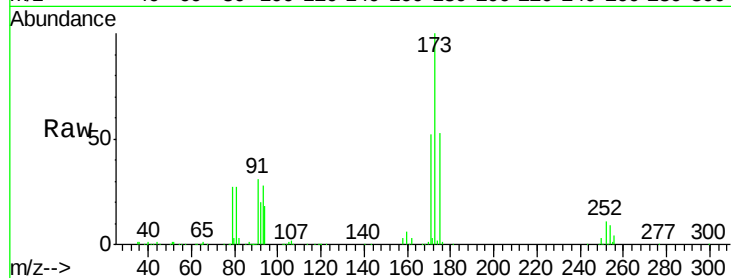
Tgt Ion: 173 Resp: 302209

Ion Ratio Lower Upper

173 100

175 48.0 39.8 59.8

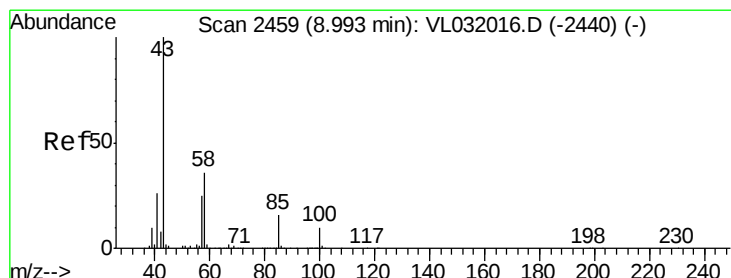
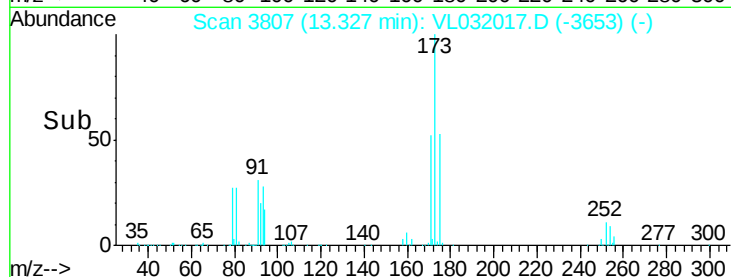
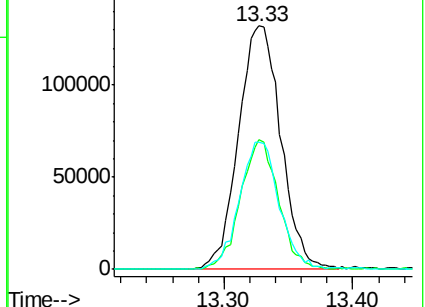
171 49.6 41.7 62.5



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: 2.12 ppbv

RT: 8.99 min Scan# 2459

Delta R.T. 0.00 min

Lab File: VL032017.D

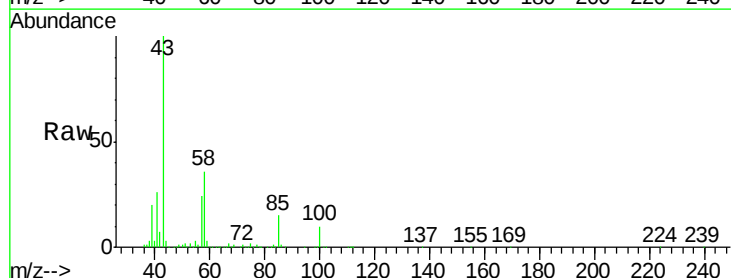
Acq: 31 May 2018 16:46

Tgt Ion: 43 Resp: 451820

Ion Ratio Lower Upper

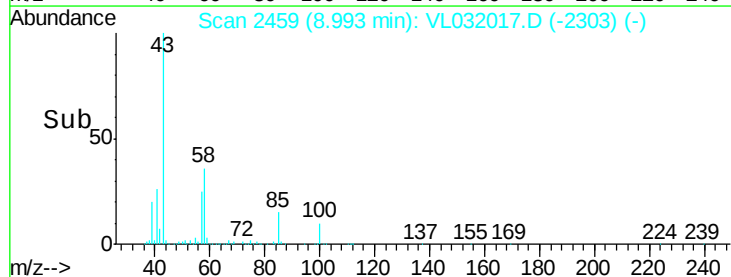
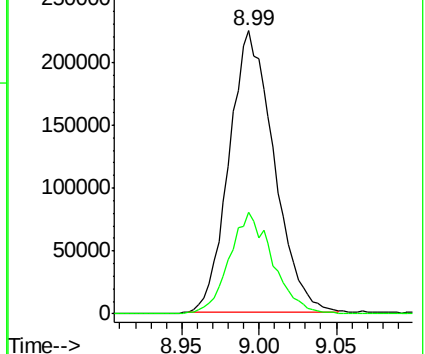
43 100

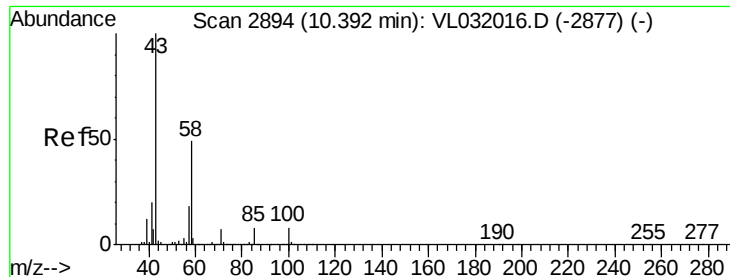
58 35.0 29.1 43.7



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0





#51

2-Hexanone

Concen: 2.09 ppbv

RT: 10.40 min Scan# 2897

Delta R.T. 0.01 min

Lab File: VL032017.D

Acq: 31 May 2018 16:46

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

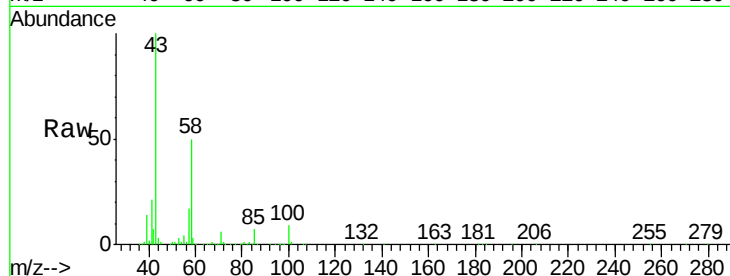
Tgt Ion: 43 Resp: 404786

Ion Ratio Lower Upper

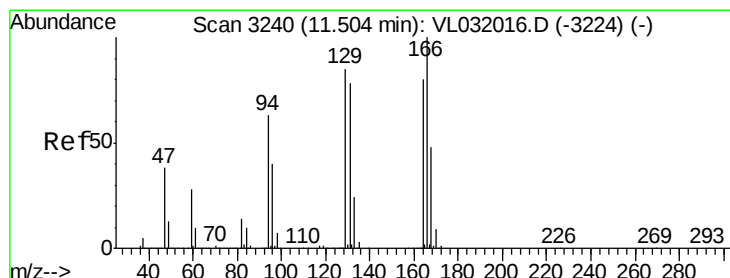
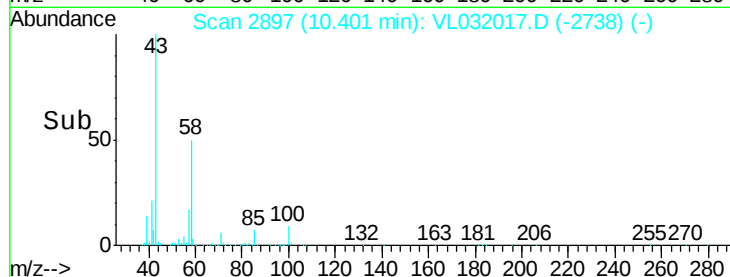
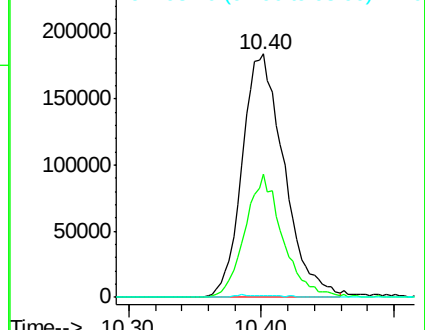
43 100

58 45.7 39.0 58.6

98 1.1 0.4 0.6#



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: 1.42 ppbv

RT: 11.50 min Scan# 3238

Delta R.T. -0.01 min

Lab File: VL032017.D

Acq: 31 May 2018 16:46

Tgt Ion: 164 Resp: 135425

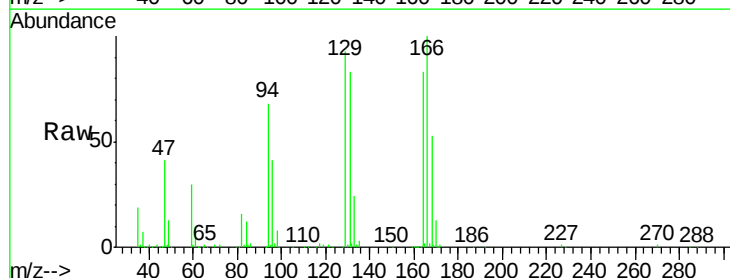
Ion Ratio Lower Upper

164 100

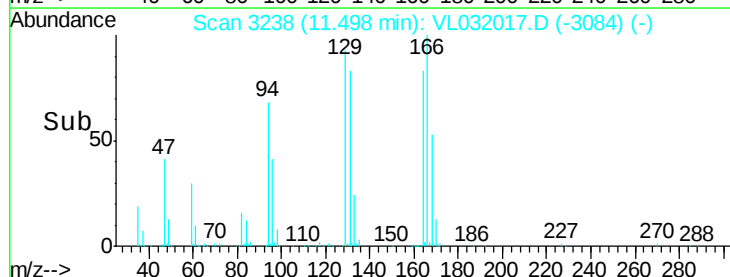
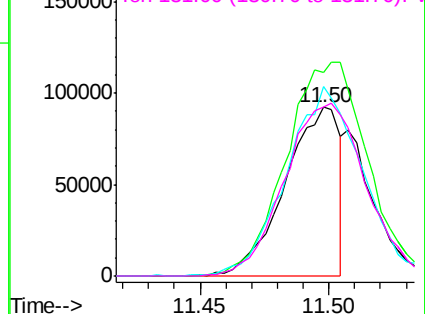
166 120.3 100.2 150.2

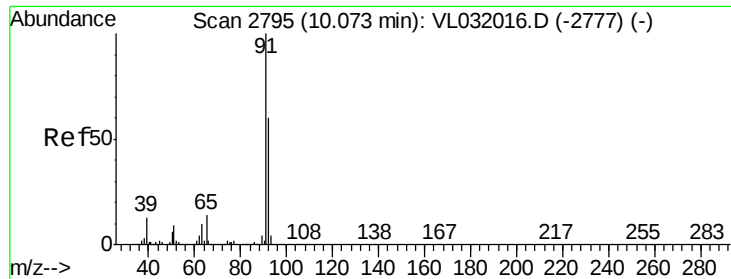
129 111.6 85.4 128.0

131 100.0 78.0 117.0



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: 2.12 ppbv

RT: 10.07 min Scan# 2794

Delta R.T. -0.00 min

Lab File: VL032017.D

Acq: 31 May 2018 16:46

Instrument :

MSVOA_L

ClientSampleId :

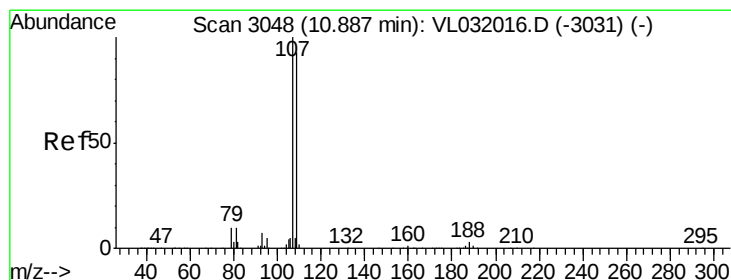
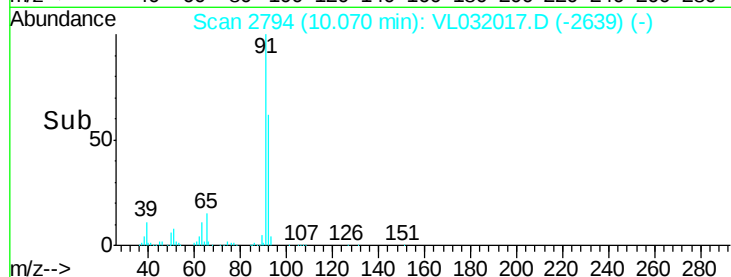
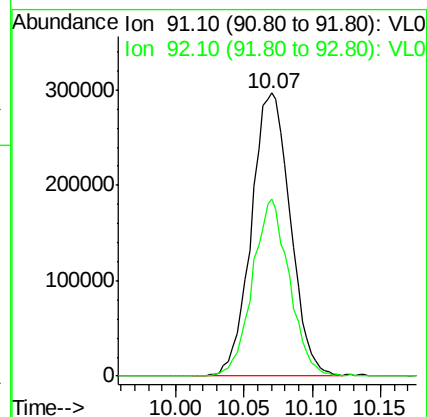
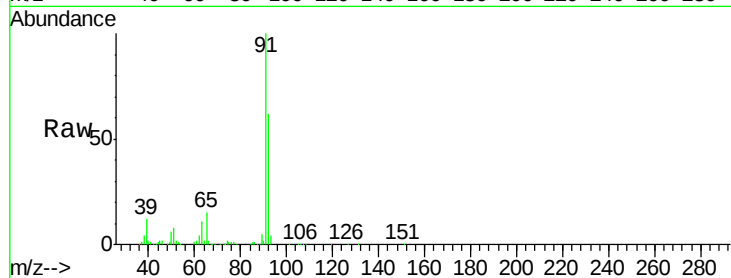
VSTDIC002

Tgt Ion: 91 Resp: 588816

Ion Ratio Lower Upper

91 100

92 59.0 48.2 72.2



#54

1,2-Dibromoethane

Concen: 2.12 ppbv

RT: 10.89 min Scan# 3048

Delta R.T. 0.00 min

Lab File: VL032017.D

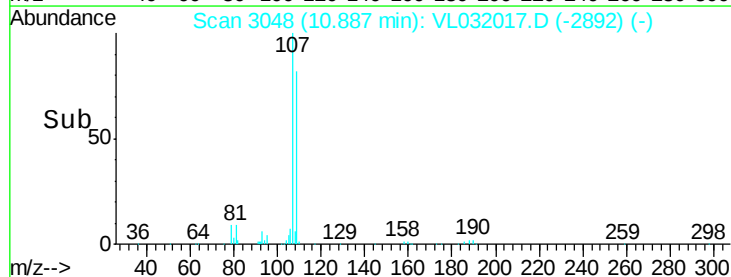
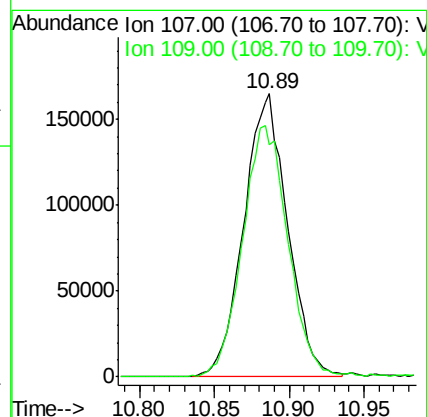
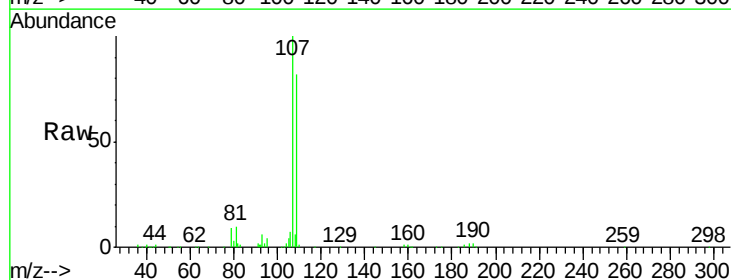
Acq: 31 May 2018 16:46

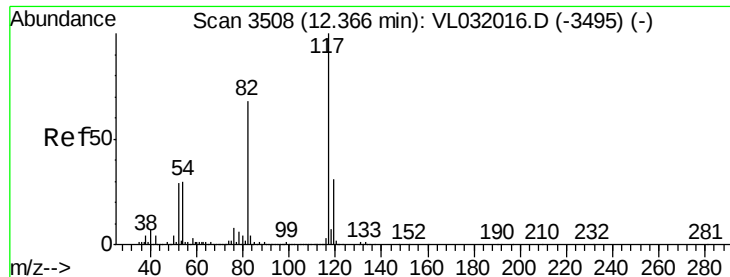
Tgt Ion: 107 Resp: 336266

Ion Ratio Lower Upper

107 100

109 81.5 74.6 111.8

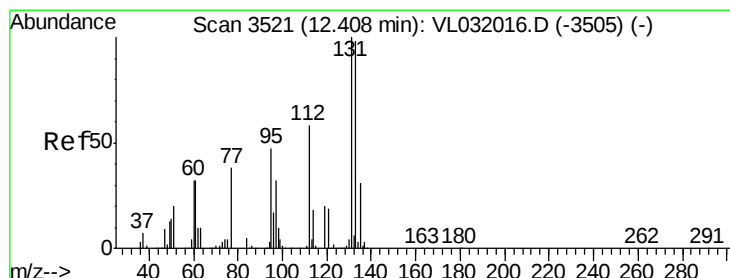
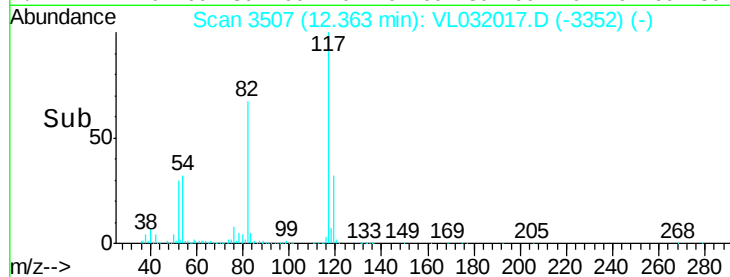
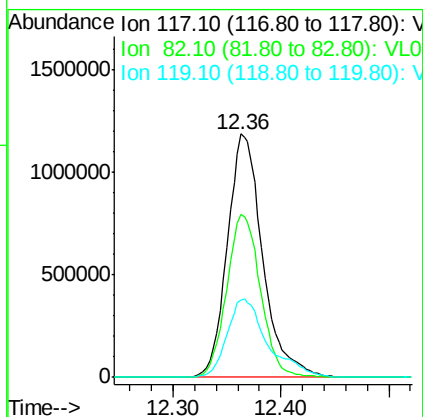
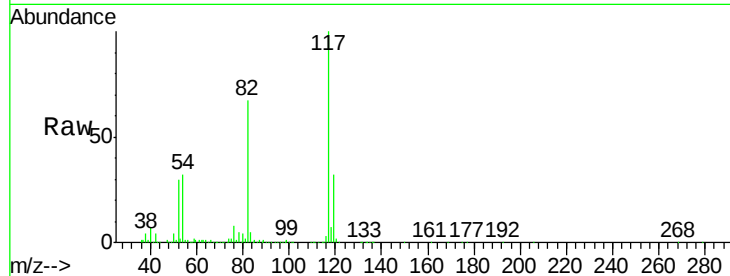




#55
Chlorobenzene-d5
Concen: 10.00 ppbv
RT: 12.36 min Scan# 3507
Delta R.T. -0.00 min
Lab File: VL032017.D
Acq: 31 May 2018 16:46

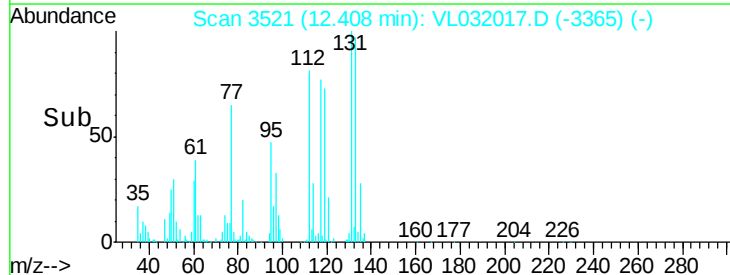
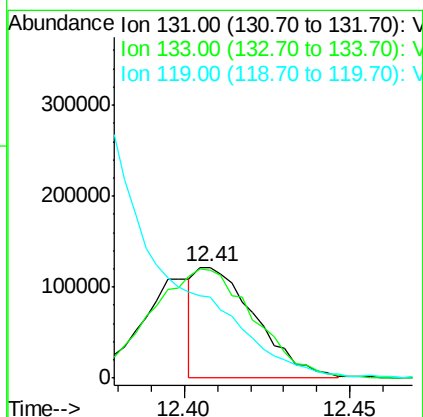
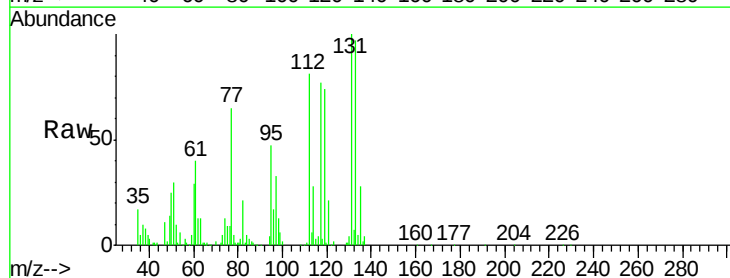
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

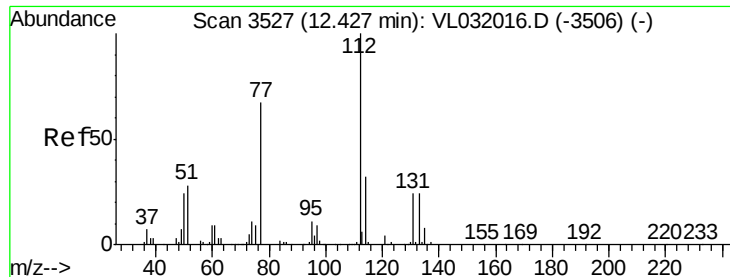
Tgt Ion:117 Resp: 2711047
Ion Ratio Lower Upper
117 100
82 64.4 52.7 79.1
119 36.7 25.5 38.3



#56
1,1,1,2-Tetrachloroethane
Concen: 1.22 ppbv
RT: 12.41 min Scan# 3521
Delta R.T. 0.00 min
Lab File: VL032017.D
Acq: 31 May 2018 16:46

Tgt Ion:131 Resp: 152109
Ion Ratio Lower Upper
131 100
133 175.8 76.7 115.1#
119 0.0 49.2 73.8#

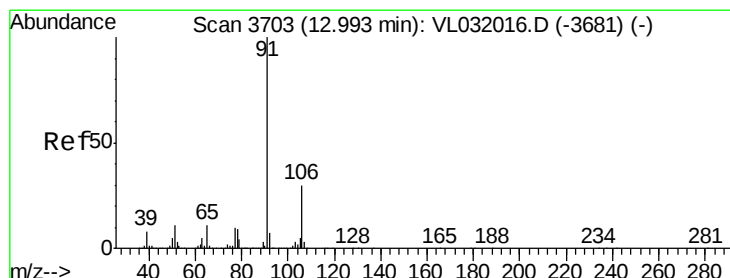
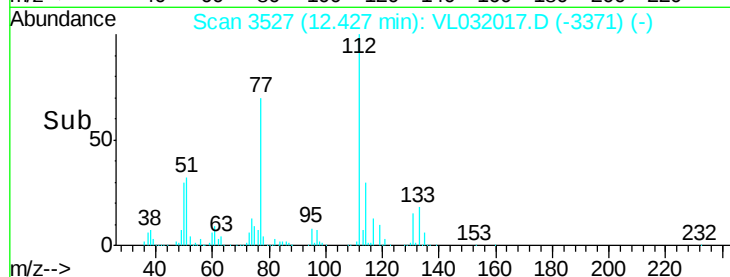
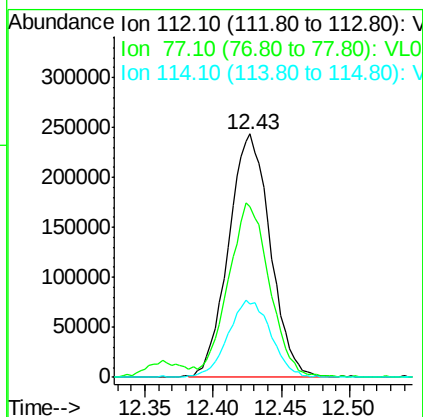
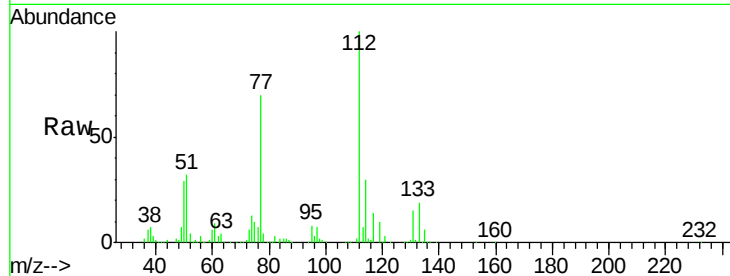




#57
Chlorobenzene
Concen: 2.18 ppbv
RT: 12.43 min Scan# 3527
Delta R.T. 0.00 min
Lab File: VL032017.D
Acq: 31 May 2018 16:46

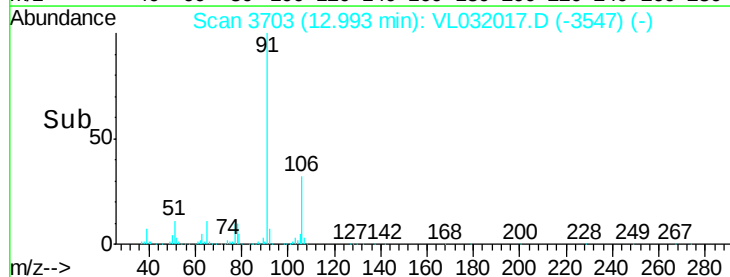
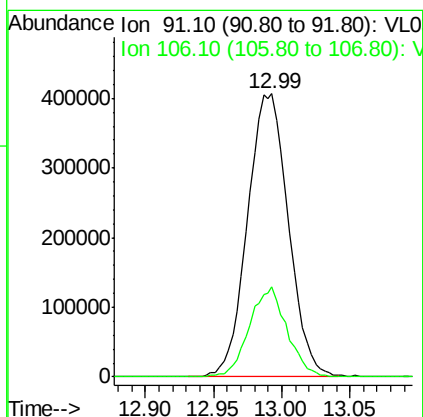
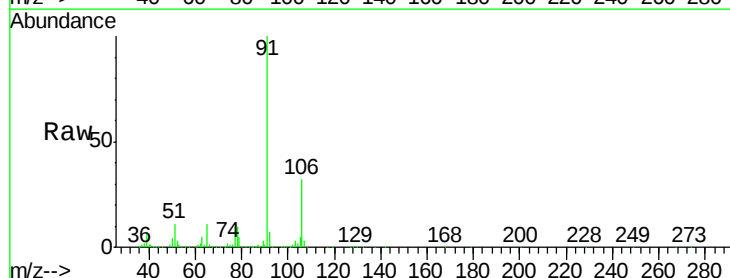
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

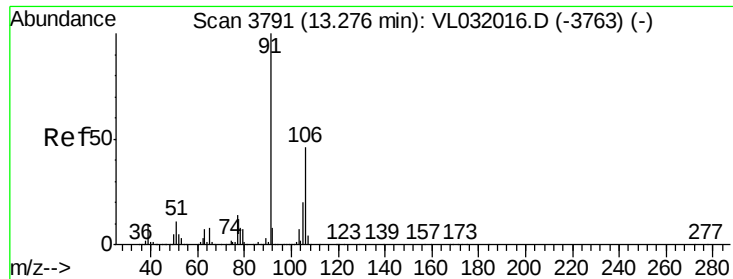
Tgt Ion: 112 Resp: 517714
Ion Ratio Lower Upper
112 100
77 69.6 54.3 81.5
114 30.1 28.6 35.0



#58
Ethyl Benzene
Concen: 2.15 ppbv
RT: 12.99 min Scan# 3703
Delta R.T. 0.00 min
Lab File: VL032017.D
Acq: 31 May 2018 16:46

Tgt Ion: 91 Resp: 846344
Ion Ratio Lower Upper
91 100
106 31.6 24.2 36.2

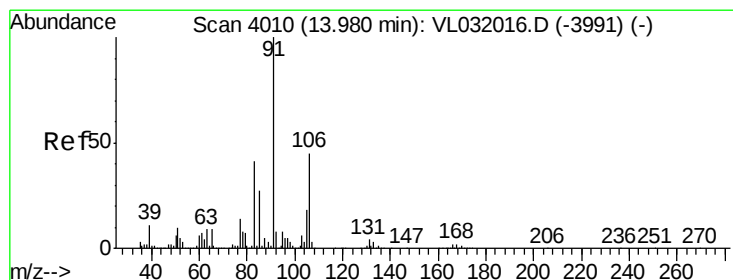
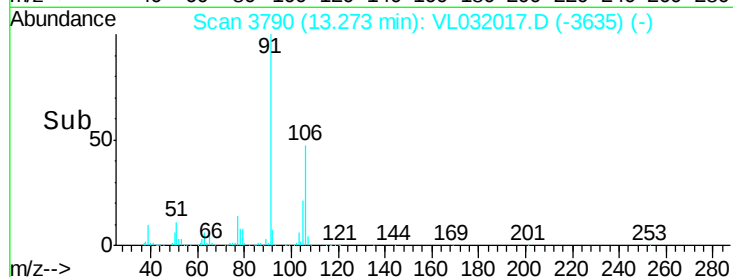
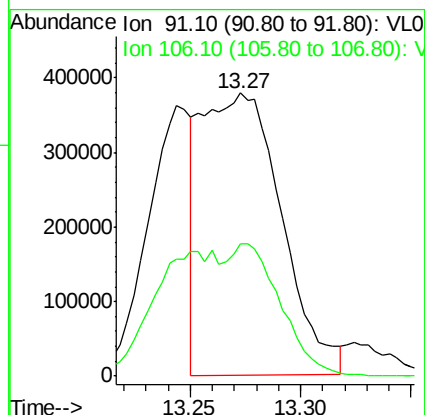
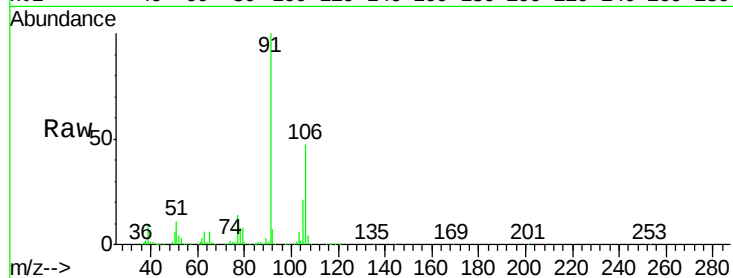




#59
m/p-Xylene
Concen: 2.83 ppbv
RT: 13.27 min Scan# 3790
Delta R.T. -0.00 min
Lab File: VL032017.D
Acq: 31 May 2018 16:46

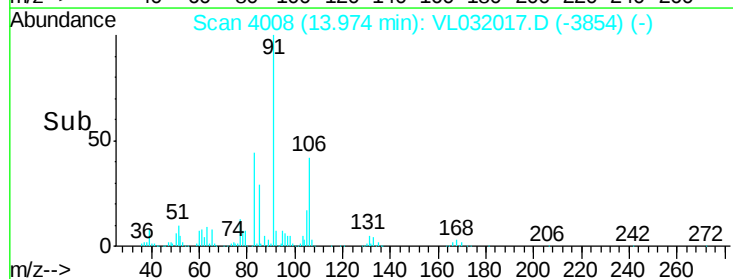
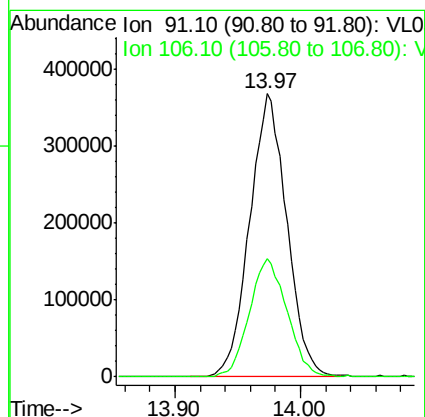
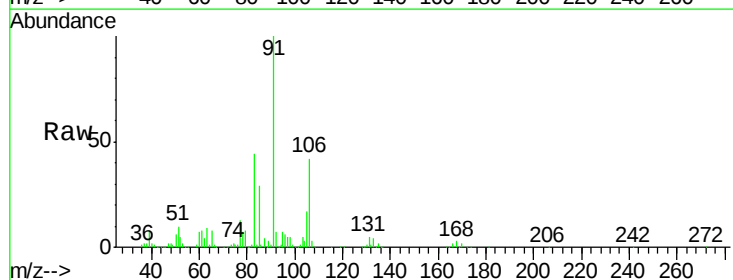
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

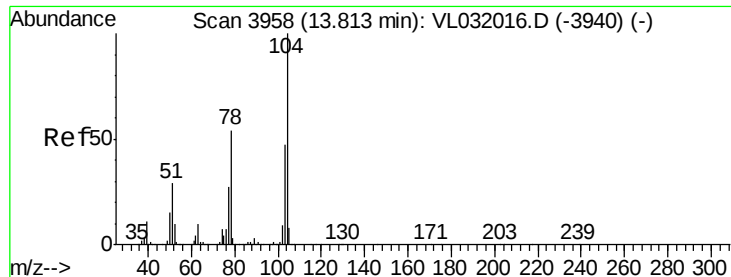
Tgt Ion: 91 Resp: 951265
Ion Ratio Lower Upper
91 100
106 68.0 35.7 53.5#



#60
o-Xylene
Concen: 2.25 ppbv
RT: 13.97 min Scan# 4008
Delta R.T. -0.01 min
Lab File: VL032017.D
Acq: 31 May 2018 16:46

Tgt Ion: 91 Resp: 758424
Ion Ratio Lower Upper
91 100
106 42.3 21.9 65.5





#61

Styrene

Concen: 2.00 ppbv

RT: 13.81 min Scan# 3957

Delta R.T. -0.00 min

Lab File: VL032017.D

Acq: 31 May 2018 16:46

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

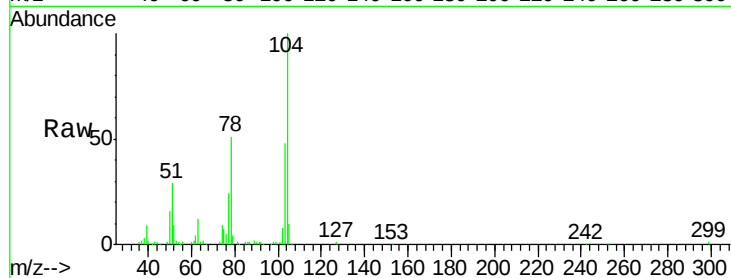
Tgt Ion:104 Resp: 136046

Ion Ratio Lower Upper

104 100

78 57.3 43.0 64.4

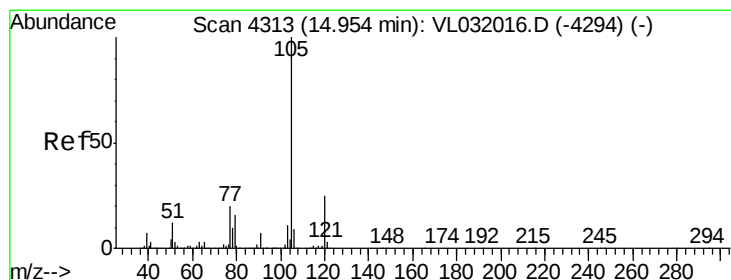
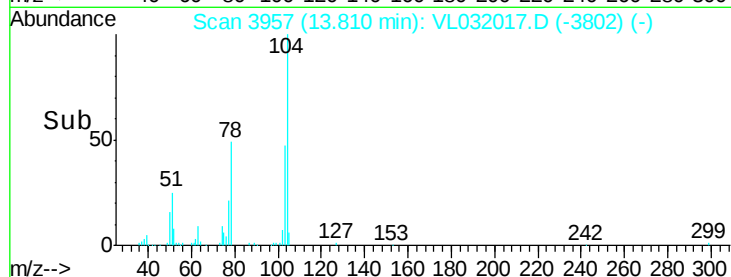
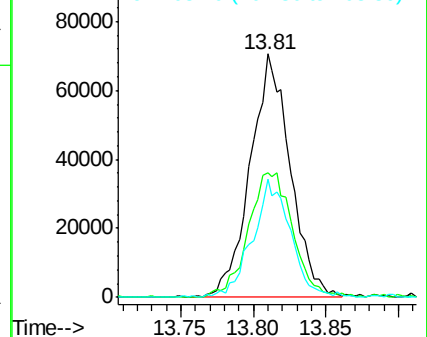
103 46.2 37.4 56.2



Abundance Ion 104.10 (103.80 to 104.80): V

Ion 78.10 (77.80 to 78.80): VL0

Ion 103.10 (102.80 to 103.80): V



#62

Isopropylbenzene

Concen: 2.19 ppbv

RT: 14.95 min Scan# 4312

Delta R.T. -0.00 min

Lab File: VL032017.D

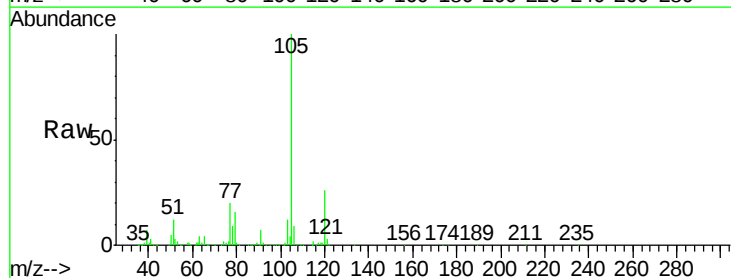
Acq: 31 May 2018 16:46

Tgt Ion:105 Resp: 939822

Ion Ratio Lower Upper

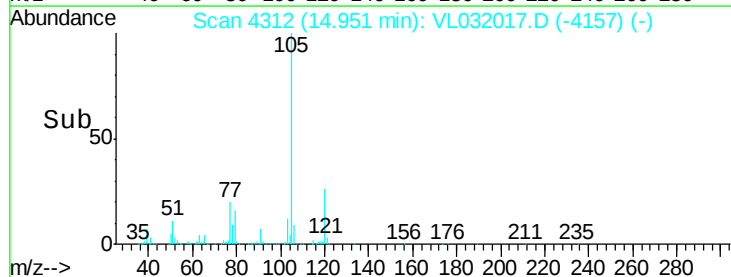
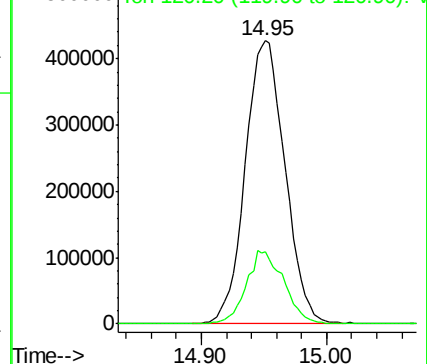
105 100

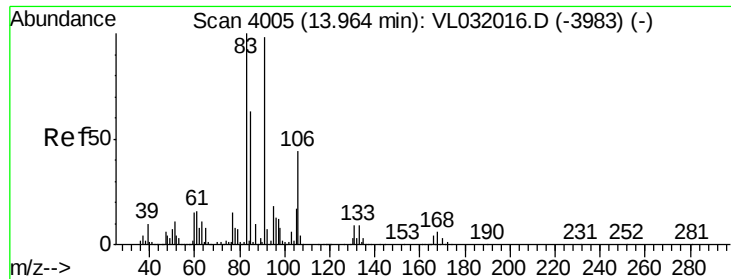
120 24.5 19.8 29.8



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

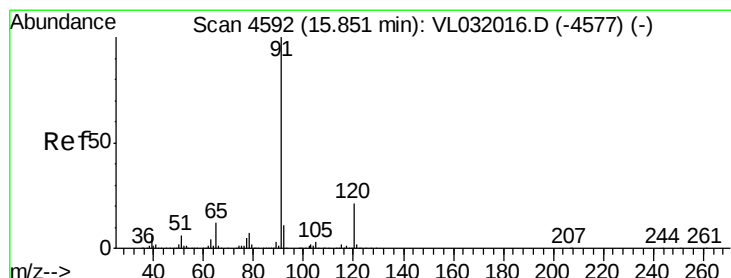
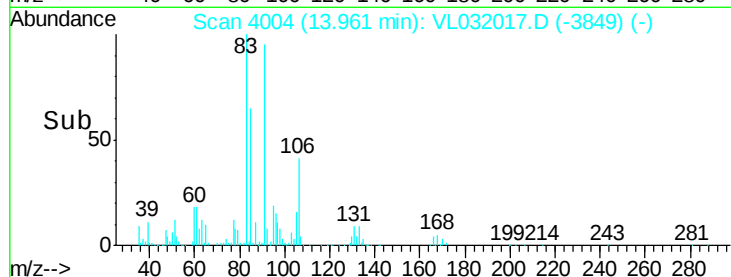
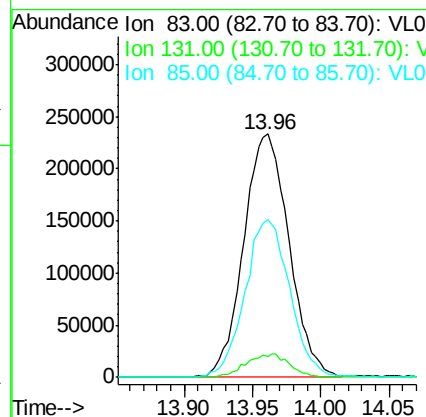
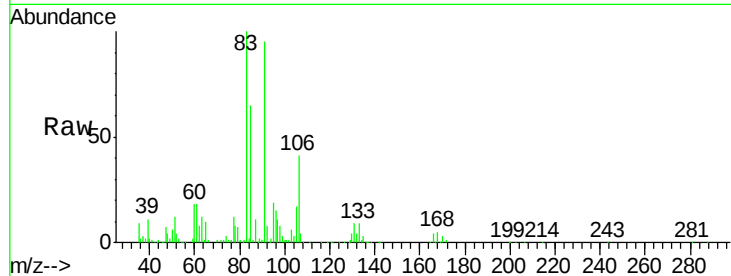




#63
 1,1,2,2-Tetrachloroethane
 Concen: 2.25 ppbv
 RT: 13.96 min Scan# 4004
 Delta R.T. -0.00 min
 Lab File: VL032017.D
 Acq: 31 May 2018 16:46

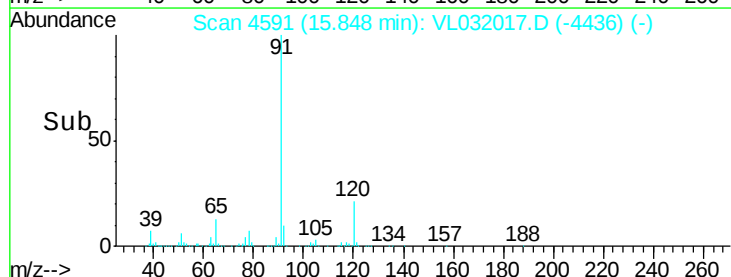
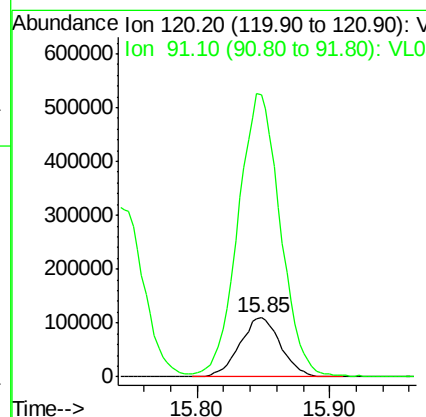
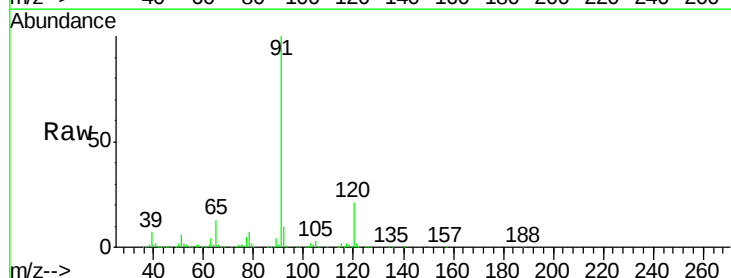
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002

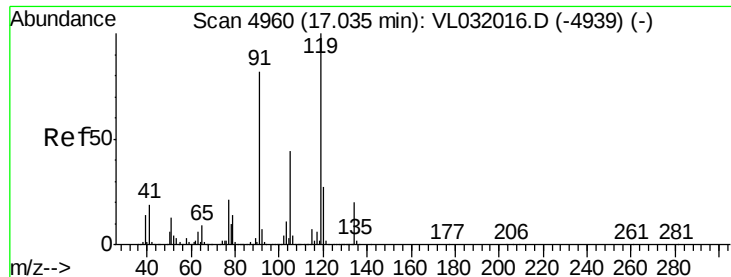
Tgt Ion: 83 Resp: 536049
 Ion Ratio Lower Upper
 83 100
 131 9.4 4.7 14.0
 85 64.4 32.2 96.6



#64
 n-propylbenzene
 Concen: 2.16 ppbv
 RT: 15.85 min Scan# 4591
 Delta R.T. -0.00 min
 Lab File: VL032017.D
 Acq: 31 May 2018 16:46

Tgt Ion: 120 Resp: 233117
 Ion Ratio Lower Upper
 120 100
 91 500.4 391.1 586.7





#65

tert-Butylbenzene

Concen: 2.15 ppbv

RT: 17.03 min Scan# 4959

Delta R.T. -0.00 min

Lab File: VL032017.D

Acq: 31 May 2018 16:46

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

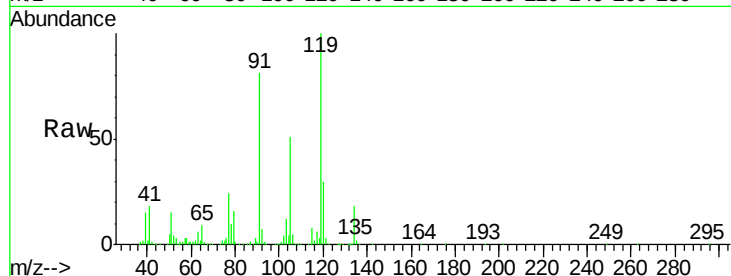
Tgt Ion: 119 Resp: 821854

Ion Ratio Lower Upper

119 100

91 86.9 68.2 102.4

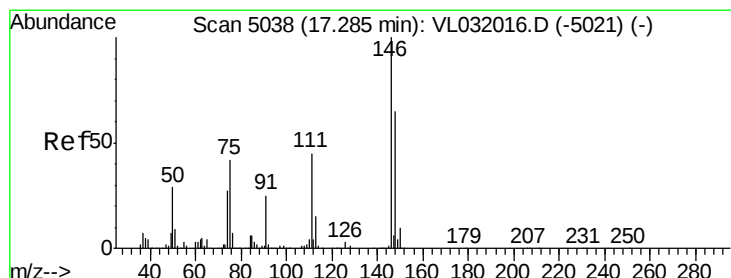
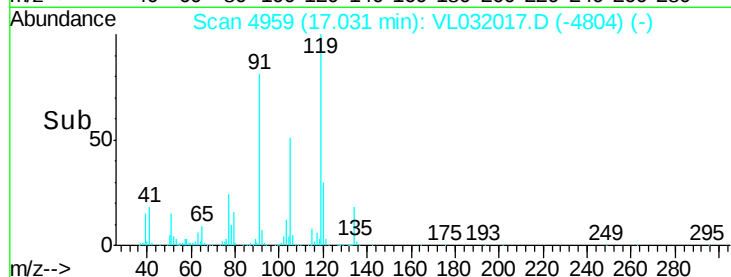
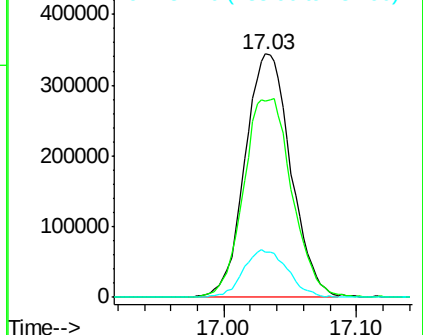
134 19.1 15.6 23.4



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: 0.94 ppbv

RT: 17.29 min Scan# 5038

Delta R.T. 0.00 min

Lab File: VL032017.D

Acq: 31 May 2018 16:46

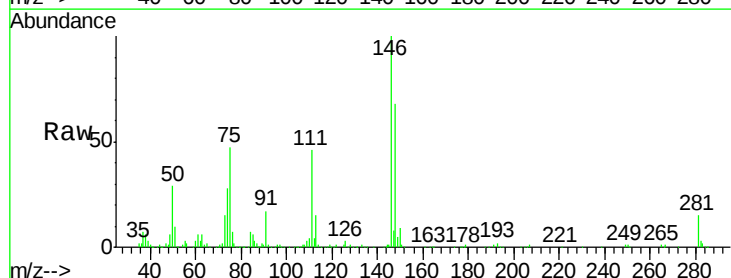
Tgt Ion: 91 Resp: 33455

Ion Ratio Lower Upper

91 100

126 53.6 14.2 21.2#

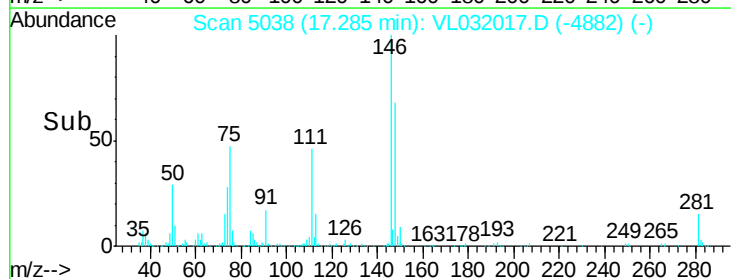
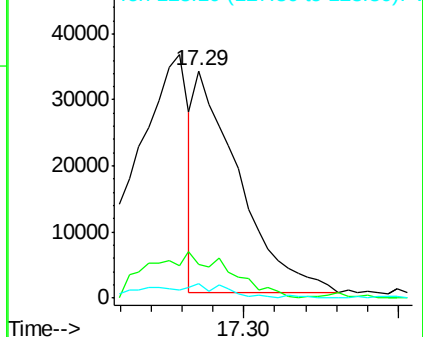
128 12.6 4.5 6.7#

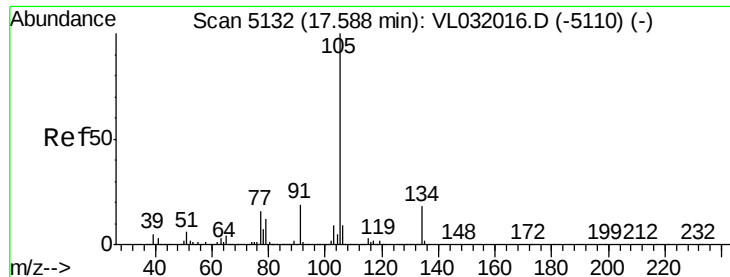


Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 126.10 (125.80 to 126.80): V

Ion 128.10 (127.80 to 128.80): V

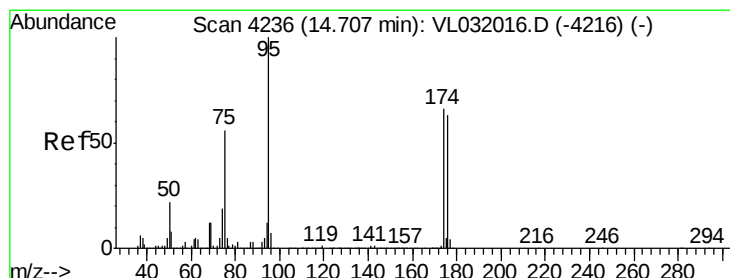
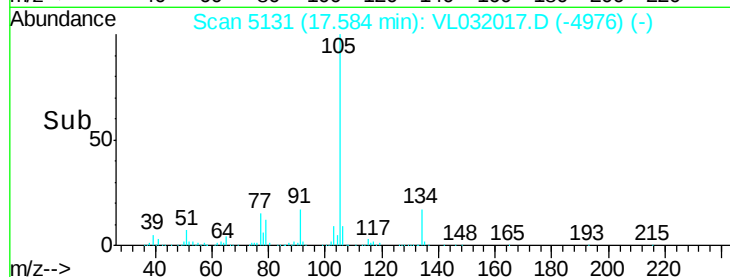
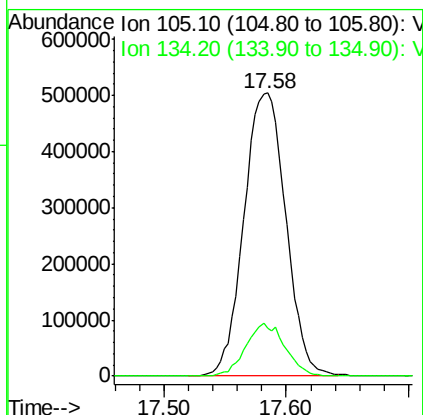
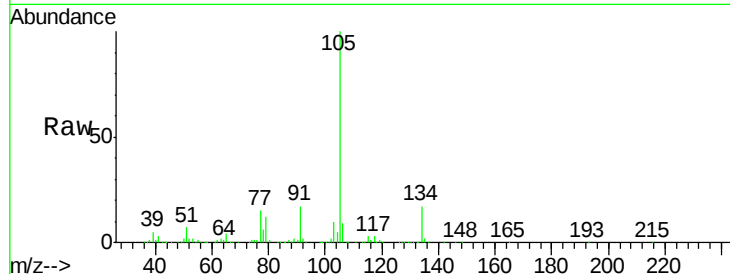




#67
 sec-Butylbenzene
 Concen: 2.25 ppbv
 RT: 17.58 min Scan# 5131
 Delta R.T. -0.00 min
 Lab File: VL032017.D
 Acq: 31 May 2018 16:46

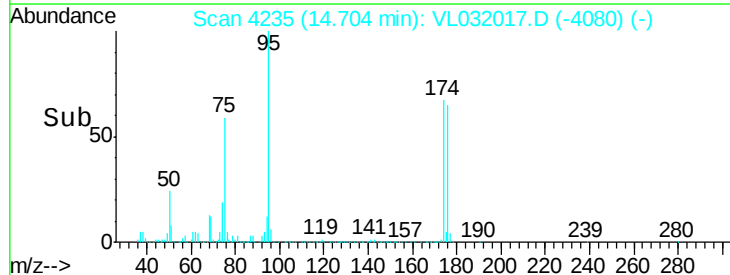
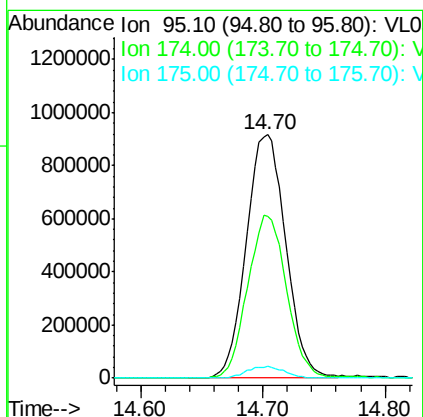
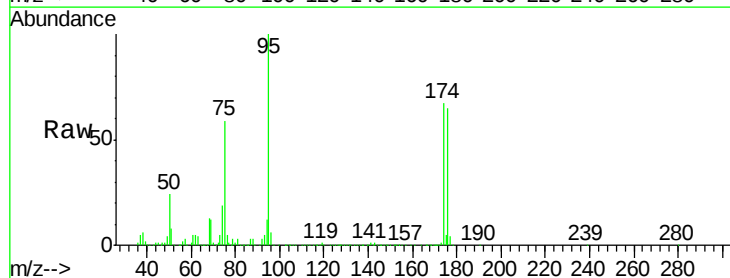
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002

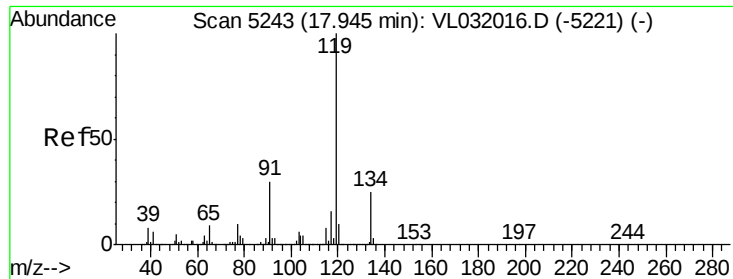
Tgt Ion: 105 Resp: 1195517
 Ion Ratio Lower Upper
 105 100
 134 17.5 14.4 21.6



#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.73 ppbv
 RT: 14.70 min Scan# 4235
 Delta R.T. -0.00 min
 Lab File: VL032017.D
 Acq: 31 May 2018 16:46

Tgt Ion: 95 Resp: 2049703
 Ion Ratio Lower Upper
 95 100
 174 66.6 53.2 79.8
 175 4.7 3.7 5.5

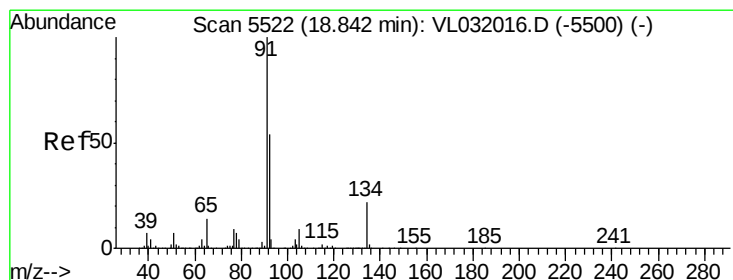
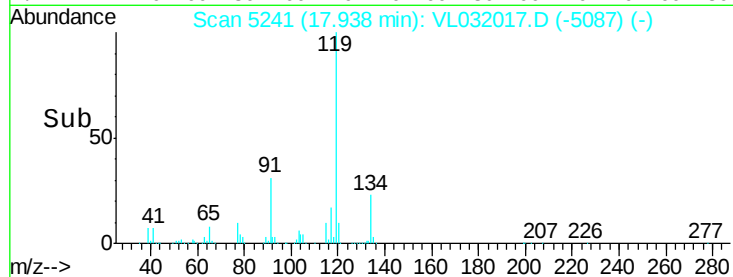
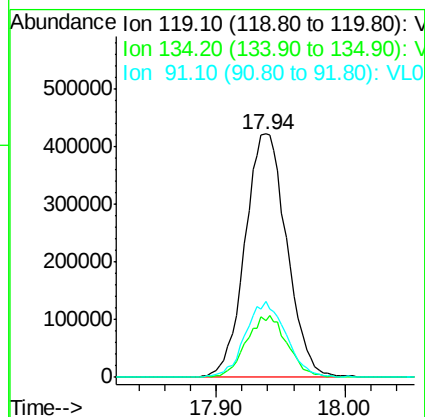
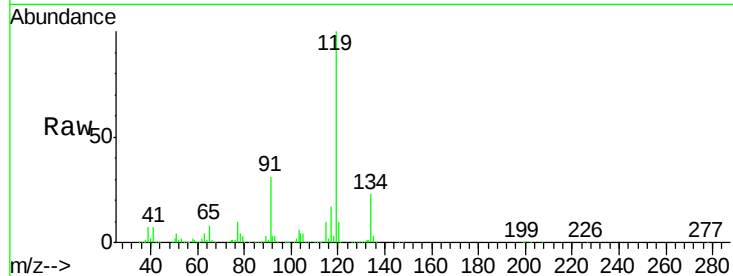




#69
p-Isopropyltoluene
Concen: 2.23 ppbv
RT: 17.94 min Scan# 5241
Delta R.T. -0.01 min
Lab File: VL032017.D
Acq: 31 May 2018 16:46

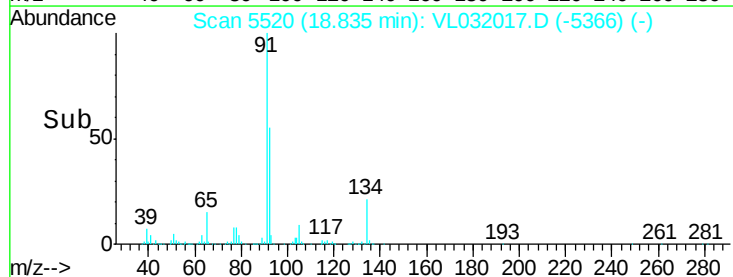
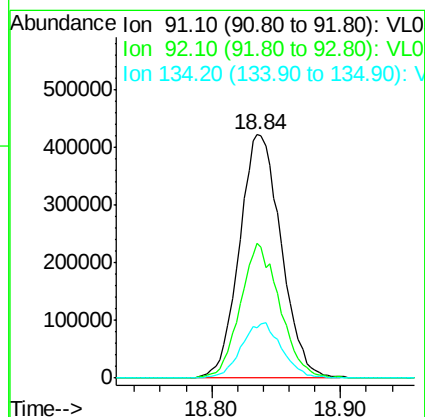
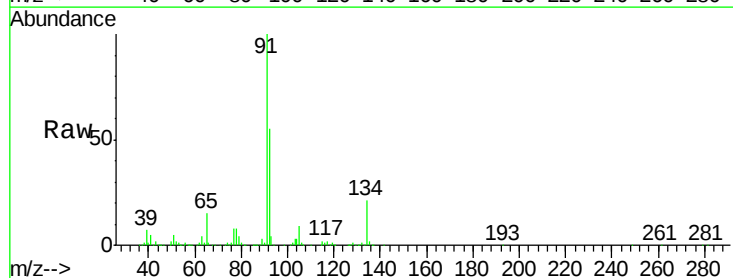
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

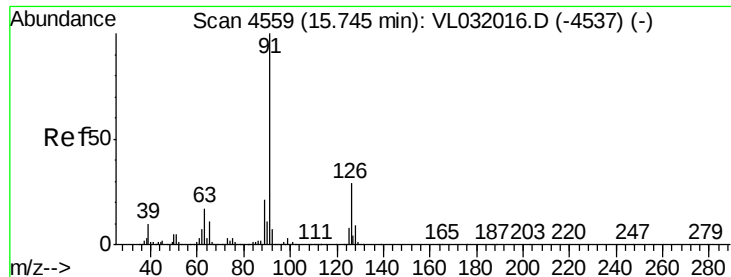
Tgt Ion: 119 Resp: 948114
Ion Ratio Lower Upper
119 100
134 25.0 19.9 29.9
91 30.5 24.1 36.1



#70
n-Butylbenzene
Concen: 2.16 ppbv
RT: 18.84 min Scan# 5520
Delta R.T. -0.01 min
Lab File: VL032017.D
Acq: 31 May 2018 16:46

Tgt Ion: 91 Resp: 947877
Ion Ratio Lower Upper
91 100
92 53.0 42.5 63.7
134 22.0 17.4 26.2





#71

2-Chlorotoluene

Concen: 2.19 ppbv

RT: 15.74 min Scan# 4558

Delta R.T. -0.00 min

Lab File: VL032017.D

Acq: 31 May 2018 16:46

Instrument :

MSVOA_L

ClientSampleId :

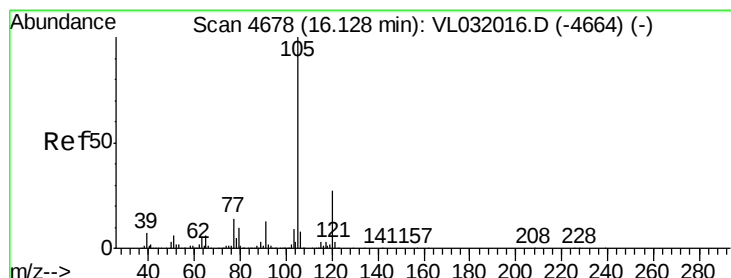
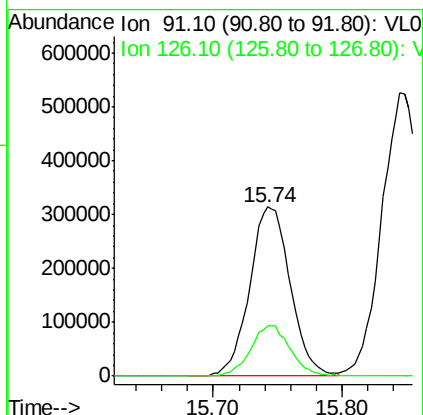
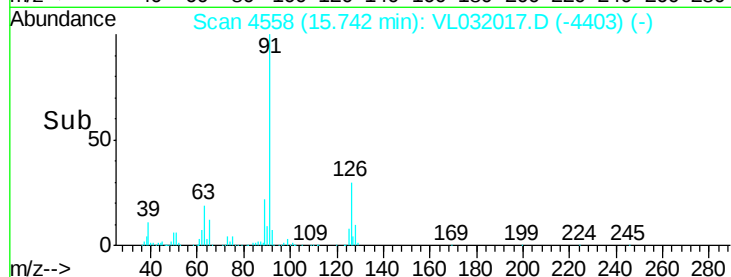
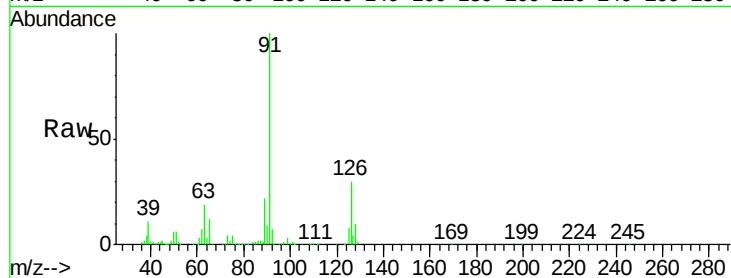
VSTDIC002

Tgt Ion: 91 Resp: 690169

Ion Ratio Lower Upper

91 100

126 29.3 11.7 46.7



#72

4-Ethyltoluene

Concen: 2.18 ppbv

RT: 16.12 min Scan# 4677

Delta R.T. -0.00 min

Lab File: VL032017.D

Acq: 31 May 2018 16:46

Tgt Ion: 105 Resp: 745913

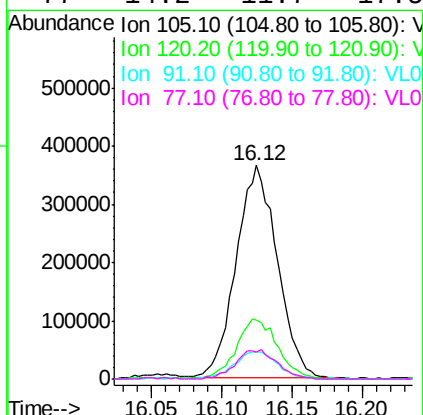
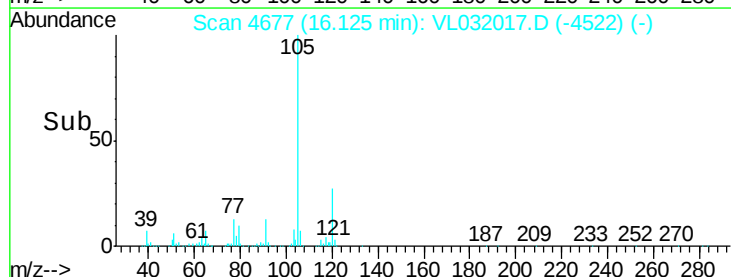
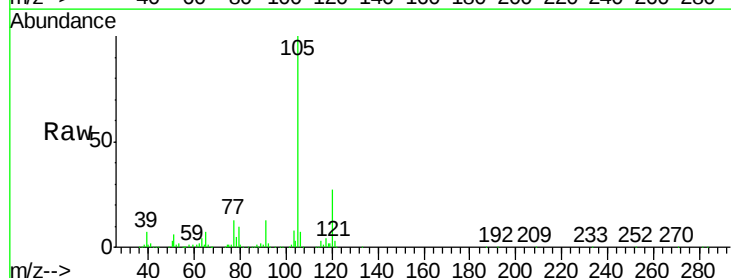
Ion Ratio Lower Upper

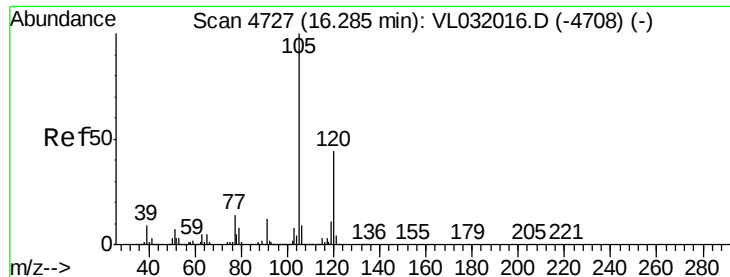
105 100

120 28.3 23.4 35.0

91 13.0 10.7 16.1

77 14.2 11.7 17.5

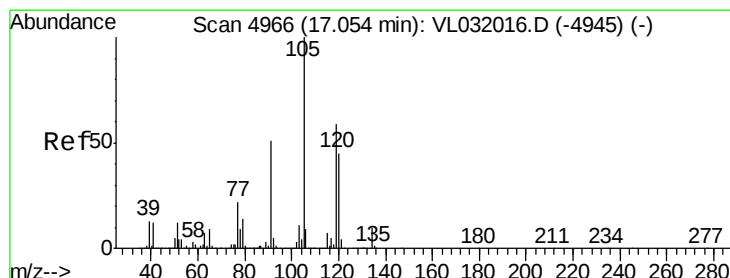
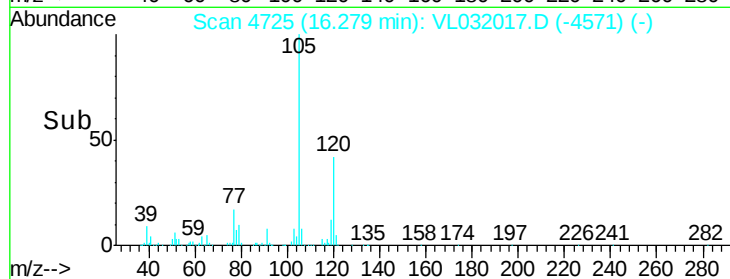
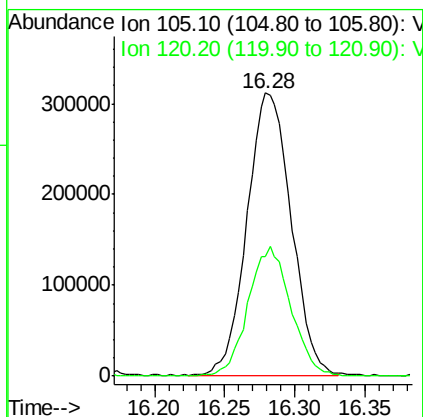
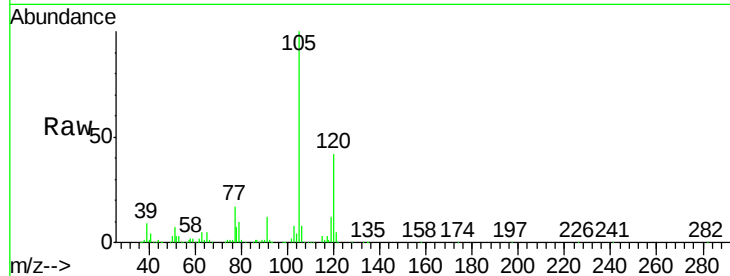




#73
 1,3,5-Trimethylbenzene
 Concen: 2.15 ppbv
 RT: 16.28 min Scan# 4725
 Delta R.T. -0.01 min
 Lab File: VL032017.D
 Acq: 31 May 2018 16:46

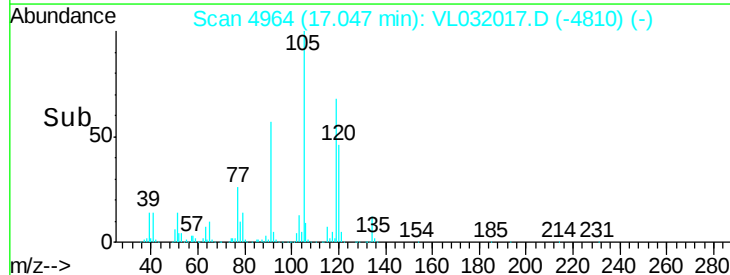
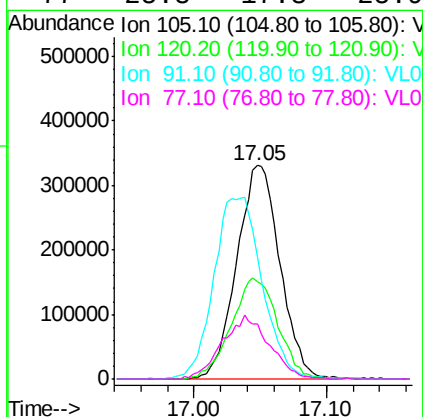
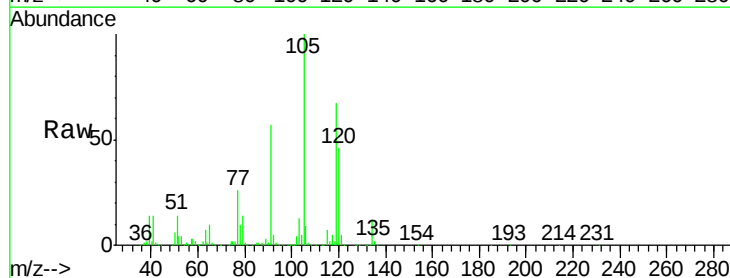
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002

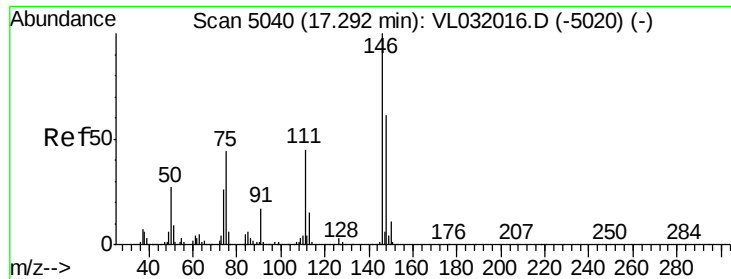
Tgt Ion:105 Resp: 677484
 Ion Ratio Lower Upper
 105 100
 120 42.5 35.0 52.4



#74
 1,2,4-Trimethylbenzene
 Concen: 2.14 ppbv
 RT: 17.05 min Scan# 4964
 Delta R.T. -0.01 min
 Lab File: VL032017.D
 Acq: 31 May 2018 16:46

Tgt Ion:105 Resp: 747415
 Ion Ratio Lower Upper
 105 100
 120 45.6 36.0 54.0
 91 56.6 41.4 62.0
 77 25.8 17.3 25.9





#75

1,3-Dichlorobenzene

Concen: 2.29 ppbv

RT: 17.29 min Scan# 5040

Delta R.T. 0.00 min

Lab File: VL032017.D

Acq: 31 May 2018 16:46

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

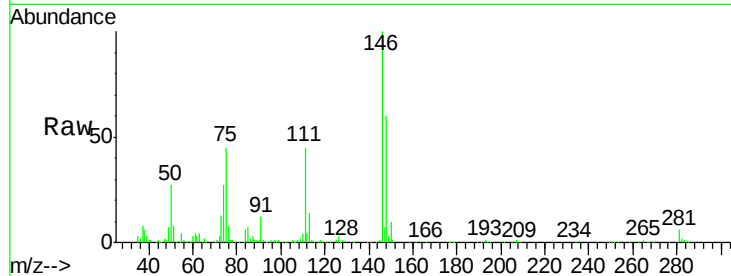
Tgt Ion:146 Resp: 497352

Ion Ratio Lower Upper

146 100

111 49.5 23.7 71.1

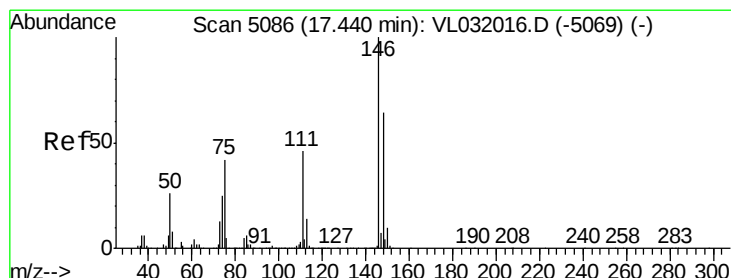
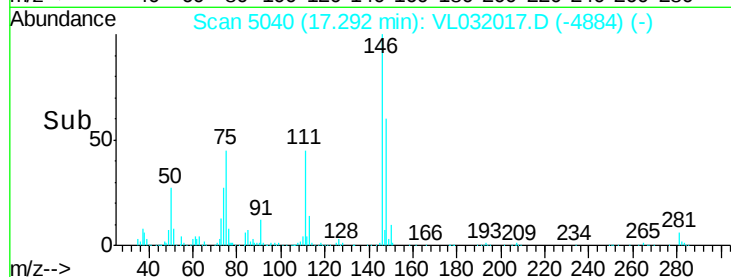
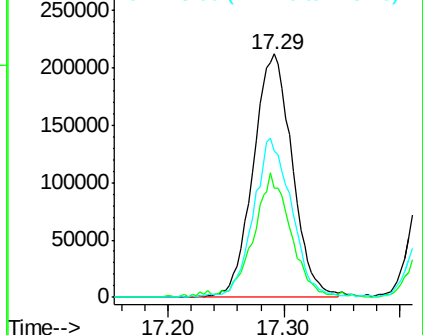
148 64.3 32.1 96.5



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: 2.25 ppbv

RT: 17.43 min Scan# 5084

Delta R.T. -0.01 min

Lab File: VL032017.D

Acq: 31 May 2018 16:46

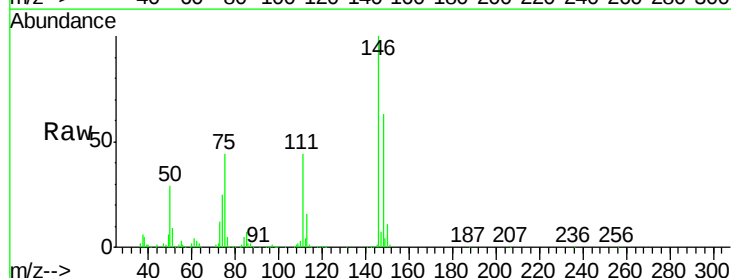
Tgt Ion:146 Resp: 482673

Ion Ratio Lower Upper

146 100

111 45.1 22.4 67.0

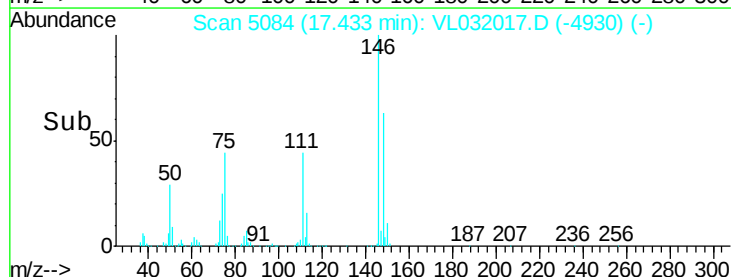
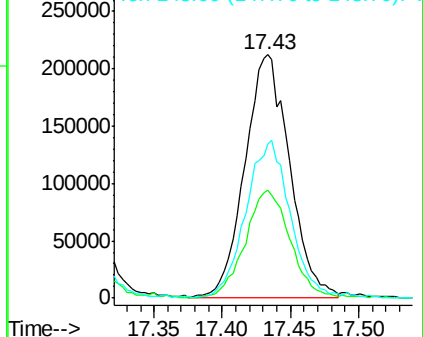
148 65.0 32.1 96.3

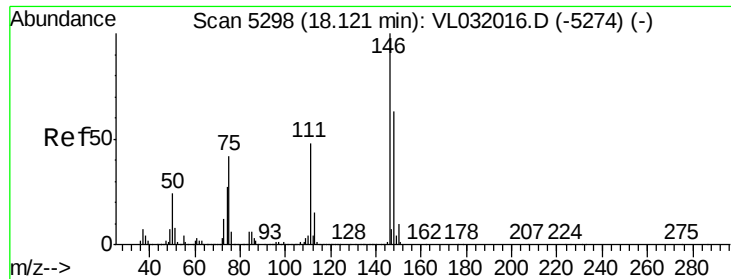


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.10 (110.80 to 111.80): V

Ion 148.00 (147.70 to 148.70): V

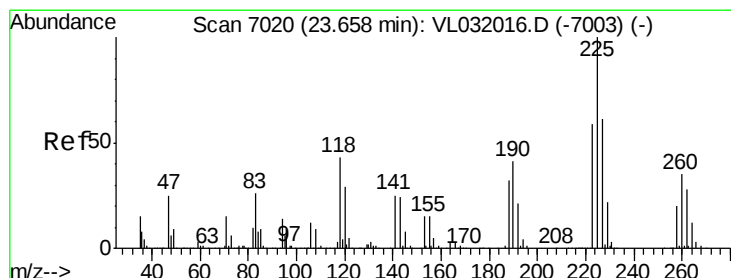
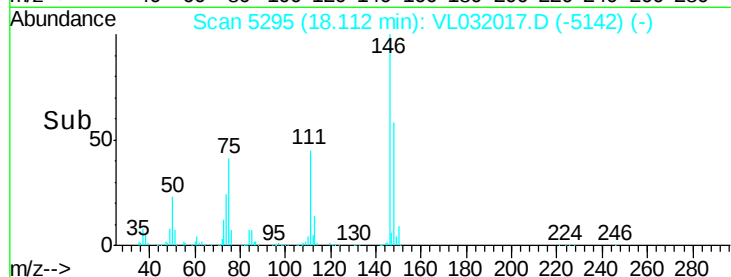
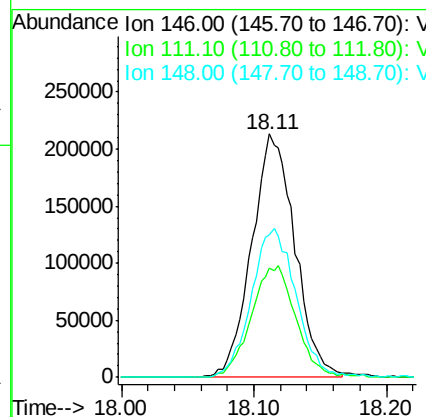
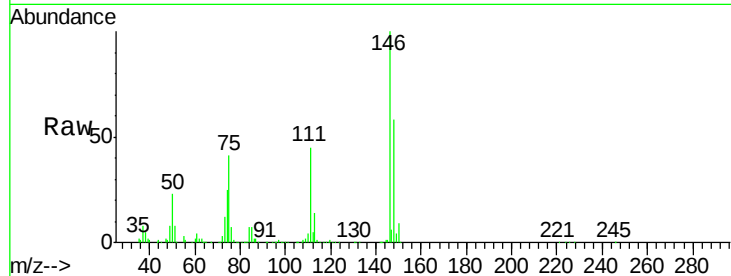




#77
 1,2-Dichlorobenzene
 Concen: 2.23 ppbv
 RT: 18.11 min Scan# 5295
 Delta R.T. -0.01 min
 Lab File: VL032017.D
 Acq: 31 May 2018 16:46

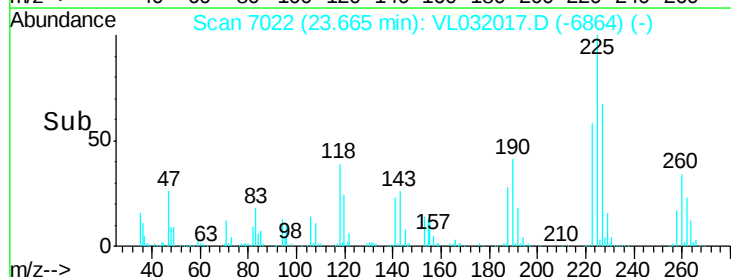
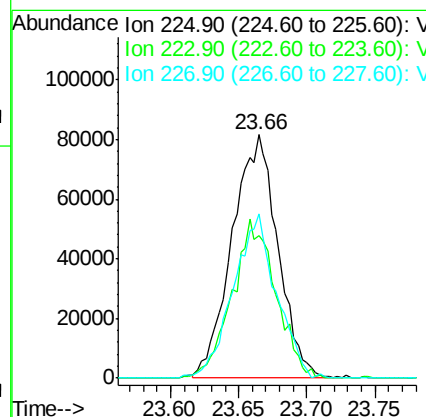
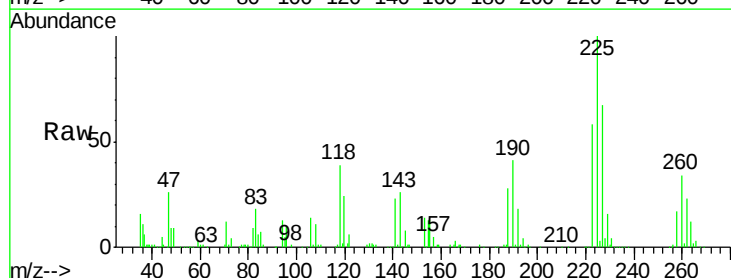
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002

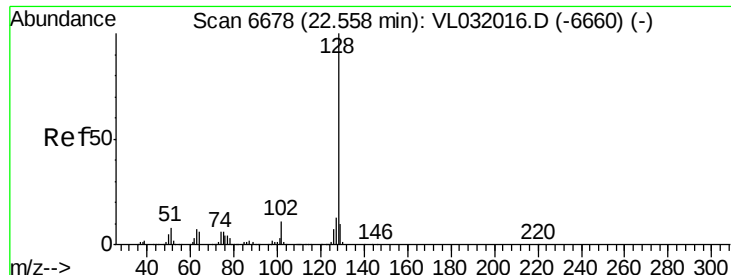
Tgt Ion:146 Resp: 482435
 Ion Ratio Lower Upper
 146 100
 111 47.7 24.2 72.6
 148 63.4 32.0 96.2



#78
 Hexachloro-1,3-Butadiene
 Concen: 2.14 ppbv
 RT: 23.66 min Scan# 7022
 Delta R.T. 0.01 min
 Lab File: VL032017.D
 Acq: 31 May 2018 16:46

Tgt Ion:225 Resp: 189601
 Ion Ratio Lower Upper
 225 100
 223 62.3 49.4 74.2
 227 63.7 51.2 76.8





#79

Naphthalene

Concen: 0.72 ppbv

RT: 22.56 min Scan# 6677

Delta R.T. -0.00 min

Lab File: VL032017.D

Acq: 31 May 2018 16:46

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

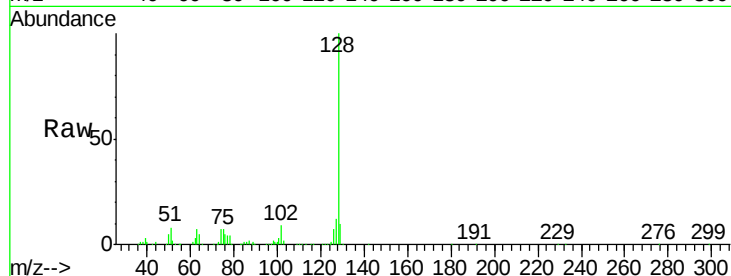
Tgt Ion:128 Resp: 171701

Ion Ratio Lower Upper

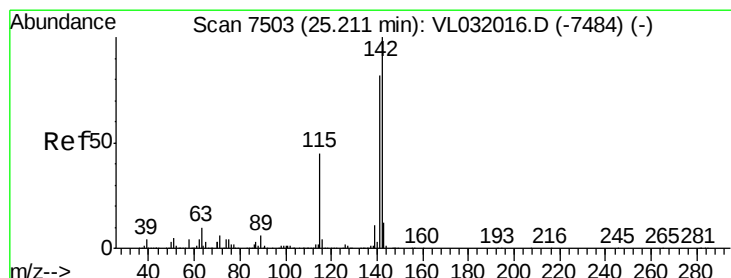
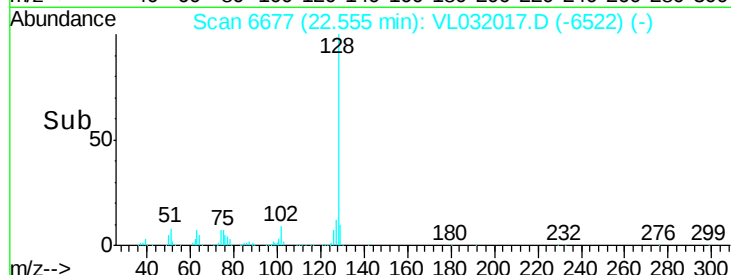
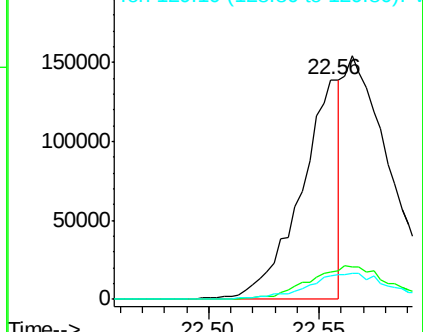
128 100

127 12.5 10.2 15.2

129 10.4 8.2 12.2



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: 0.61 ppbv

RT: 25.21 min Scan# 7503

Delta R.T. 0.00 min

Lab File: VL032017.D

Acq: 31 May 2018 16:46

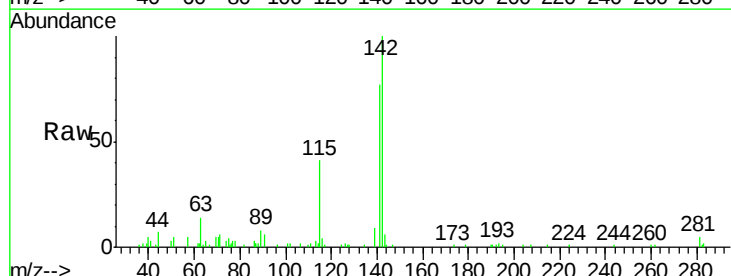
Tgt Ion:142 Resp: 38860

Ion Ratio Lower Upper

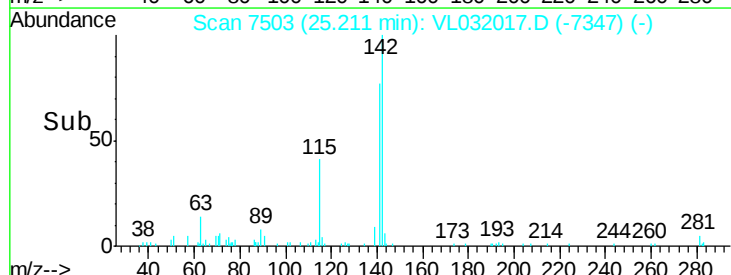
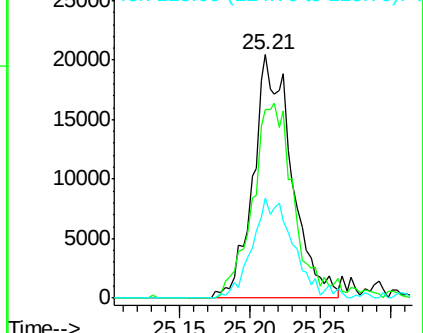
142 100

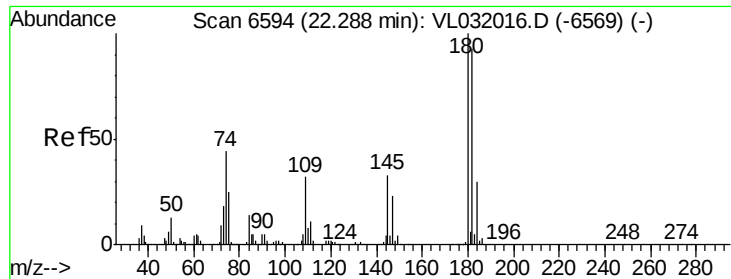
141 89.8 67.4 101.2

115 44.5 35.3 52.9



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: 0.88 ppbv
 RT: 22.28 min Scan# 6592
 Delta R.T. -0.01 min
 Lab File: VL032017.D
 Acq: 31 May 2018 16:46

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002

Tgt Ion:180 Resp: 117013
 Ion Ratio Lower Upper
 180 100
 182 0.0 77.8 116.6#
 184 61.0 24.9 37.3#

