

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL032919\
 Data File : VL033496.D
 Acq On : 29 Mar 2019 9:57
 Operator : SY/AP
 Sample : VSTDCCC010
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Mar 30 01:07:29 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL032519AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue Mar 26 16:00:50 2019
 QLast Update : Tue Mar 26 16:00:50 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.76	49	928329	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.29	114	2259651	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.24	117	2526223	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.58	95	1768155	8.93	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	89.30%

Target Compounds						Ovalue
2) Dichlorodifluoromethane	3.07	85	1160502	8.57	ppbv	99
3) Chlorodifluoromethane	3.01	51	1033324	9.67	ppbv	97
4) Chloromethane	3.17	50	572288	10.12	ppbv	99
5) Vinyl Chloride	3.29	62	563686	10.14	ppbv	95
6) Bromomethane	3.52	94	367601	10.29	ppbv	98
7) Chloroethane	3.60	64	213643	10.33	ppbv	95
8) Dichlorotetrafluoroethane	3.22	85	1380595	9.57	ppbv	95
9) Propene	3.04	41	458662	10.22	ppbv	97
10) Heptane	8.25	43	1238813	10.33	ppbv	99
11) Trichlorofluoromethane	4.00	101	1552291	9.30	ppbv	99
12) 1,1,2-Trichlorotrifluoroet	4.55	101	1081728	9.65	ppbv	97
13) Ethanol	3.64	45	116946	10.07	ppbv	66
14) Bromoethene	3.79	108	466008	10.43	ppbv	98
15) Acetone	3.90	43	1000694	8.97	ppbv	98
16) 1,3-Butadiene	3.36	39	502054	11.34	ppbv	99
17) tert-Butyl alcohol	4.36	59	202479	9.87	ppbv	98
18) 1,1-Dichloroethene	4.35	96	498200	10.35	ppbv	95
19) Isopropyl Alcohol	4.02	45	675020	9.56	ppbv #	99
20) Methylene Chloride	4.41	84	434840	9.18	ppbv	96
21) Allyl Chloride	4.48	41	742147	10.52	ppbv	98
22) trans-1,2-Dichloroethene	4.96	96	496906	9.89	ppbv	93
23) Vinyl Acetate	5.15	43	1720218	10.83	ppbv	99
24) 1,1-Dichloroethane	5.09	63	1180630	9.78	ppbv	99
25) Ethyl Acetate	5.77	43	2099703	10.14	ppbv	99
26) Hexane	5.78	57	948899	10.30	ppbv	97
27) Carbon Disulfide	4.62	76	1171007	10.69	ppbv	100
28) Methyl tert-Butyl Ether	5.11	73	1402386	10.57	ppbv	100
29) Chloroform	5.85	83	1558317	9.87	ppbv	100
30) Cyclohexane	7.25	84	799080	10.97	ppbv	96
31) cis-1,2-Dichloroethene	5.64	61	1010080	11.03	ppbv	96
32) 1,1,1-Trichloroethane	6.62	97	1525128	10.15	ppbv	99
34) 2-Butanone	5.33	43	1356632	9.99	ppbv	99
35) Carbon Tetrachloride	7.14	117	1579775	9.87	ppbv	99
36) Benzene	7.01	78	1992271	10.51	ppbv	96
37) 1,2-Dichloroethane	6.41	62	1182047	9.30	ppbv	98
38) Trichloroethene	7.96	130	805555	11.29	ppbv	98
39) 1,2-Dichloropropane	7.74	63	744436	10.02	ppbv	98
40) 1,4-Dioxane	7.95	88	283275	10.69	ppbv	90
41) Tetrahydrofuran	6.15	42	789868	10.58	ppbv	96
42) Bromodichloromethane	7.92	83	1711700	9.89	ppbv	98
43) Methyl Methacrylate	8.14	69	827748	10.75	ppbv	98

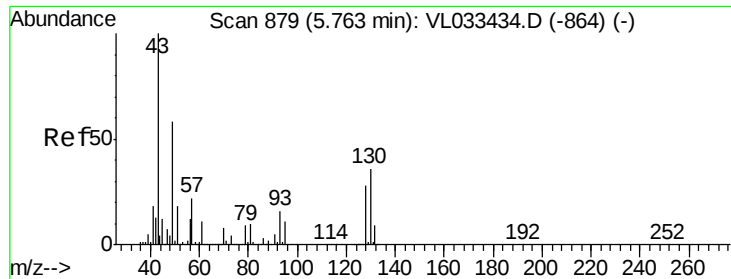
Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL032919\
 Data File : VL033496.D
 Acq On : 29 Mar 2019 9:57
 Operator : SY/AP
 Sample : VSTDCCC010
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Mar 30 01:07:29 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL032519AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue Mar 26 16:00:50 2019
 QLast Update : Tue Mar 26 16:00:50 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.99	57	3287673	9.92	ppbv	99
45) t-1,3-Dichloropropene	9.42	75	1119101	11.84	ppbv	99
46) cis-1,3-Dichloropropene	8.84	75	1256013	11.38	ppbv	96
47) 1,1,2-Trichloroethane	9.61	97	856950	10.16	ppbv	99
48) Dibromochloromethane	10.45	129	1560322	10.97	ppbv	98
49) Bromoform	13.21	173	1398011	10.29	ppbv	99
50) 4-Methyl-2-Pentanone	8.87	43	2033754	10.23	ppbv	98
51) 2-Hexanone	10.27	43	1641287	11.07	ppbv	99
52) Tetrachloroethene	11.38	164	810694	11.33	ppbv	98
53) Toluene	9.95	91	2487683	11.29	ppbv	99
54) 1,2-Dibromoethane	10.76	107	1392280	10.55	ppbv	95
56) 1,1,1,2-Tetrachloroethane	12.28	131	1079385	9.32	ppbv	95
57) Chlorobenzene	12.30	112	1864201	9.50	ppbv	92
58) Ethyl Benzene	12.87	91	3389143	10.05	ppbv	99
59) m/p-Xylene	13.15	91	2487981	8.26	ppbv #	100
60) o-Xylene	13.85	91	2768659	9.50	ppbv	99
61) Styrene	13.69	104	2134368	10.67	ppbv	98
62) Isopropylbenzene	14.83	105	3928926	9.52	ppbv	99
63) 1,1,2,2-Tetrachloroethane	13.84	83	1908146	8.89	ppbv	99
64) n-propylbenzene	15.72	120	1006421	9.61	ppbv	98
65) tert-Butylbenzene	16.91	119	3499239	9.62	ppbv	98
66) Benzyl Chloride	17.16	91	1878494	11.11	ppbv	98
67) sec-Butylbenzene	17.46	105	4945203	9.56	ppbv	100
69) p-Isopropyltoluene	17.82	119	4130250	9.81	ppbv	99
70) n-Butylbenzene	18.72	91	4313065	9.67	ppbv	99
71) 2-Chlorotoluene	15.62	91	3009647	9.59	ppbv	99
72) 4-Ethyltoluene	16.00	105	3202102	9.78	ppbv	99
73) 1,3,5-Trimethylbenzene	16.16	105	3090856	9.86	ppbv	99
74) 1,2,4-Trimethylbenzene	16.93	105	3197813	9.52	ppbv	96
75) 1,3-Dichlorobenzene	17.17	146	1925557	9.27	ppbv	99
76) 1,4-Dichlorobenzene	17.31	146	1926658	9.52	ppbv	100
77) 1,2-Dichlorobenzene	17.99	146	1881405	9.55	ppbv	99
78) Hexachloro-1,3-Butadiene	23.54	225	1408158	10.80	ppbv	99
79) Naphthalene	22.42	128	3263985	11.35	ppbv	99
80) Naphthalene, 2-methyl-	25.11	142	1532626	15.88	ppbv	97
81) 1,2,4-Trichlorobenzene	22.14	180	1669836	10.47	ppbv	100

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



#1

Bromochloromethane

Concen: 10.00 ppbv

RT: 5.76 min Scan# 879

Delta R.T. -0.00 min

Lab File: VL033496.D

Acq: 29 Mar 2019 9:57

Instrument :

MSVOA_L

ClientSampleId :

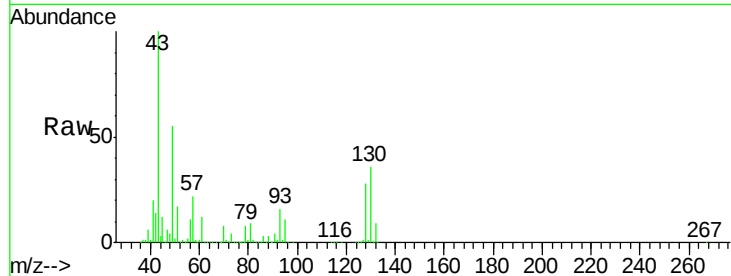
Tot Ion: 49 Resp: 928329

Ion Ratio Lower Upper

49 100

128 51.0 24.0 72.0

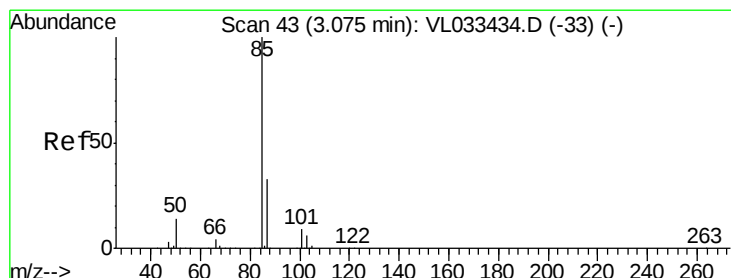
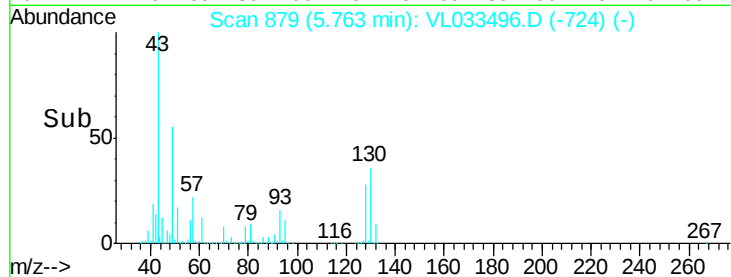
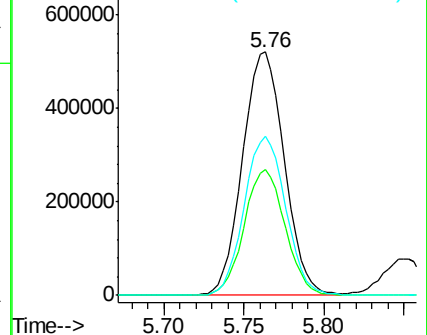
130 65.3 31.2 93.6



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: 8.57 ppbv

RT: 3.07 min Scan# 43

Delta R.T. -0.00 min

Lab File: VL033496.D

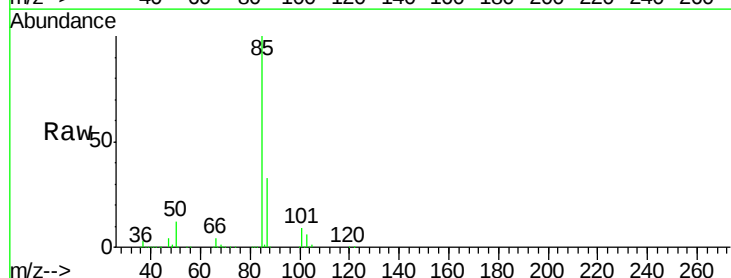
Acq: 29 Mar 2019 9:57

Tgt Ion: 85 Resp: 1160502

Ion Ratio Lower Upper

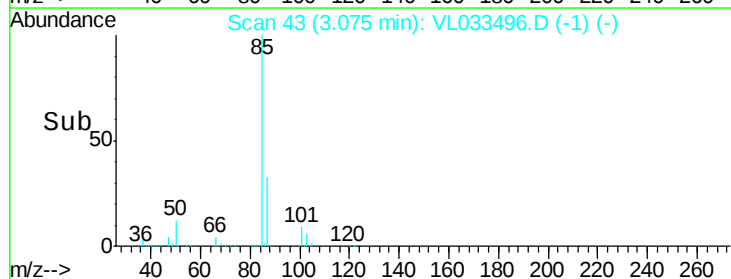
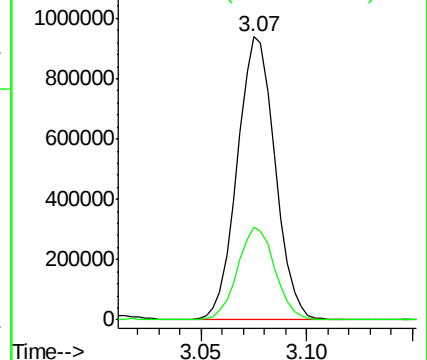
85 100

87 32.7 26.7 40.1



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 9.67 ppbv

RT: 3.01 min Scan# 24

Delta R.T. -0.00 min

Lab File: VL033496.D

Acq: 29 Mar 2019 9:57

Instrument :

MSVOA_L

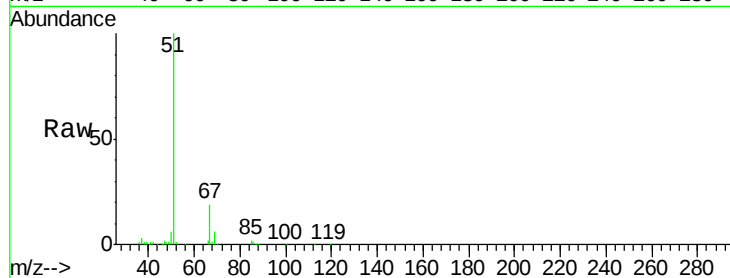
ClientSampleId :

Tot Ion: 51 Resp: 1033324

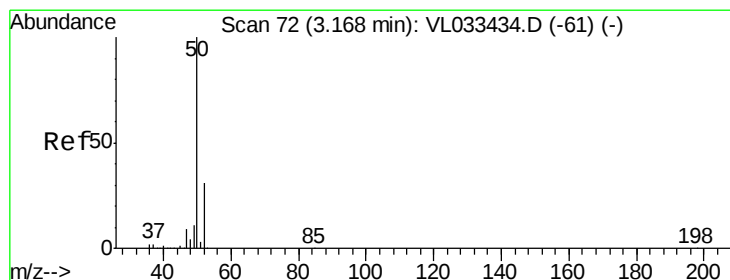
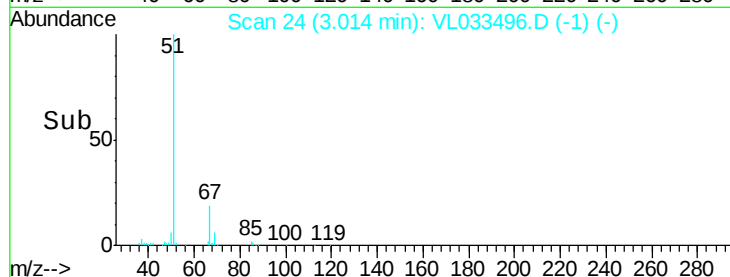
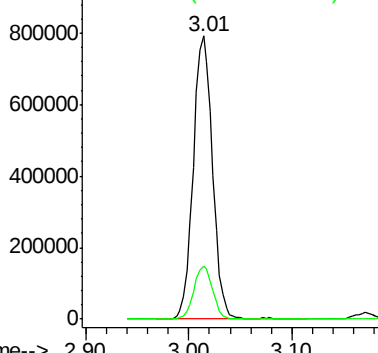
Ion Ratio Lower Upper

51 100

67 18.2 15.7 23.5



Abundance Ion 51.00 (50.70 to 51.70): VL0
Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 10.12 ppbv

RT: 3.17 min Scan# 73

Delta R.T. 0.00 min

Lab File: VL033496.D

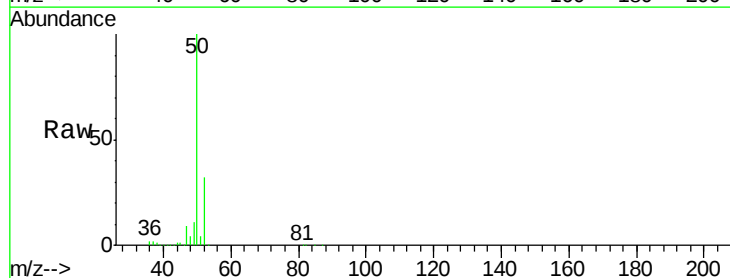
Acq: 29 Mar 2019 9:57

Tgt Ion: 50 Resp: 572288

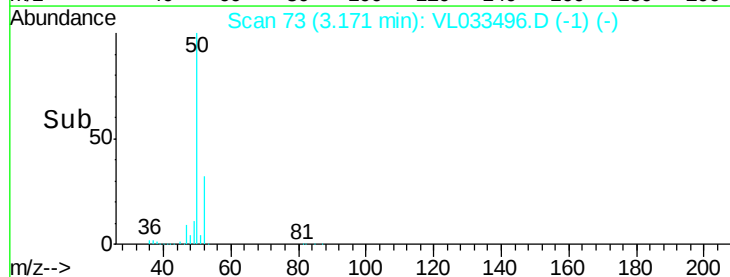
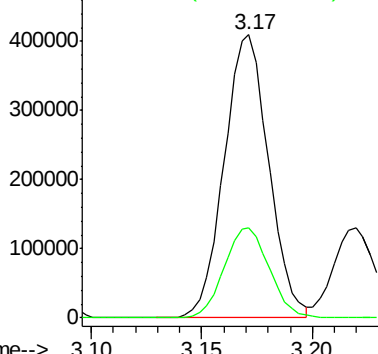
Ion Ratio Lower Upper

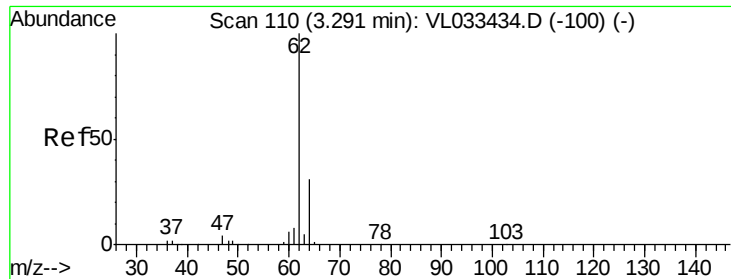
50 100

52 32.0 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: 10.14 ppbv

RT: 3.29 min Scan# 110

Delta R.T. -0.00 min

Lab File: VL033496.D

Acq: 29 Mar 2019 9:57

Instrument :

MSVOA_L

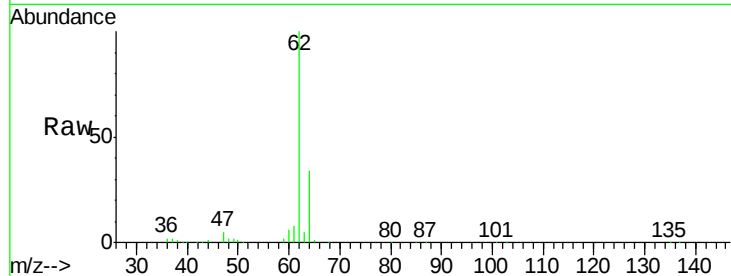
ClientSampleId :

Tot Ion: 62 Resp: 563686

Ion Ratio Lower Upper

62 100

64 33.7 24.9 37.3



Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 64.10 (63.80 to 64.80): VL0

3.29

400000

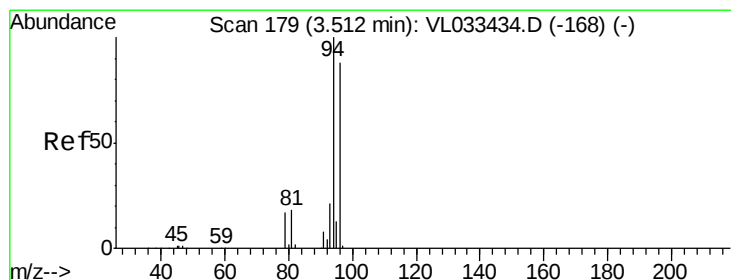
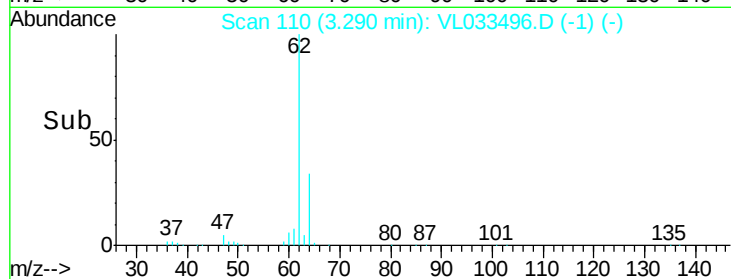
300000

200000

100000

0

Time-->



#6

Bromomethane

Concen: 10.29 ppbv

RT: 3.52 min Scan# 180

Delta R.T. 0.00 min

Lab File: VL033496.D

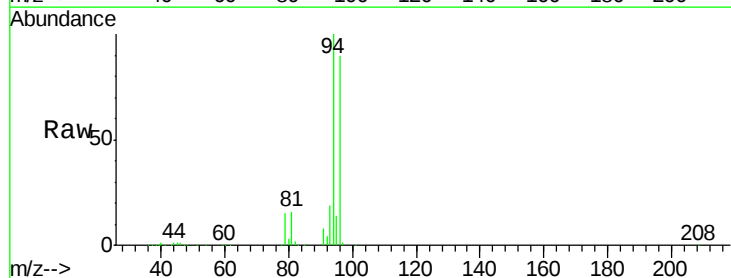
Acq: 29 Mar 2019 9:57

Tgt Ion: 94 Resp: 367601

Ion Ratio Lower Upper

94 100

96 89.6 70.2 105.2



Abundance Ion 94.00 (93.70 to 94.70): VL0

Ion 96.00 (95.70 to 96.70): VL0

3.52

300000

250000

200000

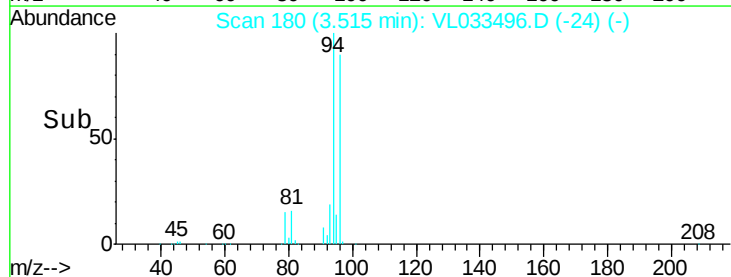
150000

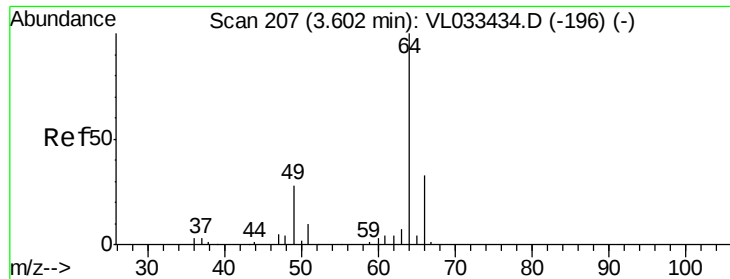
100000

50000

0

Time-->





#7

Chloroethane

Concen: 10.33 ppbv

RT: 3.60 min Scan# 206

Delta R.T. -0.00 min

Lab File: VL033496.D

Acq: 29 Mar 2019 9:57

Instrument :

MSVOA_L

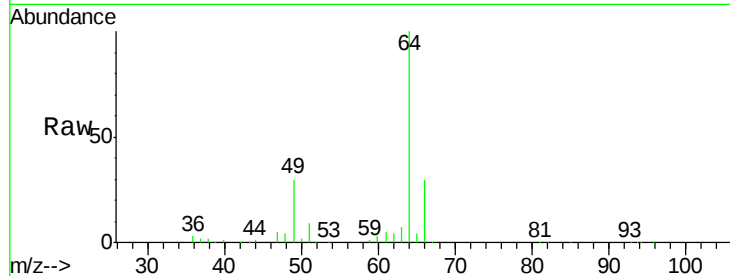
ClientSampleId :

Tot Ion: 64 Resp: 213643

Ion Ratio Lower Upper

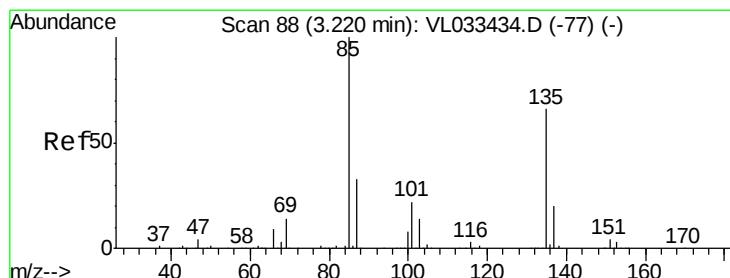
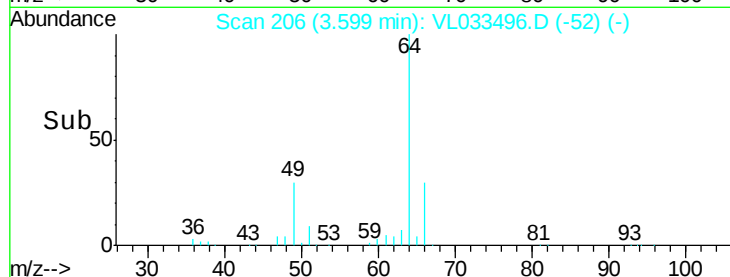
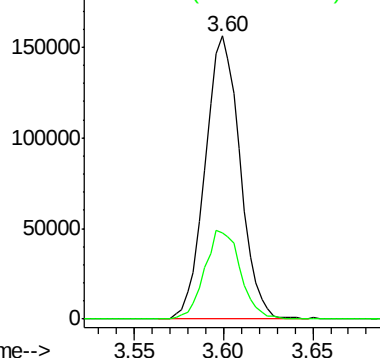
64 100

66 30.3 26.7 40.1



Abundance Ion 64.10 (63.80 to 64.80): VL0

Ion 66.10 (65.80 to 66.80): VL0



#8

Dichlorotetrafluoroethane

Concen: 9.57 ppbv

RT: 3.22 min Scan# 88

Delta R.T. -0.00 min

Lab File: VL033496.D

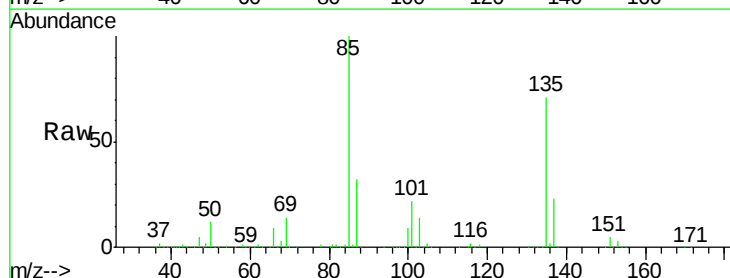
Acq: 29 Mar 2019 9:57

Tgt Ion: 85 Resp: 1380595

Ion Ratio Lower Upper

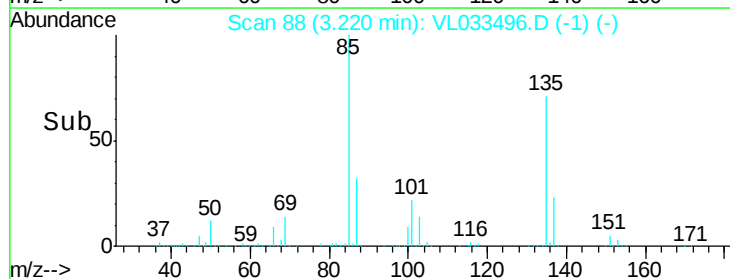
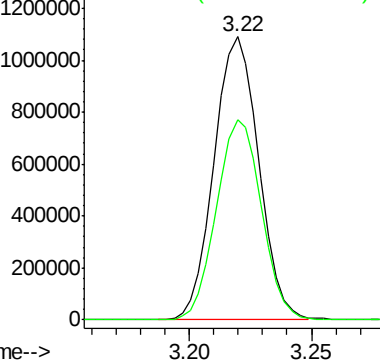
85 100

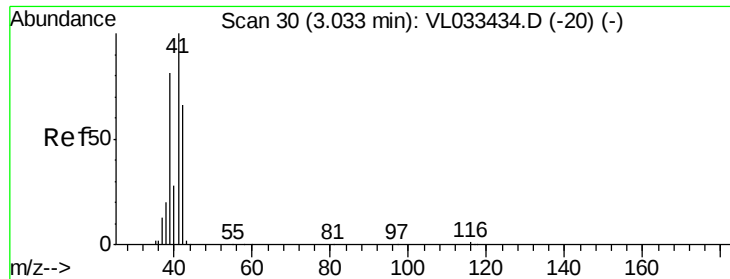
135 71.7 54.0 81.0



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 135.00 (134.70 to 135.70): V





#9

Propene

Concen: 10.22 ppbv

RT: 3.04 min Scan# 31

Delta R.T. 0.00 min

Lab File: VL033496.D

Acq: 29 Mar 2019 9:57

Instrument :

MSVOA_L

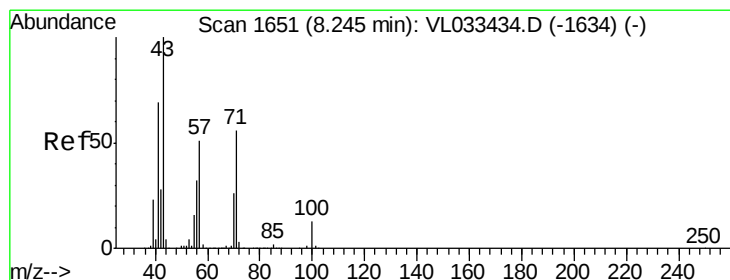
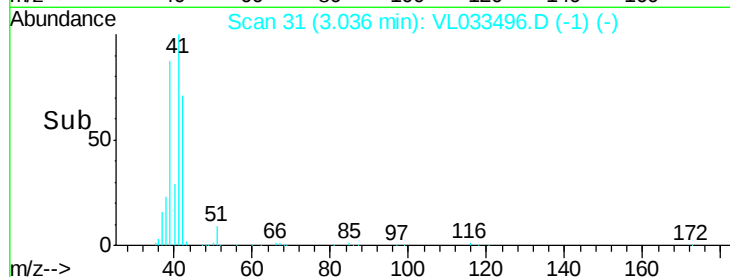
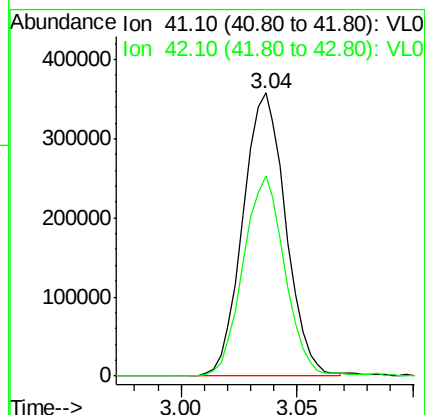
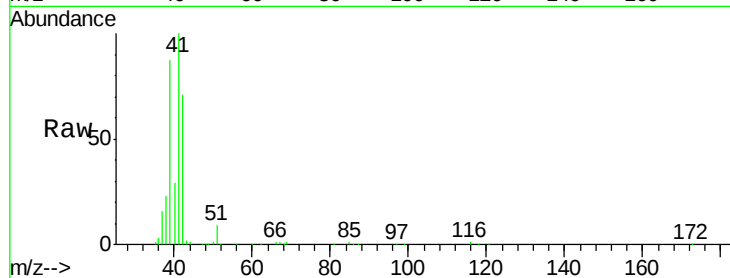
ClientSampleId :

Tot Ion: 41 Resp: 458662

Ion Ratio Lower Upper

41 100

42 69.6 53.9 80.9



#10

Heptane

Concen: 10.33 ppbv

RT: 8.25 min Scan# 1652

Delta R.T. 0.00 min

Lab File: VL033496.D

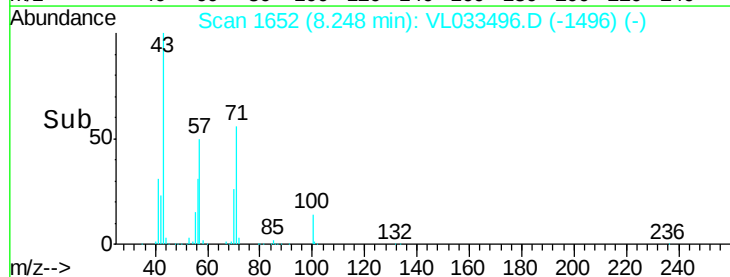
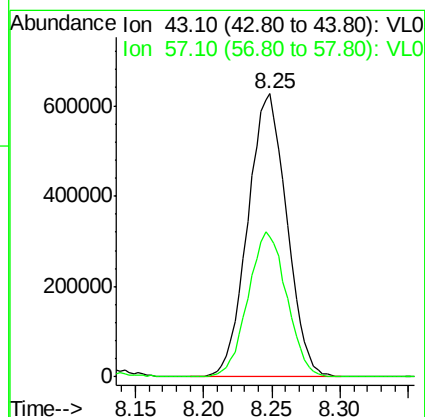
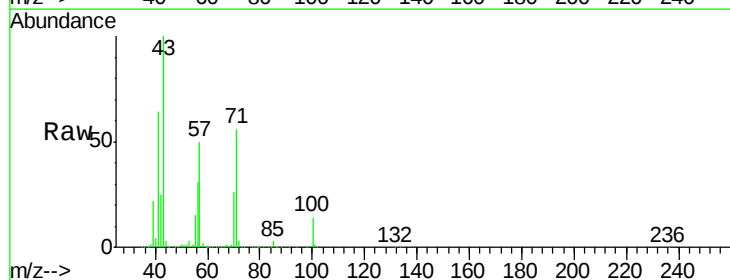
Acq: 29 Mar 2019 9:57

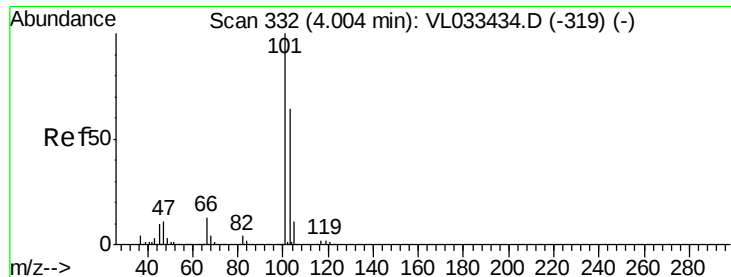
Tgt Ion: 43 Resp: 1238813

Ion Ratio Lower Upper

43 100

57 51.2 40.6 60.8

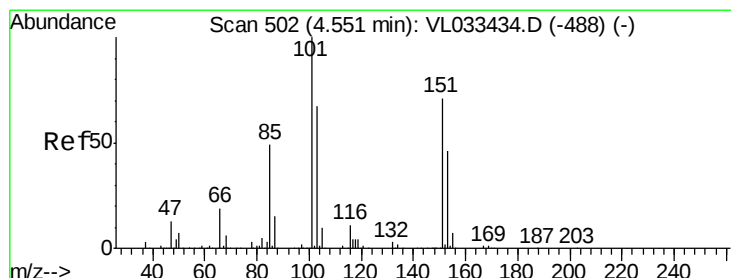
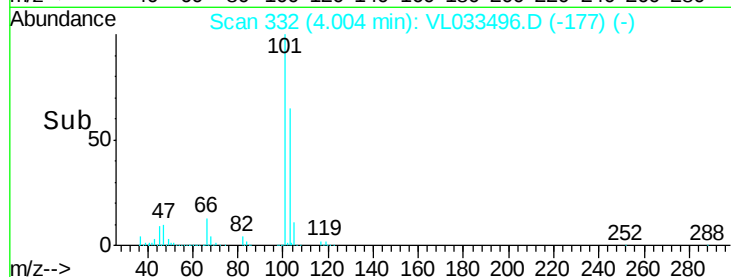
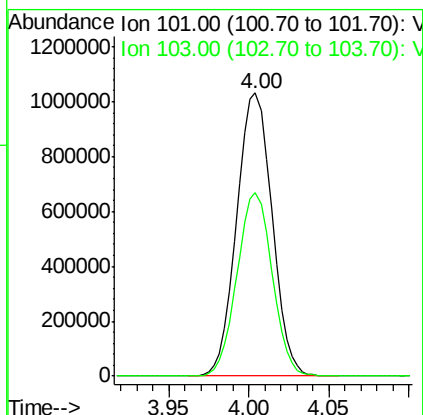
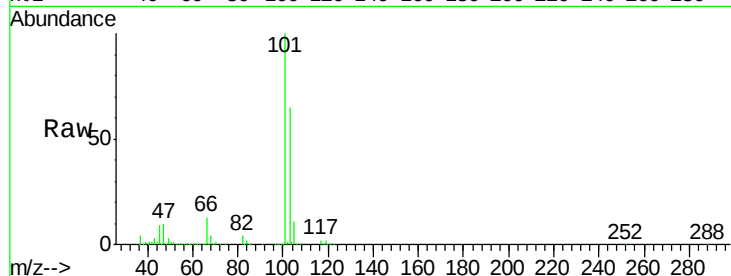




#11
 Trichlorofluoromethane
 Concen: 9.30 ppbv
 RT: 4.00 min Scan# 332
 Delta R.T. -0.00 min
 Lab File: VL033496.D
 Acq: 29 Mar 2019 9:57

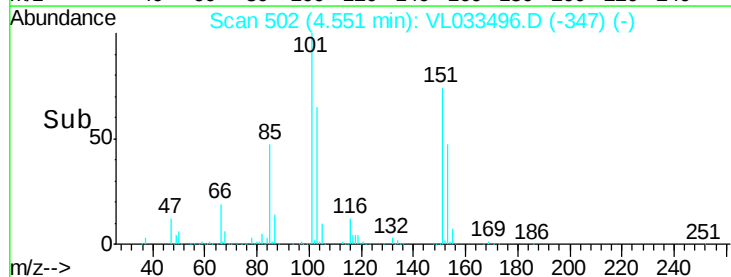
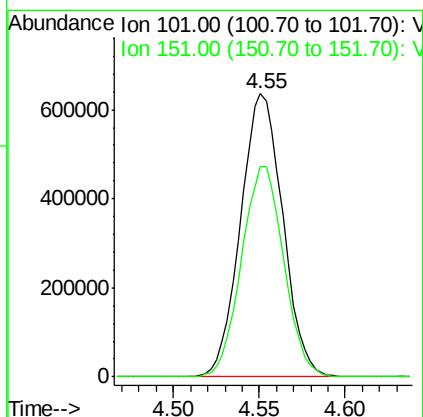
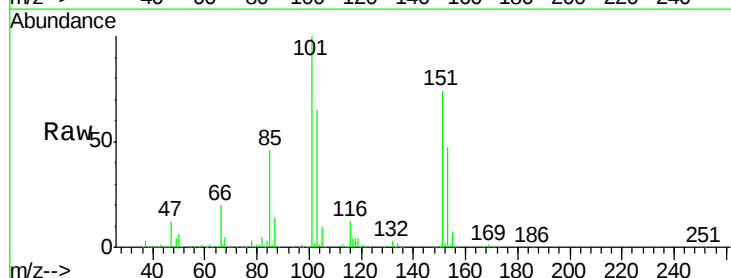
Instrument :
 MSVOA_L
 ClientSampleId :

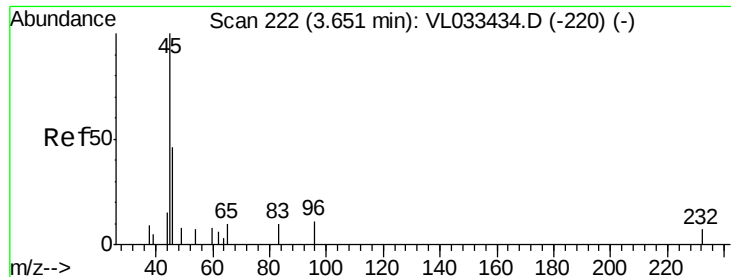
Tot Ion:101 Resp: 1552291
 Ion Ratio Lower Upper
 101 100
 103 64.9 51.3 76.9



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 9.65 ppbv
 RT: 4.55 min Scan# 502
 Delta R.T. -0.00 min
 Lab File: VL033496.D
 Acq: 29 Mar 2019 9:57

Tgt Ion:101 Resp: 1081728
 Ion Ratio Lower Upper
 101 100
 151 74.4 57.7 86.5





#13

Ethanol

Concen: 10.07 ppbv

RT: 3.64 min Scan# 220

Delta R.T. -0.01 min

Lab File: VL033496.D

Acq: 29 Mar 2019 9:57

Instrument :

MSVOA_L

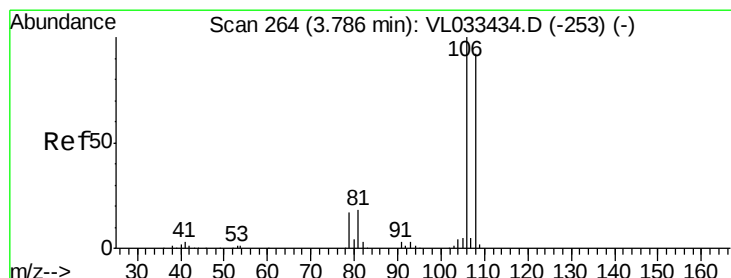
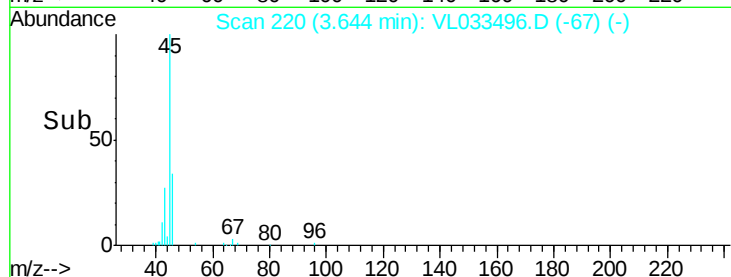
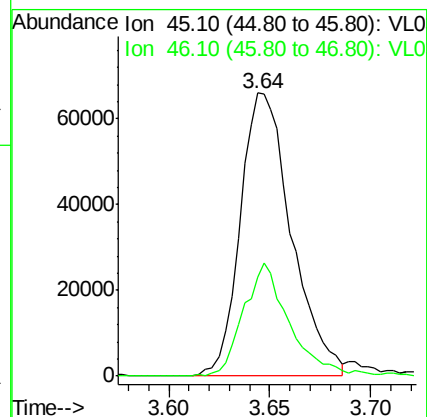
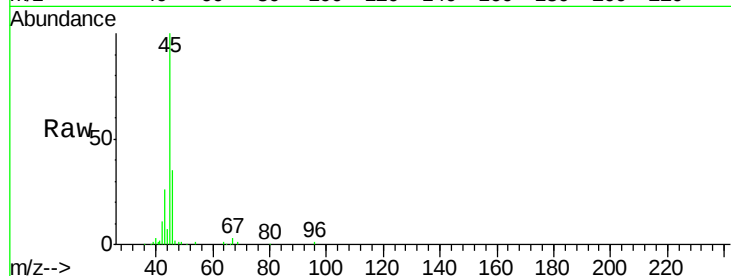
ClientSampleId :

Tot Ion: 45 Resp: 116946

Ion Ratio Lower Upper

45 100

46 36.8 25.4 101.8



#14

Bromoethene

Concen: 10.43 ppbv

RT: 3.79 min Scan# 264

Delta R.T. -0.00 min

Lab File: VL033496.D

Acq: 29 Mar 2019 9:57

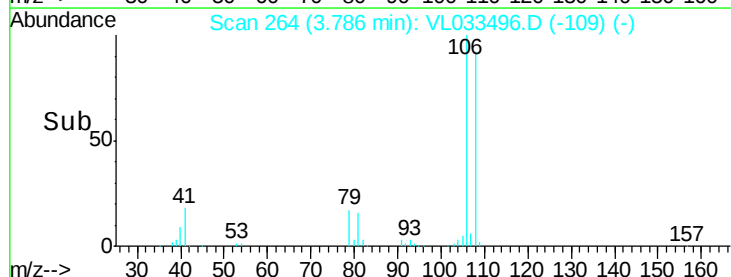
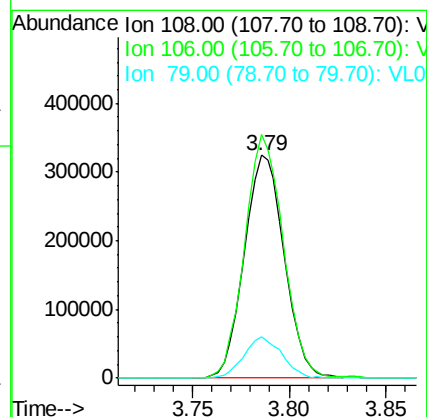
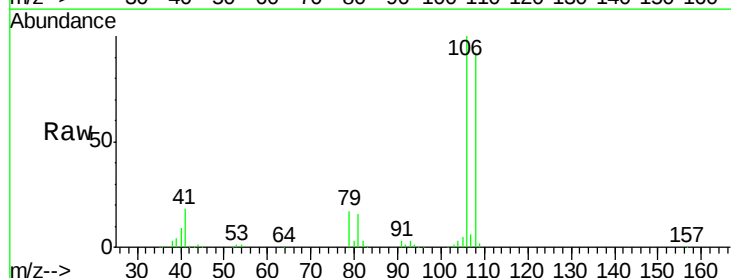
Tgt Ion: 108 Resp: 466008

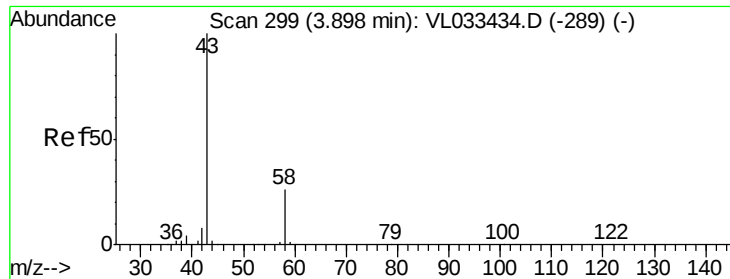
Ion Ratio Lower Upper

108 100

106 106.5 86.4 129.6

79 17.8 15.8 23.8





#15

Acetone

Concen: 8.97 ppbv

RT: 3.90 min Scan# 299

Delta R.T. -0.00 min

Lab File: VL033496.D

Acq: 29 Mar 2019 9:57

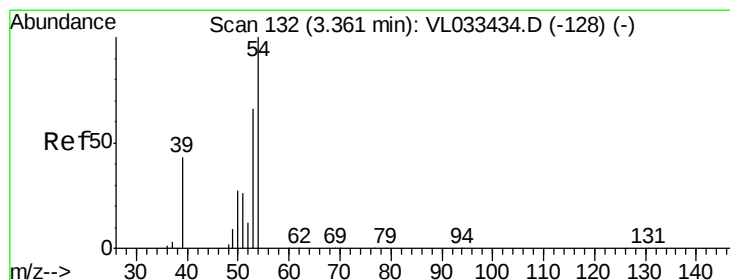
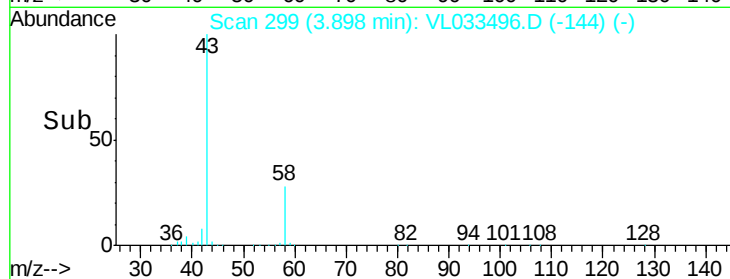
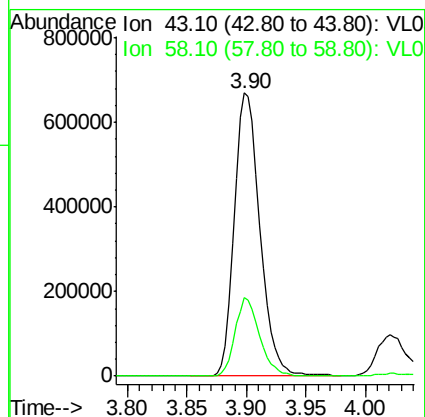
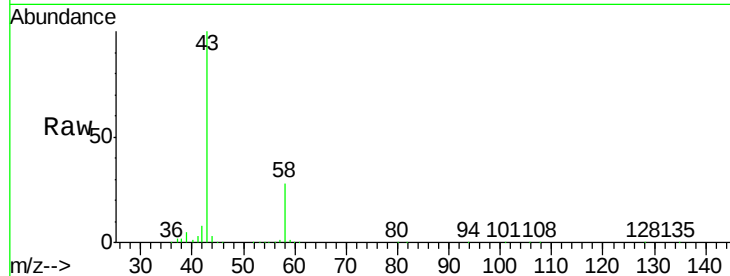
Instrument :
MSVOA_L
ClientSampleId :

Tot Ion: 43 Resp: 1000694

Ion Ratio Lower Upper

43 100

58 26.5 20.5 30.7



#16

1,3-Butadiene

Concen: 11.34 ppbv

RT: 3.36 min Scan# 132

Delta R.T. -0.00 min

Lab File: VL033496.D

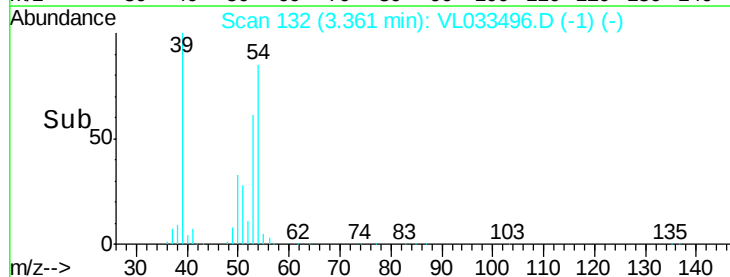
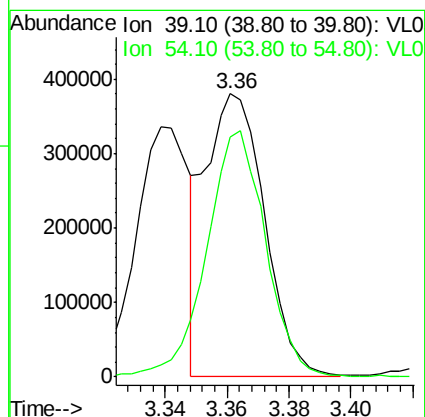
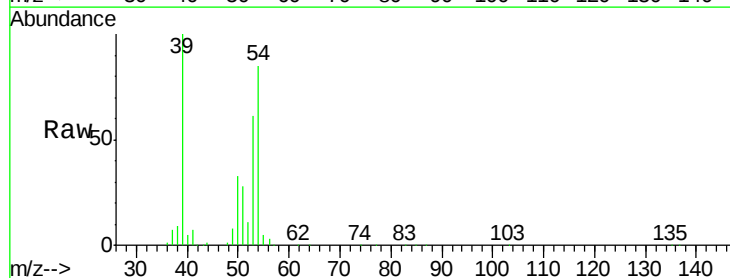
Acq: 29 Mar 2019 9:57

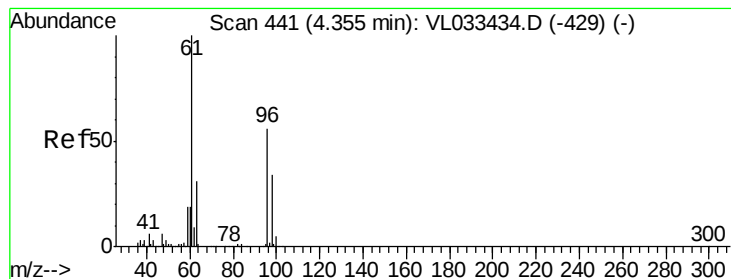
Tgt Ion: 39 Resp: 502054

Ion Ratio Lower Upper

39 100

54 87.9 69.4 104.2





#17

tert-Butyl alcohol

Concen: 9.87 ppbv

RT: 4.36 min Scan# 442

Delta R.T. 0.00 min

Lab File: VL033496.D

Acq: 29 Mar 2019 9:57

Instrument :

MSVOA_L

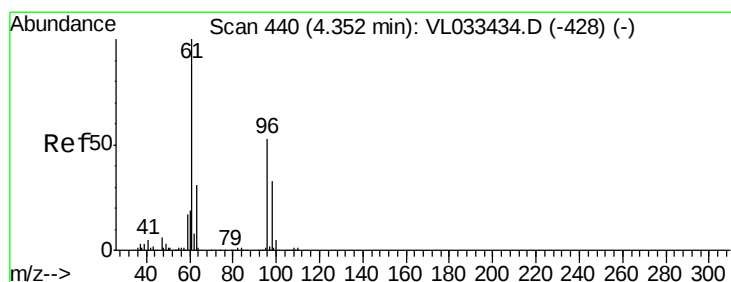
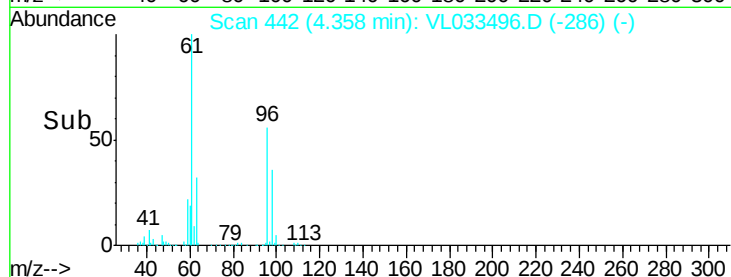
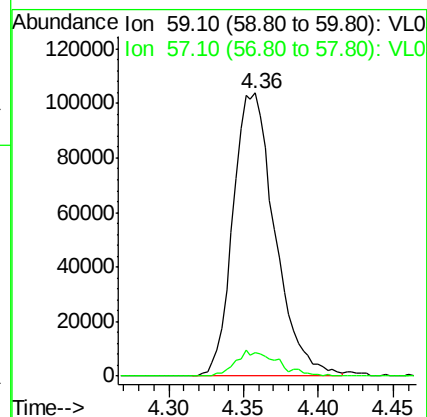
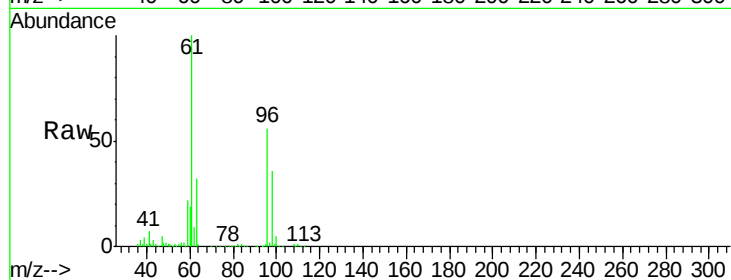
ClientSampled :

Tot Ion: 59 Resp: 202479

Ion Ratio Lower Upper

59 100

57 9.1 7.8 11.8



#18

1,1-Dichloroethene

Concen: 10.35 ppbv

RT: 4.35 min Scan# 440

Delta R.T. -0.00 min

Lab File: VL033496.D

Acq: 29 Mar 2019 9:57

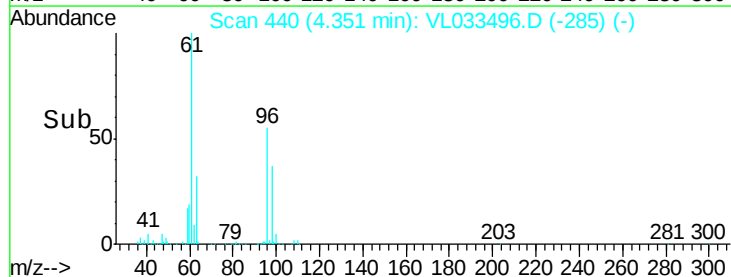
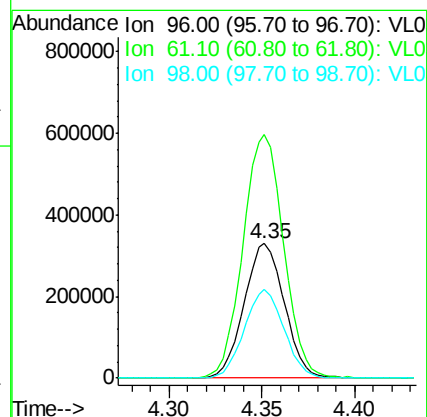
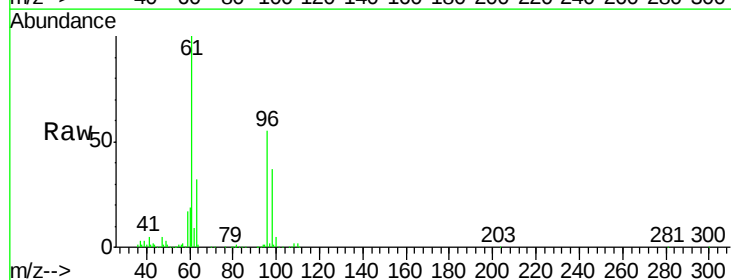
Tgt Ion: 96 Resp: 498200

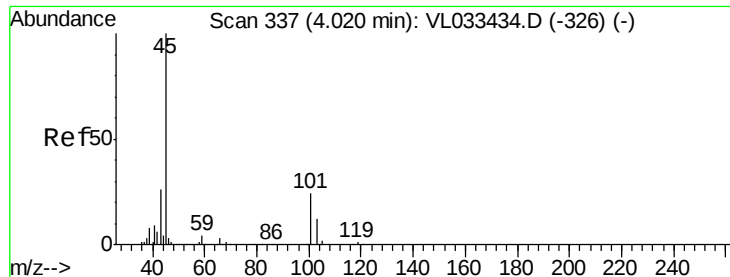
Ion Ratio Lower Upper

96 100

61 181.0 149.8 224.6

98 66.2 48.7 73.1





#19

Isopropyl Alcohol

Concen: 9.56 ppbv

RT: 4.02 min Scan# 337

Delta R.T. -0.00 min

Lab File: VL033496.D

Acq: 29 Mar 2019 9:57

Instrument :

MSVOA_L

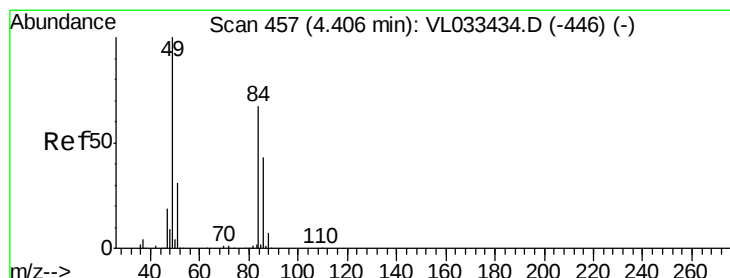
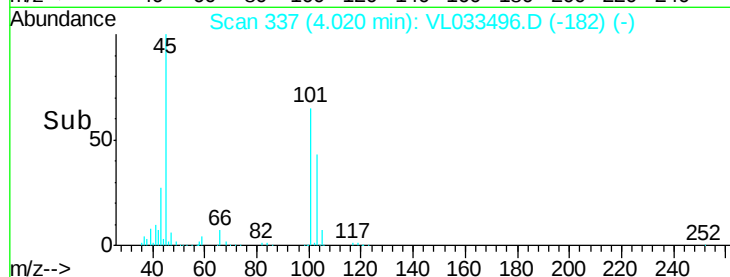
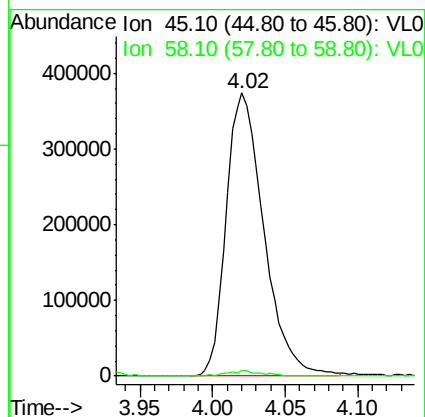
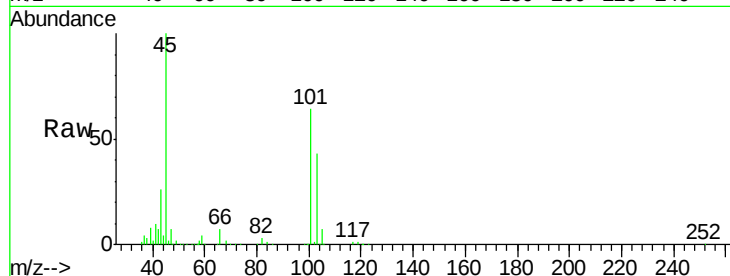
ClientSampleId :

Tot Ion: 45 Resp: 675020

Ion Ratio Lower Upper

45 100

58 2.2 1.4 2.2#



#20

Methylene Chloride

Concen: 9.18 ppbv

RT: 4.41 min Scan# 457

Delta R.T. -0.00 min

Lab File: VL033496.D

Acq: 29 Mar 2019 9:57

Tgt Ion: 84 Resp: 434840

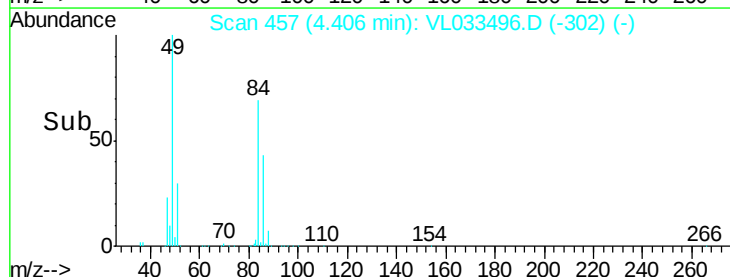
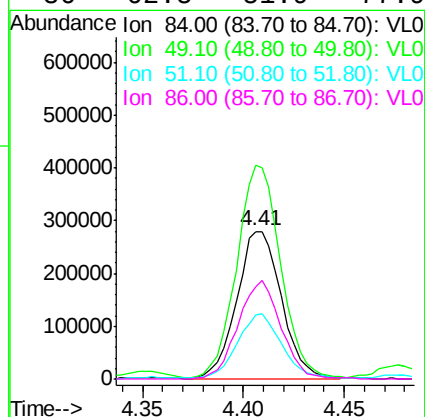
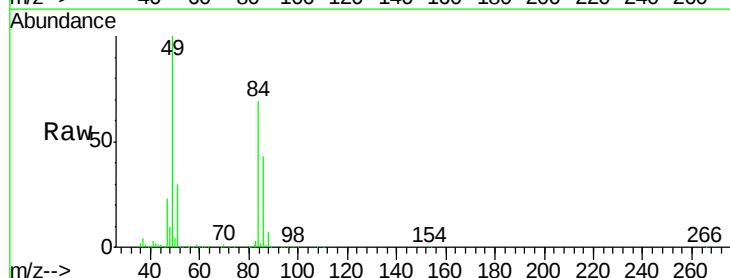
Ion Ratio Lower Upper

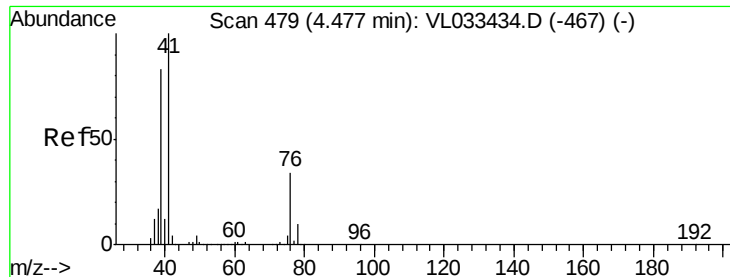
84 100

49 144.1 120.0 180.0

51 42.6 36.7 55.1

86 62.5 51.9 77.9

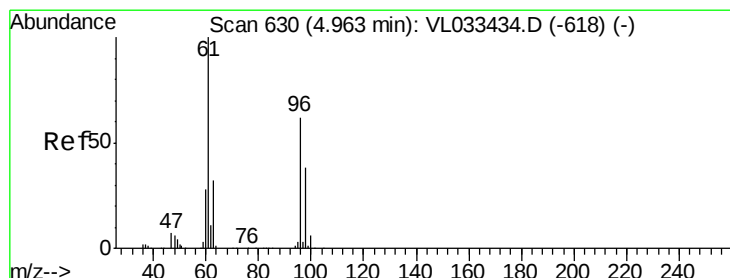
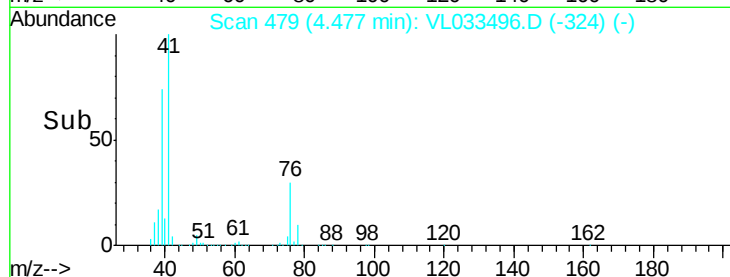
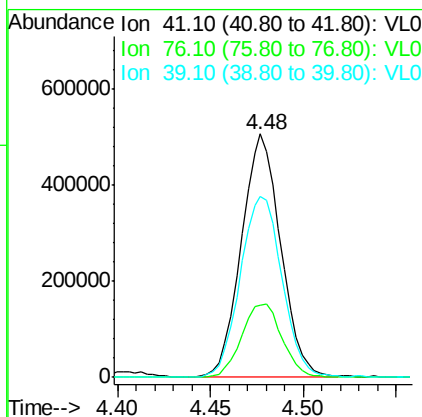
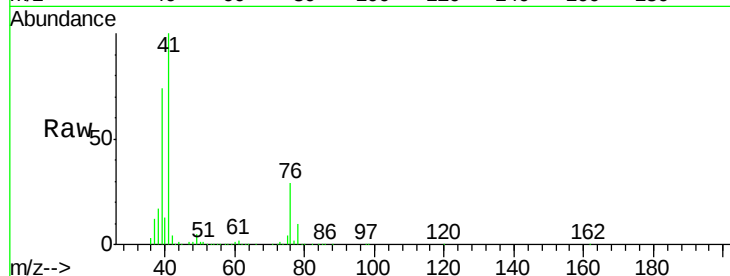




#21
Allvl Chloride
Concen: 10.52 ppbv
RT: 4.48 min Scan# 479
Delta R.T. -0.00 min
Lab File: VL033496.D
Acq: 29 Mar 2019 9:57

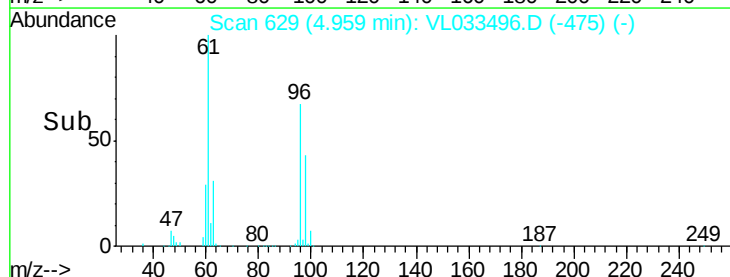
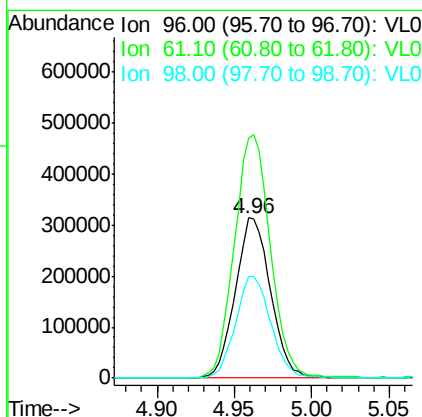
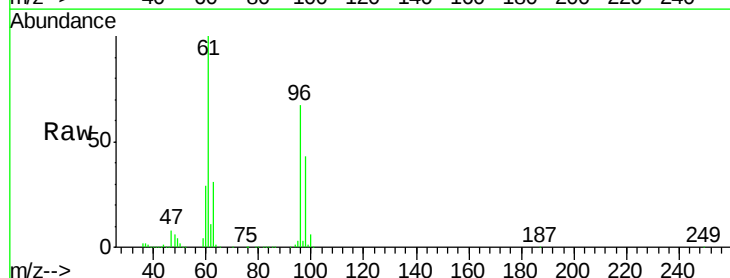
Instrument :
MSVOA_L
ClientSampleId :

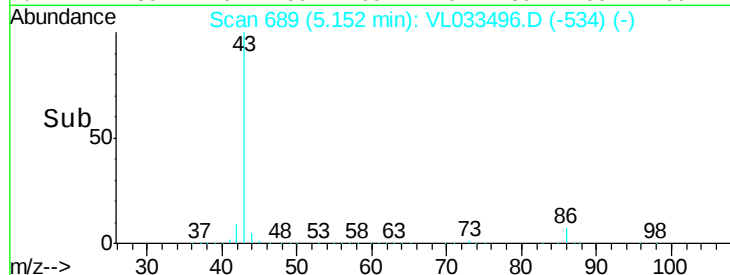
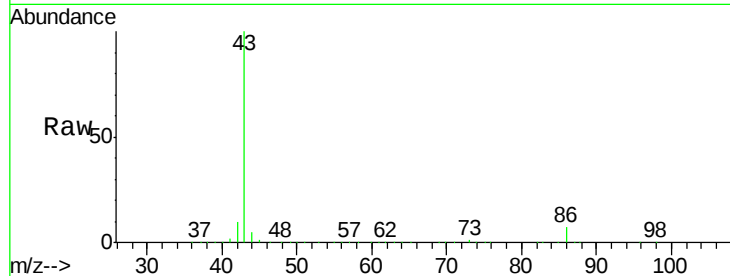
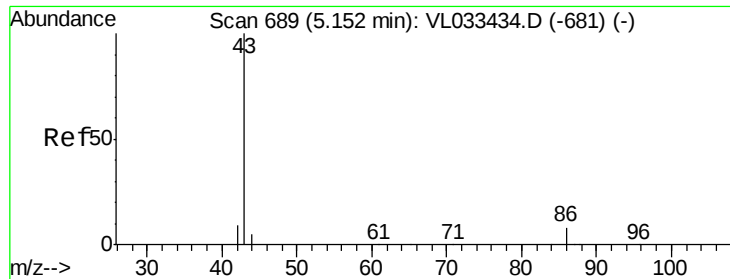
Tot Ion: 41 Resp: 742147
Ion Ratio Lower Upper
41 100
76 31.3 25.4 38.2
39 79.1 65.3 97.9



#22
trans-1,2-Dichloroethene
Concen: 9.89 ppbv
RT: 4.96 min Scan# 629
Delta R.T. -0.00 min
Lab File: VL033496.D
Acq: 29 Mar 2019 9:57

Tgt Ion: 96 Resp: 496906
Ion Ratio Lower Upper
96 100
61 150.0 128.9 193.3
98 63.8 49.5 74.3





#23

Vinyl Acetate

Concen: 10.83 ppbv

RT: 5.15 min Scan# 689

Delta R.T. -0.00 min

Lab File: VL033496.D

Acq: 29 Mar 2019 9:57

Instrument :

MSVOA_L

ClientSampleId :

Tot Ion: 43 Resp: 1720218

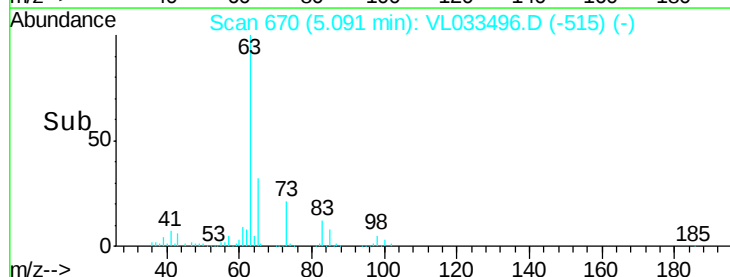
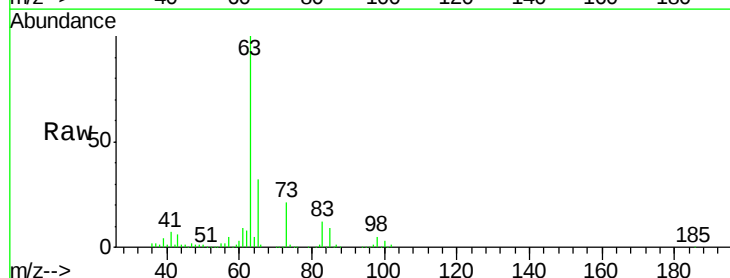
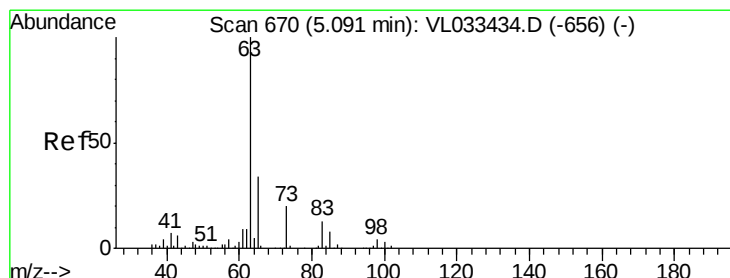
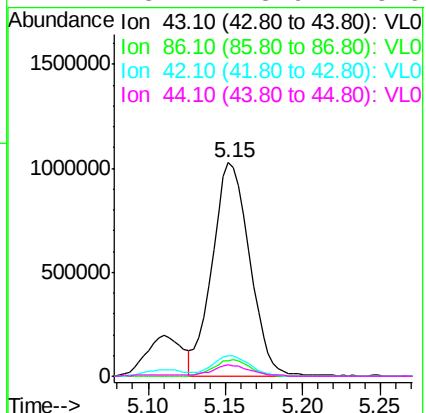
Ion Ratio Lower Upper

43 100

86 7.4 5.6 8.4

42 9.5 8.0 12.0

44 5.1 3.9 5.9



#24

1,1-Dichloroethane

Concen: 9.78 ppbv

RT: 5.09 min Scan# 670

Delta R.T. -0.00 min

Lab File: VL033496.D

Acq: 29 Mar 2019 9:57

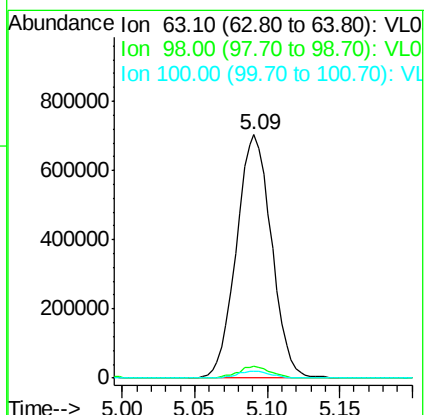
Tgt Ion: 63 Resp: 1180630

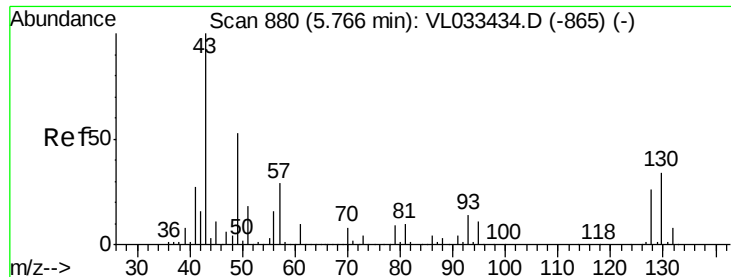
Ion Ratio Lower Upper

63 100

98 4.9 2.2 6.6

100 2.7 1.5 4.4





#25

Ethyl Acetate

Concen: 10.14 ppbv

RT: 5.77 min Scan# 880

Delta R.T. -0.00 min

Lab File: VL033496.D

Acq: 29 Mar 2019 9:57

Instrument :
MSVOA_L
ClientSampleId :

Tot Ion: 43 Resp: 2099703

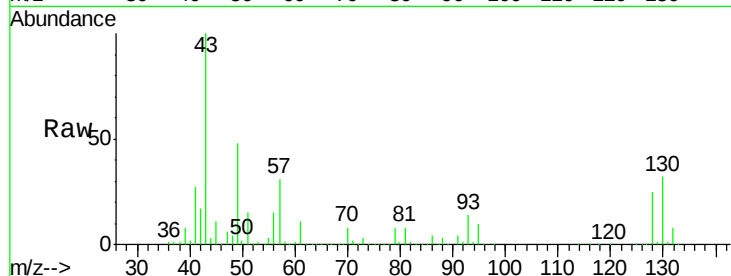
Ion	Ratio	Lower	Upper
43	100		
45	9.9	7.8	11.6
61	9.5	7.3	10.9
70	7.1	5.6	8.4

43 100

45 9.9 7.8 11.6

61 9.5 7.3 10.9

70 7.1 5.6 8.4



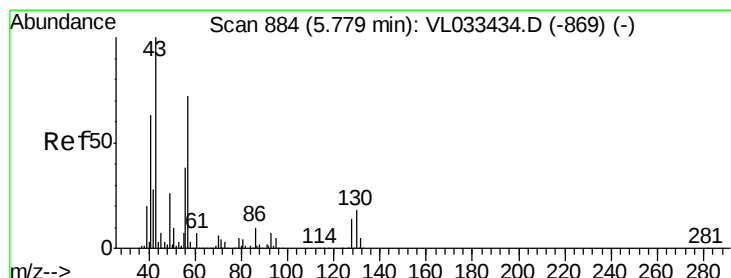
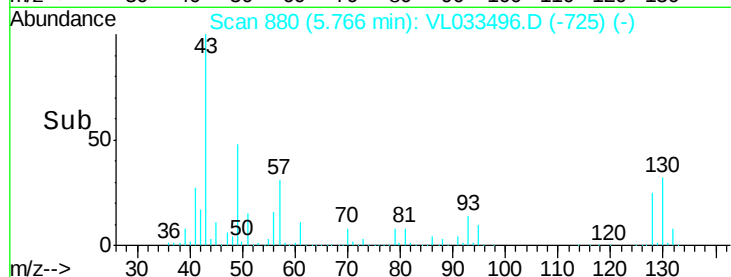
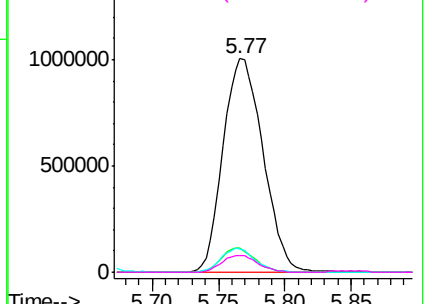
Abundance

Ion 43.10 (42.80 to 43.80): VL0

Ion 45.10 (44.80 to 45.80): VL0

Ion 61.10 (60.80 to 61.80): VL0

Ion 70.10 (69.80 to 70.80): VL0



#26

Hexane

Concen: 10.30 ppbv

RT: 5.78 min Scan# 884

Delta R.T. -0.00 min

Lab File: VL033496.D

Acq: 29 Mar 2019 9:57

Tgt Ion: 57 Resp: 948899

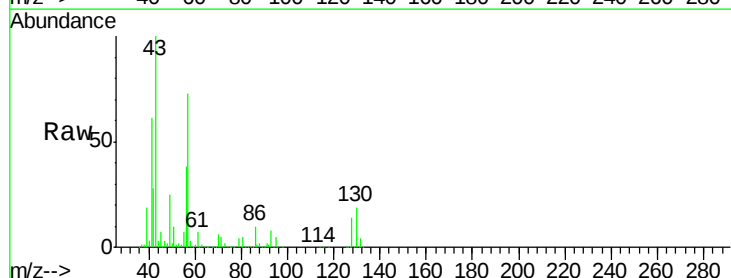
Ion	Ratio	Lower	Upper
57	100		
41	86.3	70.7	106.1
43	222.4	182.6	274.0
56	51.8	42.0	63.0

57 100

41 86.3 70.7 106.1

43 222.4 182.6 274.0

56 51.8 42.0 63.0



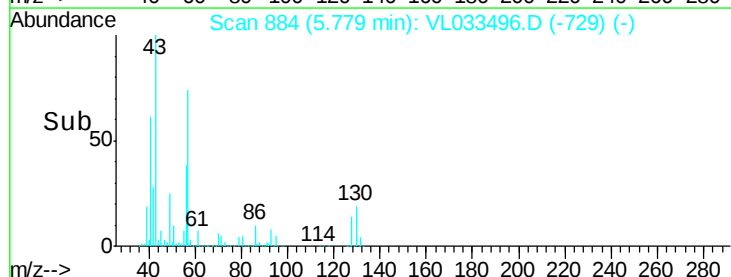
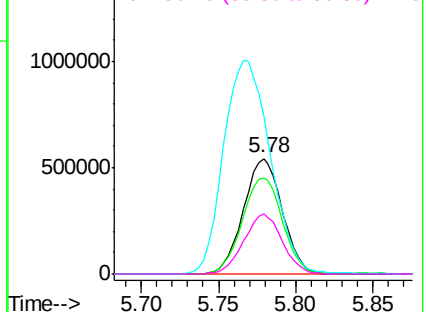
Abundance

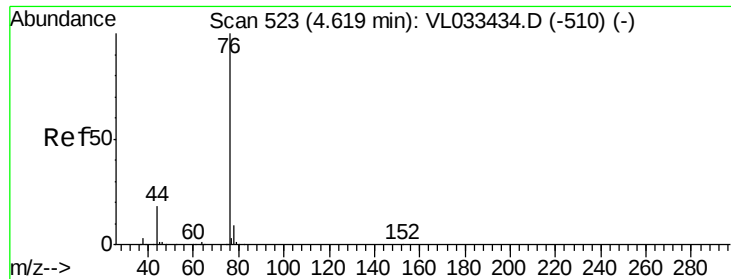
Ion 57.10 (56.80 to 57.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 43.10 (42.80 to 43.80): VL0

Ion 56.10 (55.80 to 56.80): VL0





#27

Carbon Disulfide

Concen: 10.69 ppbv

RT: 4.62 min Scan# 523

Delta R.T. -0.00 min

Lab File: VL033496.D

Acq: 29 Mar 2019 9:57

Instrument :

MSVOA_L

ClientSampleId :

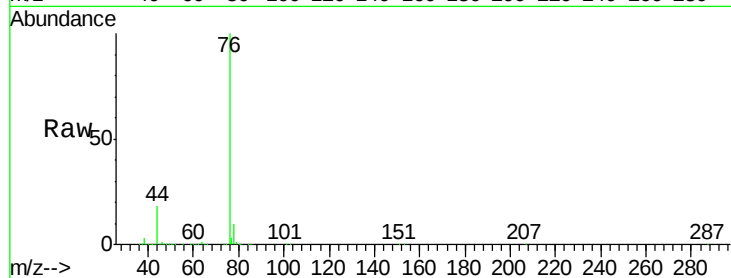
Tot Ion: 76 Resp: 1171007

Ion Ratio Lower Upper

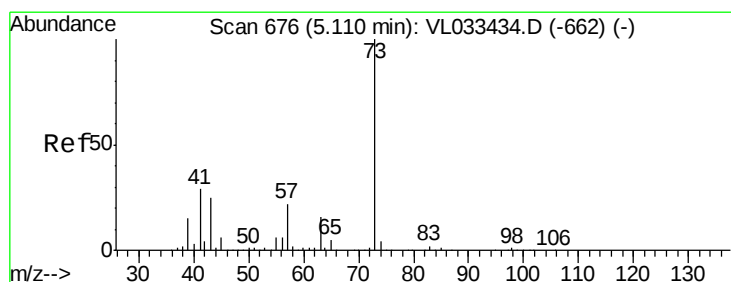
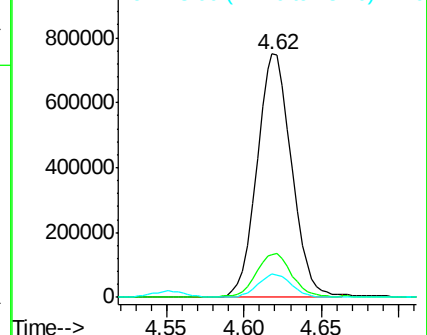
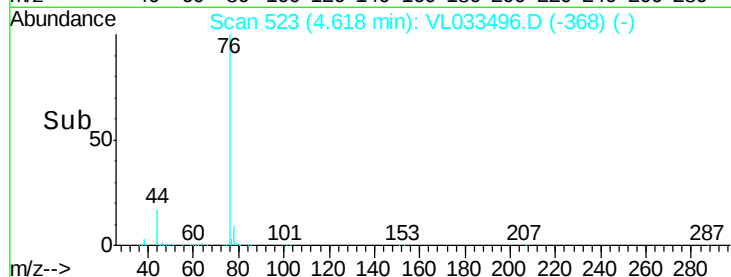
76 100

44 18.3 14.8 22.2

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: 10.57 ppbv

RT: 5.11 min Scan# 676

Delta R.T. -0.00 min

Lab File: VL033496.D

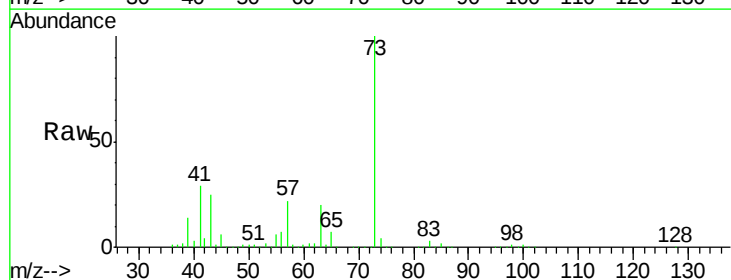
Acq: 29 Mar 2019 9:57

Tgt Ion: 73 Resp: 1402386

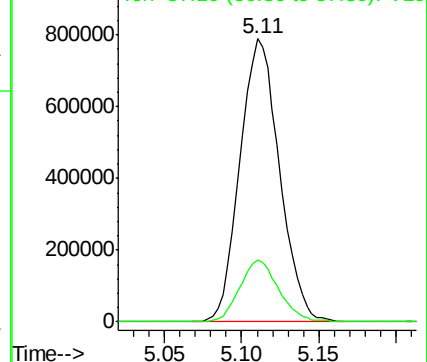
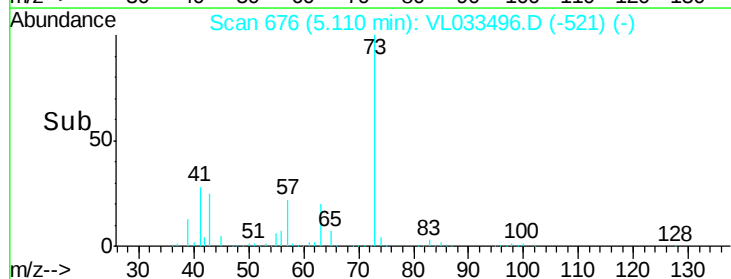
Ion Ratio Lower Upper

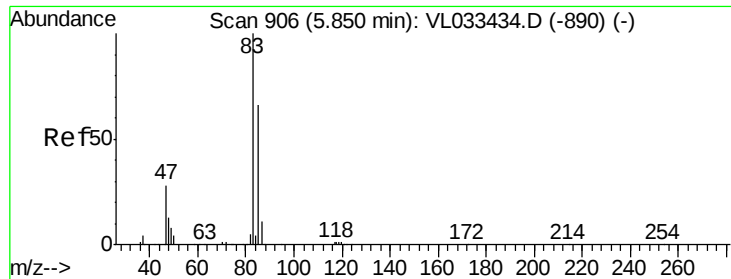
73 100

57 21.6 17.4 26.2



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

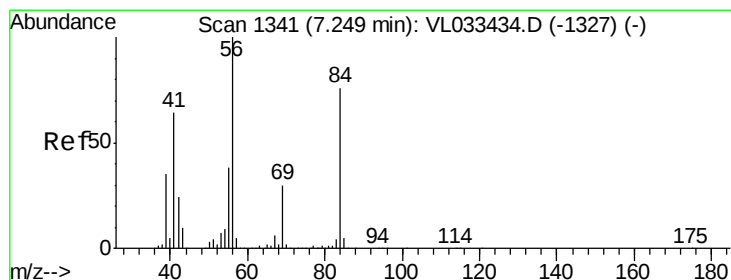
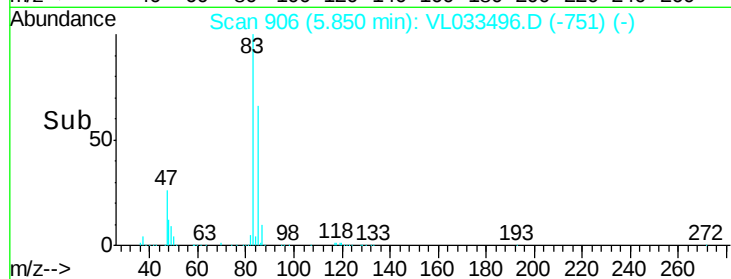
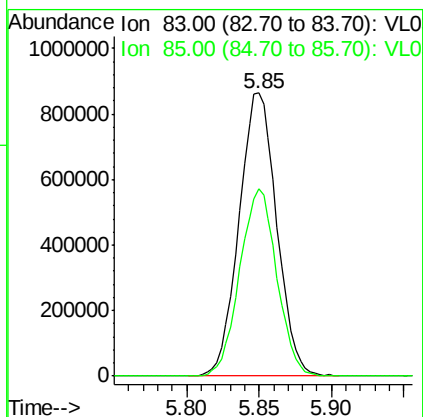
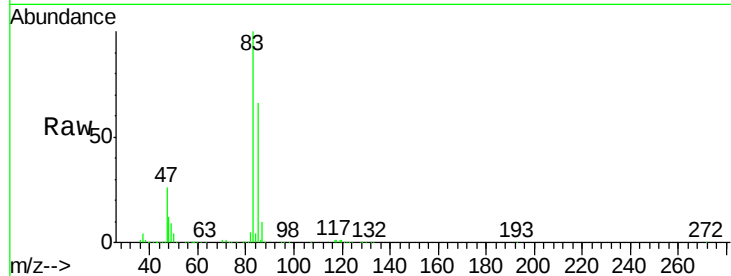




#29
Chloroform
Concen: 9.87 ppbv
RT: 5.85 min Scan# 906
Delta R.T. -0.00 min
Lab File: VL033496.D
Acq: 29 Mar 2019 9:57

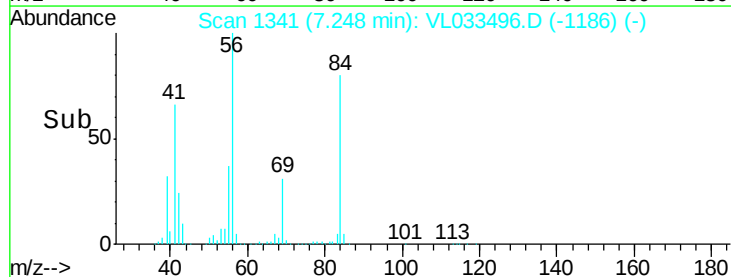
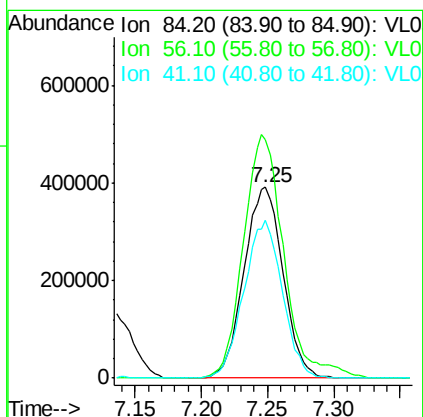
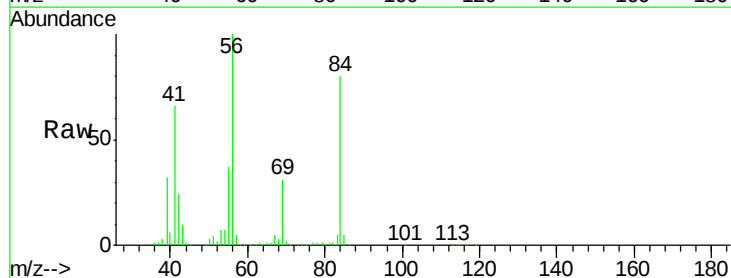
Instrument :
MSVOA_L
ClientSampleId :

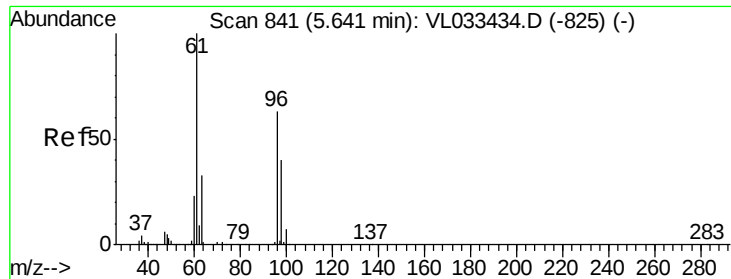
Tot Ion: 83 Resp: 1558317
Ion Ratio Lower Upper
83 100
85 66.1 52.6 79.0



#30
Cyclohexane
Concen: 10.97 ppbv
RT: 7.25 min Scan# 1341
Delta R.T. -0.00 min
Lab File: VL033496.D
Acq: 29 Mar 2019 9:57

Tgt Ion: 84 Resp: 799080
Ion Ratio Lower Upper
84 100
56 132.8 109.7 164.5
41 81.7 68.2 102.2



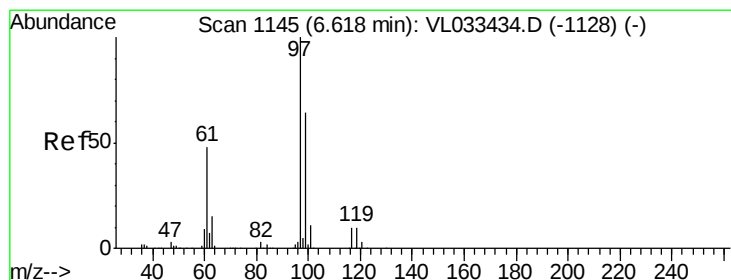
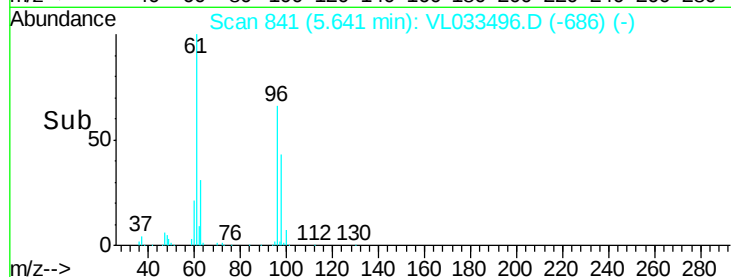
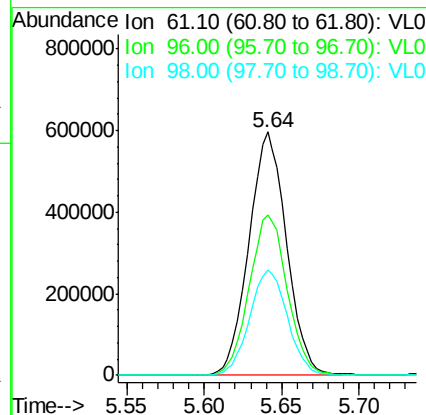
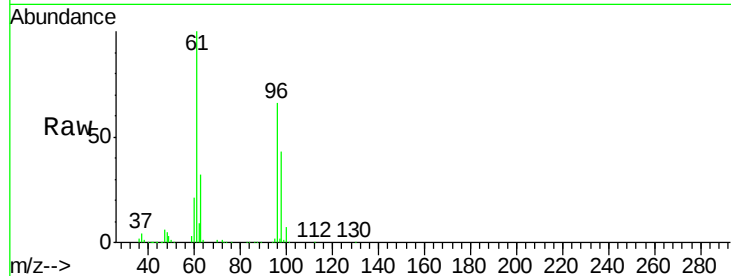


#31

cis-1,2-Dichloroethene
 Concen: 11.03 ppbv
 RT: 5.64 min Scan# 841
 Delta R.T. -0.00 min
 Lab File: VL033496.D
 Acq: 29 Mar 2019 9:57

Instrument :
 MSVOA_L
 ClientSampleId :

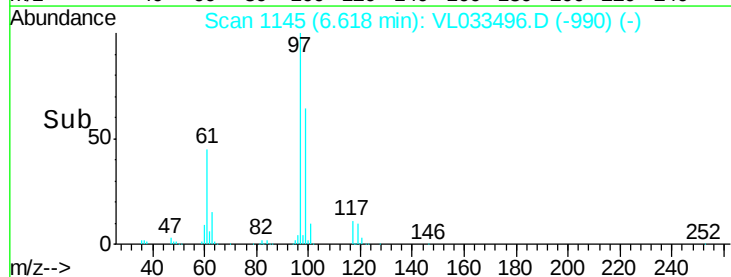
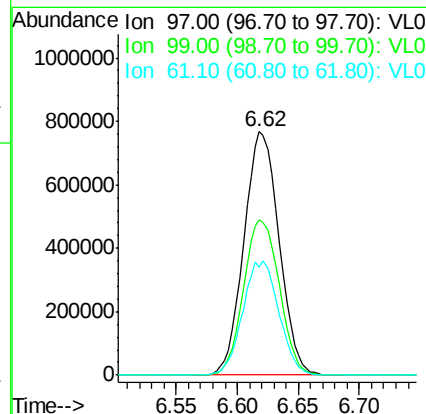
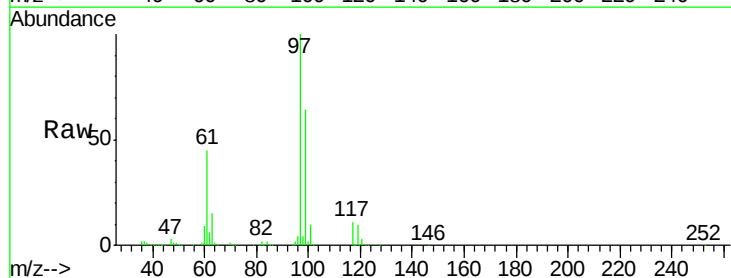
Tot Ion: 61 Resp: 1010080
 Ion Ratio Lower Upper
 61 100
 96 65.9 50.6 76.0
 98 43.5 32.2 48.2

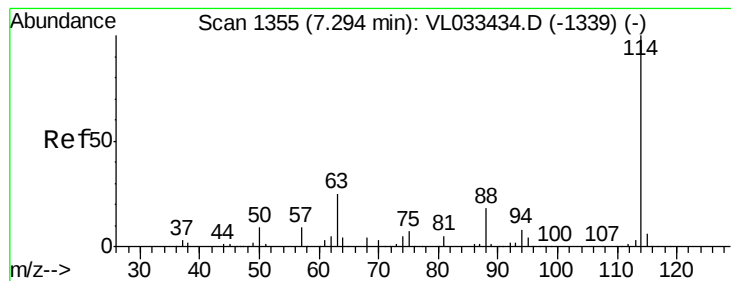


#32

1,1,1-Trichloroethane
 Concen: 10.15 ppbv
 RT: 6.62 min Scan# 1145
 Delta R.T. -0.00 min
 Lab File: VL033496.D
 Acq: 29 Mar 2019 9:57

Tgt Ion: 97 Resp: 1525128
 Ion Ratio Lower Upper
 97 100
 99 65.0 51.5 77.3
 61 48.2 38.8 58.2





#33

1,4-Difluorobenzene

Concen: 10.00 ppbv

RT: 7.29 min Scan# 1355

Delta R.T. -0.00 min

Lab File: VL033496.D

Acq: 29 Mar 2019 9:57

Instrument :

MSVOA_L

ClientSampleId :

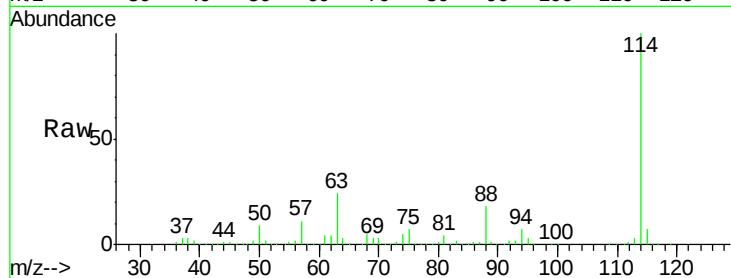
Tot Ion:114 Resp: 2259651

Ion Ratio Lower Upper

114 100

63 25.1 21.5 32.3

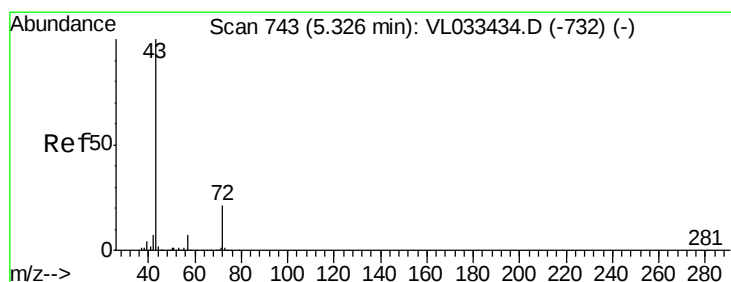
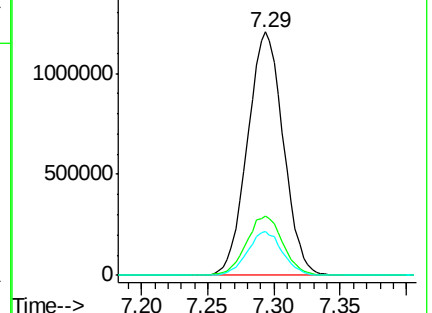
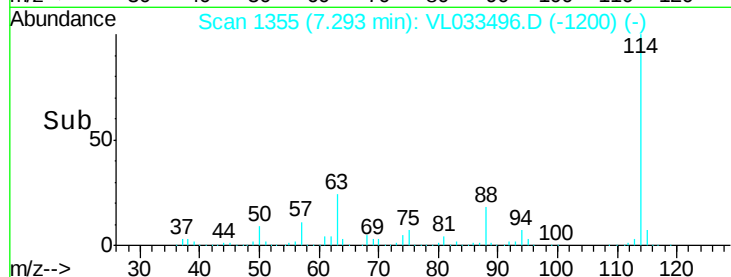
88 17.7 14.5 21.7



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: 9.99 ppbv

RT: 5.33 min Scan# 743

Delta R.T. -0.00 min

Lab File: VL033496.D

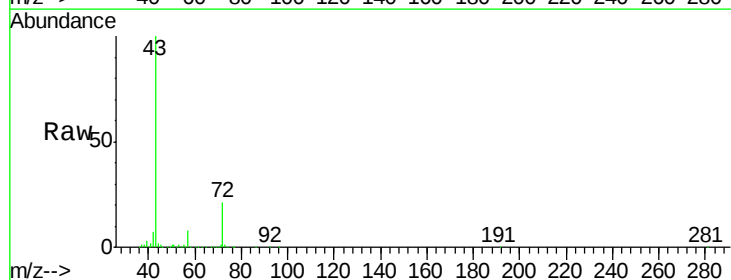
Acq: 29 Mar 2019 9:57

Tgt Ion: 43 Resp: 1356632

Ion Ratio Lower Upper

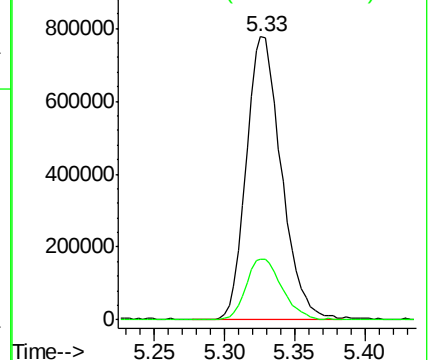
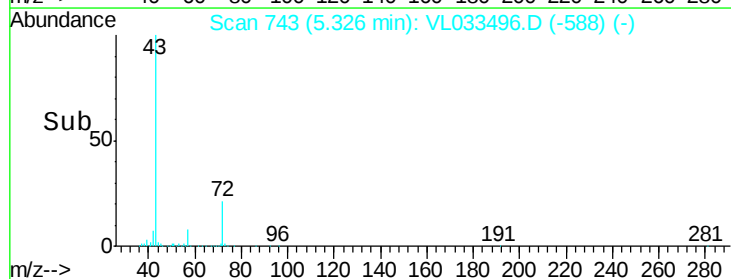
43 100

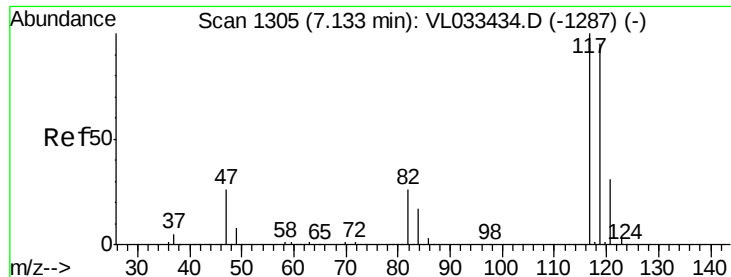
72 22.2 17.4 26.2



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 72.10 (71.80 to 72.80): VL0





#35

Carbon Tetrachloride

Concen: 9.87 ppbv

RT: 7.14 min Scan# 1306

Delta R.T. 0.00 min

Lab File: VL033496.D

Acq: 29 Mar 2019 9:57

Instrument :

MSVOA_L

ClientSampleId :

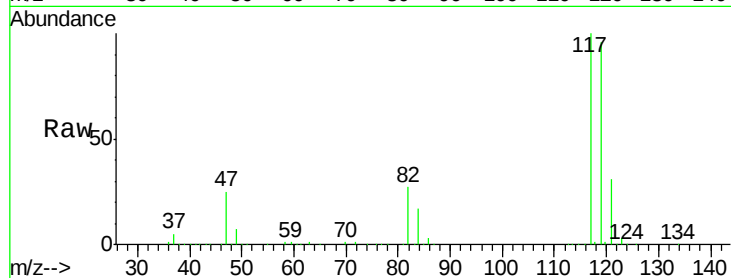
Tot Ion:117 Resp: 1579775

Ion Ratio Lower Upper

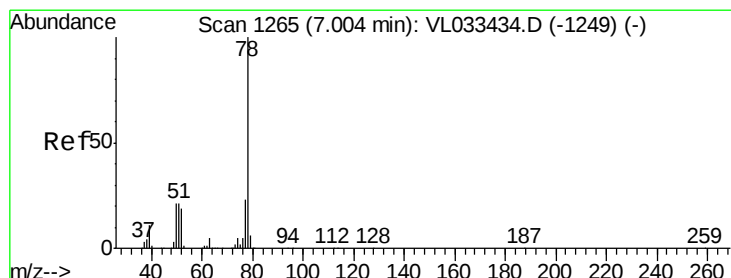
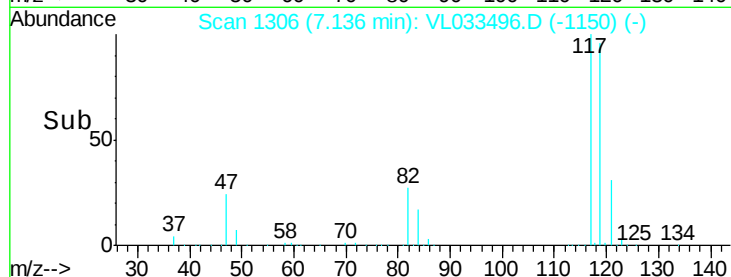
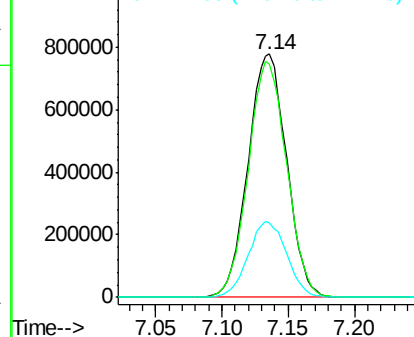
117 100

119 95.8 75.8 113.8

121 30.7 24.7 37.1



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: 10.51 ppbv

RT: 7.01 min Scan# 1266

Delta R.T. 0.00 min

Lab File: VL033496.D

Acq: 29 Mar 2019 9:57

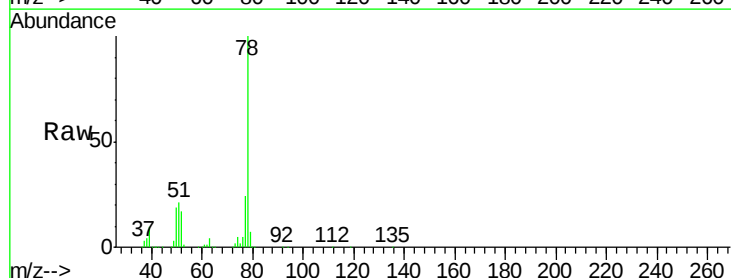
Tgt Ion: 78 Resp: 1992271

Ion Ratio Lower Upper

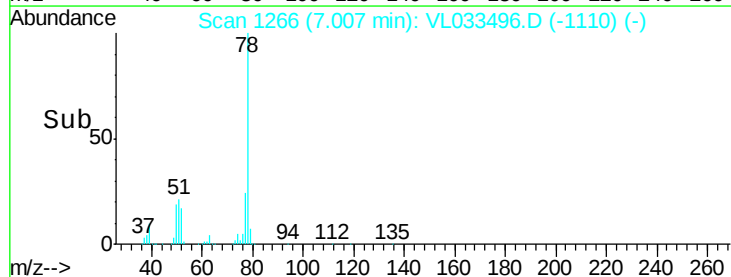
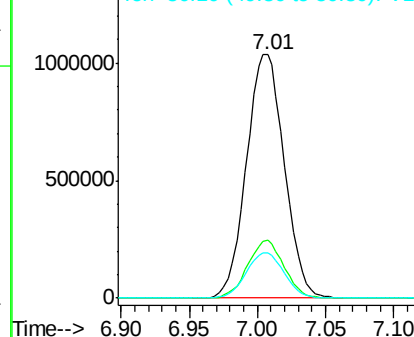
78 100

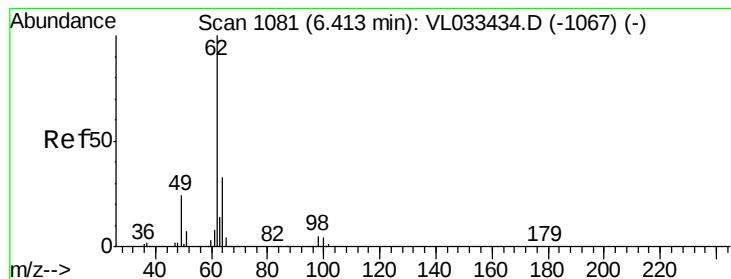
77 23.7 18.1 27.1

50 18.6 16.7 25.1



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: 9.30 ppbv

RT: 6.41 min Scan# 1081

Delta R.T. -0.00 min

Lab File: VL033496.D

Acq: 29 Mar 2019 9:57

Instrument :

MSVOA_L

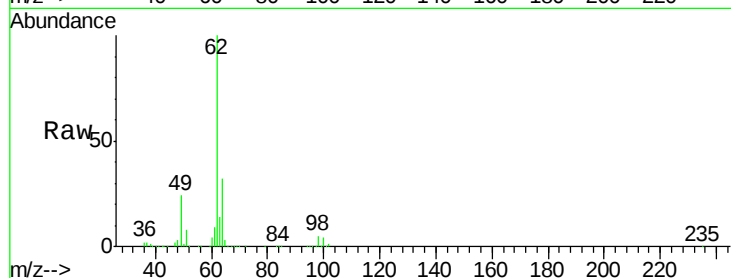
ClientSampleId :

Tot Ion: 62 Resp: 1182047

Ion Ratio Lower Upper

62 100

98 6.1 4.4 6.6



Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

6.41

600000

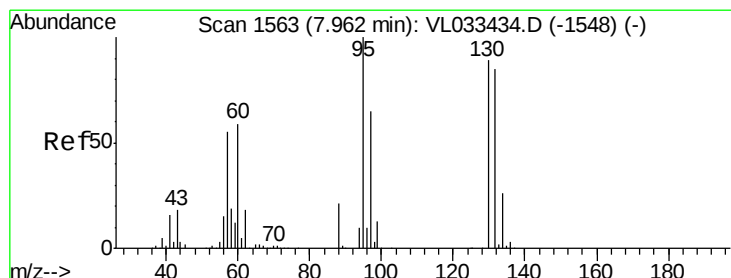
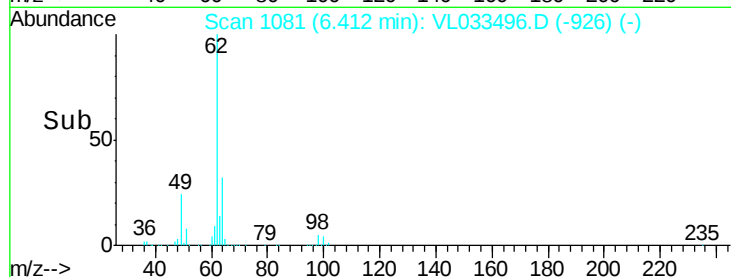
400000

200000

0

6.35 6.40 6.45

Time-->



#38

Trichloroethene

Concen: 11.29 ppbv

RT: 7.96 min Scan# 1563

Delta R.T. -0.00 min

Lab File: VL033496.D

Acq: 29 Mar 2019 9:57

Tgt Ion:130 Resp: 805555

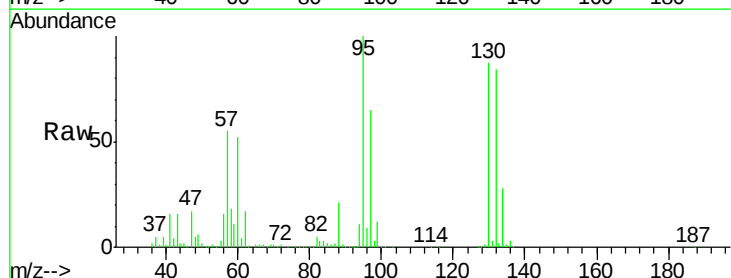
Ion Ratio Lower Upper

130 100

95 115.3 89.8 134.8

132 96.8 76.6 115.0

97 75.0 58.6 88.0



Abundance Ion 130.00 (129.70 to 130.70): V

Ion 95.00 (94.70 to 95.70): VL0

Ion 132.00 (131.70 to 132.70): V

Ion 97.00 (96.70 to 97.70): VL0

7.96

600000

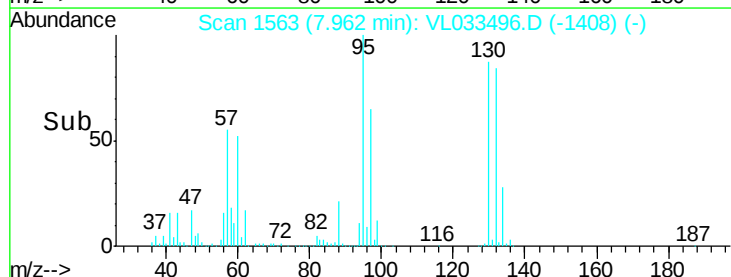
400000

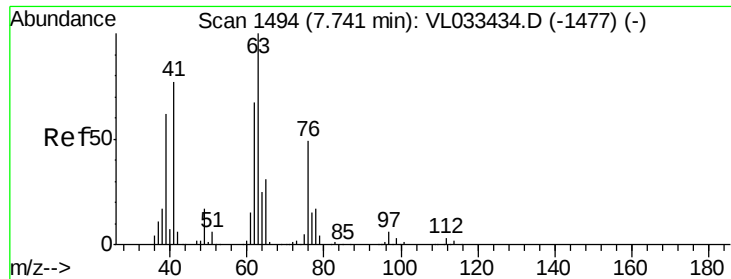
200000

0

7.90 8.00

Time-->

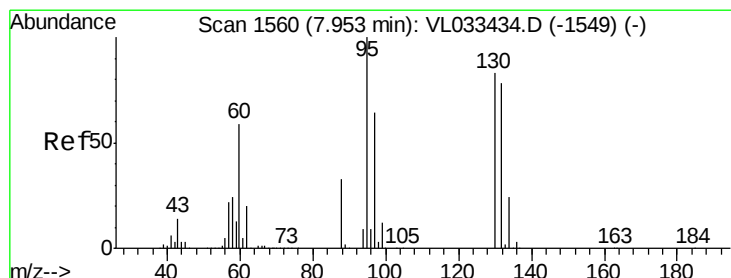
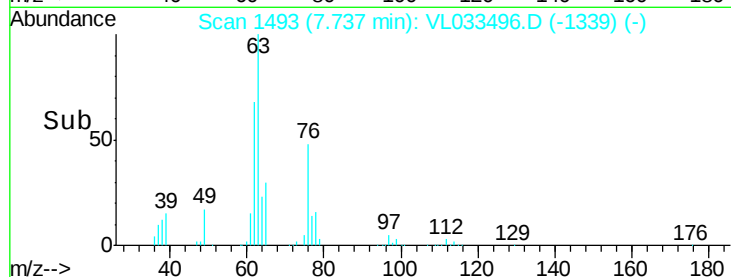
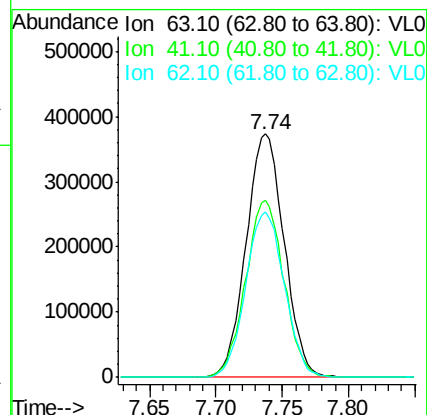
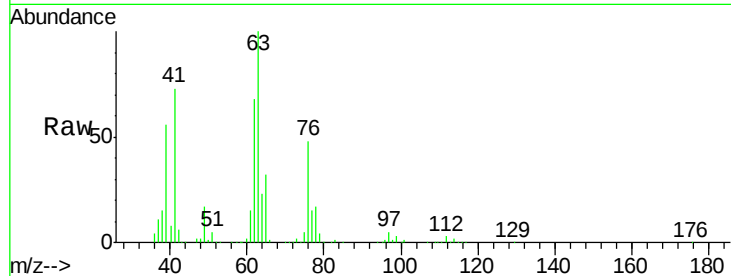




#39
 1,2-Dichloropropane
 Concen: 10.02 ppbv
 RT: 7.74 min Scan# 1493
 Delta R.T. -0.00 min
 Lab File: VL033496.D
 Acq: 29 Mar 2019 9:57

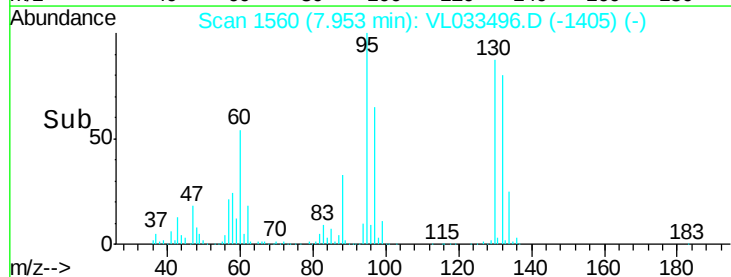
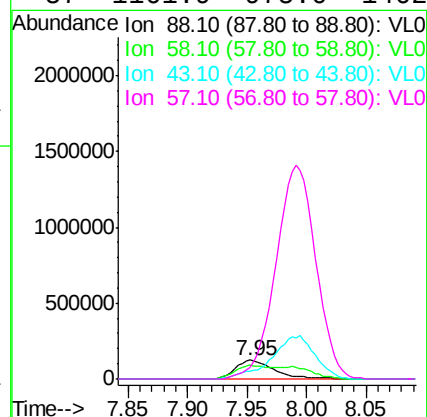
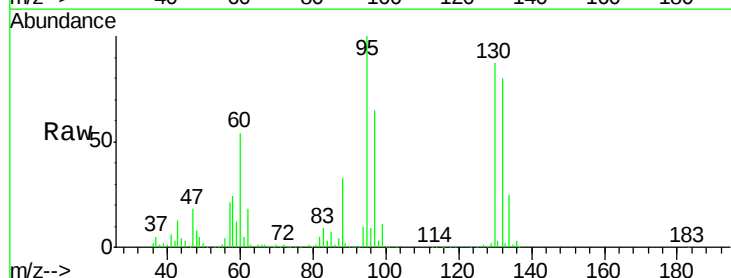
Instrument :
 MSVOA_L
 ClientSampleId :

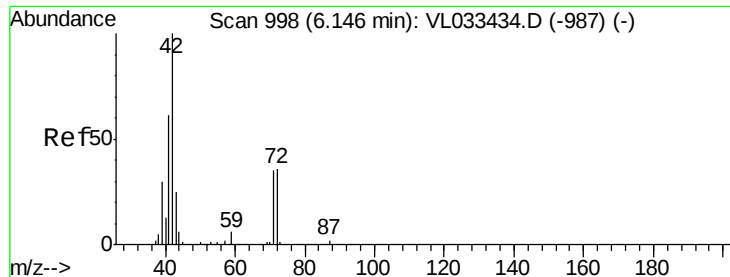
Tot Ion: 63 Resp: 744436
 Ion Ratio Lower Upper
 63 100
 41 72.9 61.2 91.8
 62 67.7 54.0 81.0



#40
 1,4-Dioxane
 Concen: 10.69 ppbv
 RT: 7.95 min Scan# 1560
 Delta R.T. -0.00 min
 Lab File: VL033496.D
 Acq: 29 Mar 2019 9:57

Tgt Ion: 88 Resp: 283275
 Ion Ratio Lower Upper
 88 100
 58 122.3 105.6 158.4
 43 254.7 216.7 325.1
 57 1161.9 975.0 1462.4





#41

Tetrahydrofuran

Concen: 10.58 ppbv

RT: 6.15 min Scan# 998

Delta R.T. -0.00 min

Lab File: VL033496.D

Acq: 29 Mar 2019 9:57

Instrument :

MSVOA_L

ClientSampled :

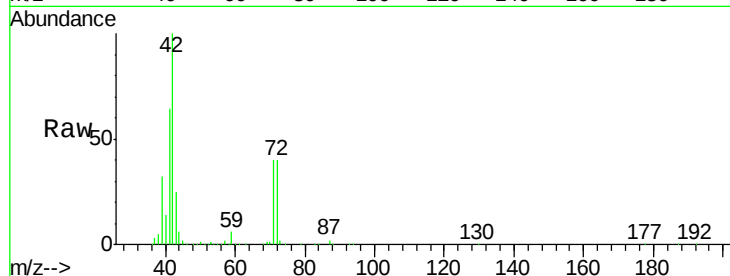
Tot Ion: 42 Resp: 789868

Ion Ratio Lower Upper

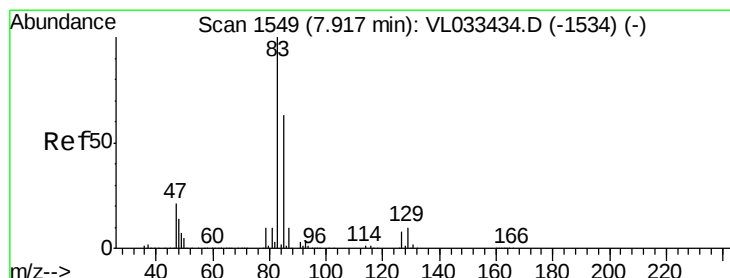
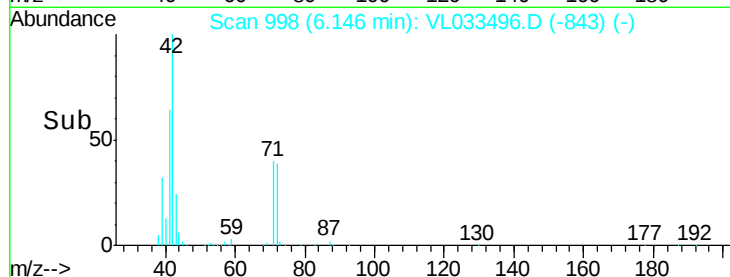
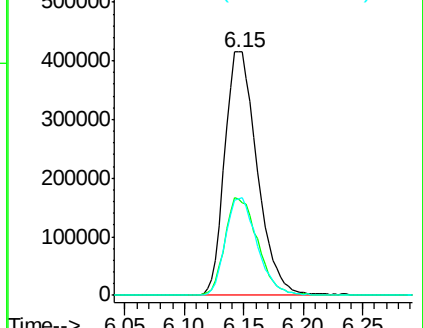
42 100

72 40.5 30.2 45.2

71 39.3 29.4 44.2



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: 9.89 ppbv

RT: 7.92 min Scan# 1549

Delta R.T. -0.00 min

Lab File: VL033496.D

Acq: 29 Mar 2019 9:57

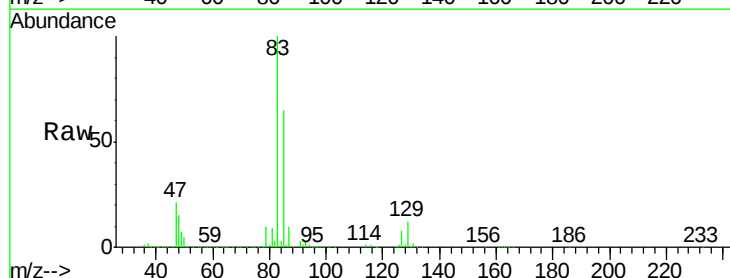
Tgt Ion: 83 Resp: 1711700

Ion Ratio Lower Upper

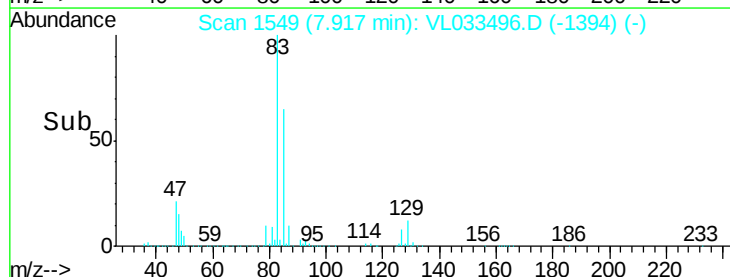
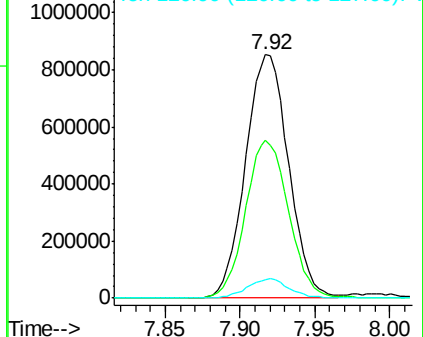
83 100

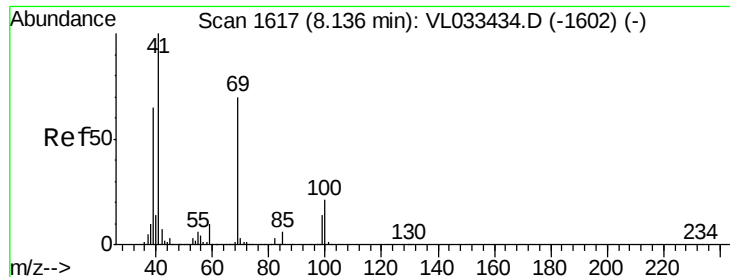
85 65.1 50.7 76.1

127 7.7 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

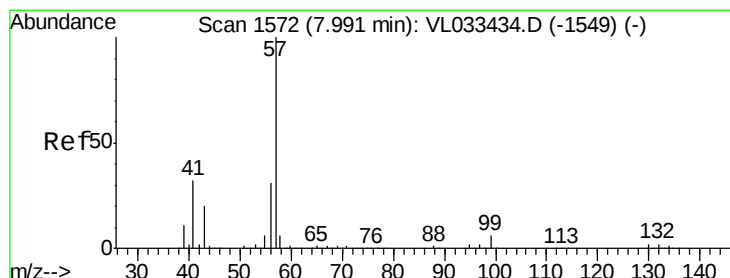
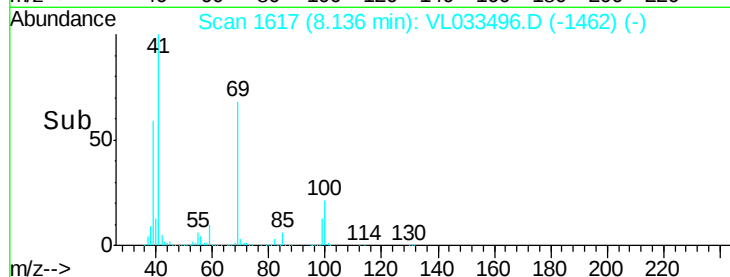
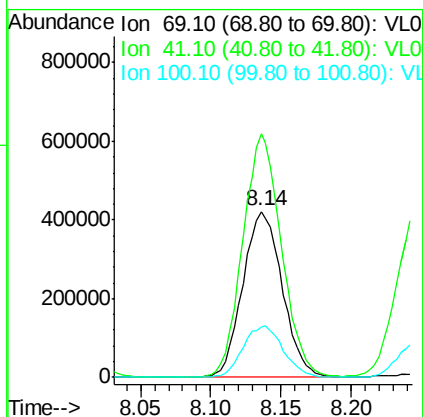
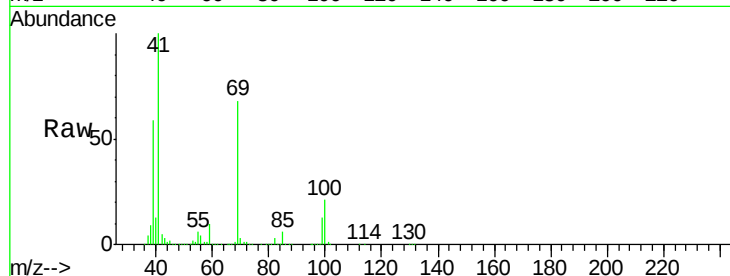




#43
Methyl Methacrylate
Concen: 10.75 ppbv
RT: 8.14 min Scan# 1617
Delta R.T. -0.00 min
Lab File: VL033496.D
Acq: 29 Mar 2019 9:57

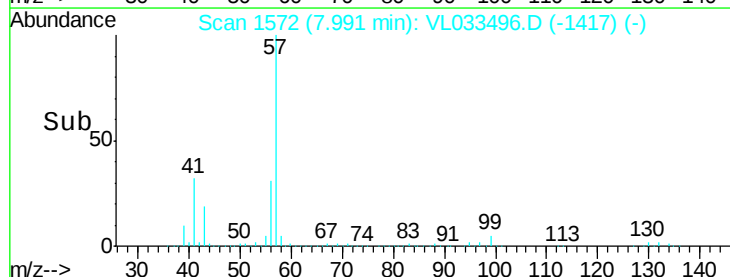
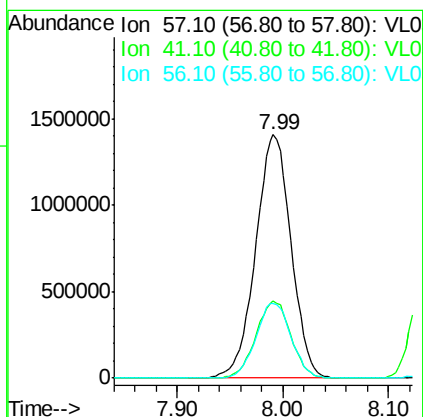
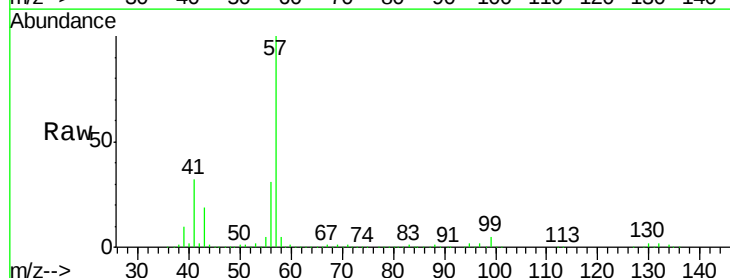
Instrument :
MSVOA_L
ClientSampled :

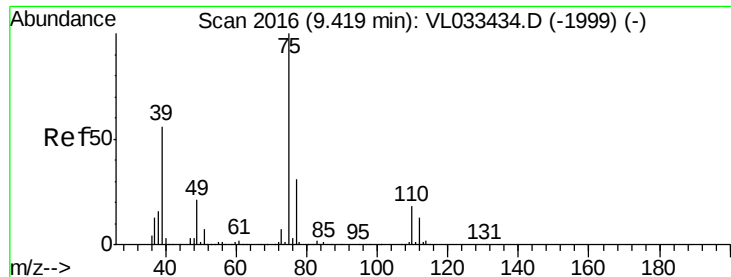
Tot Ion: 69 Resp: 827748
Ion Ratio Lower Upper
69 100
41 143.3 116.6 174.8
100 31.7 24.4 36.6



#44
2,2,4-Trimethylpentane
Concen: 9.92 ppbv
RT: 7.99 min Scan# 1572
Delta R.T. -0.00 min
Lab File: VL033496.D
Acq: 29 Mar 2019 9:57

Tgt Ion: 57 Resp: 3287673
Ion Ratio Lower Upper
57 100
41 31.5 26.0 39.0
56 30.6 24.6 37.0





#45

t-1,3-Dichloropropene

Concen: 11.84 ppbv

RT: 9.42 min Scan# 2015

Delta R.T. -0.00 min

Lab File: VL033496.D

Acq: 29 Mar 2019 9:57

Instrument :

MSVOA_L

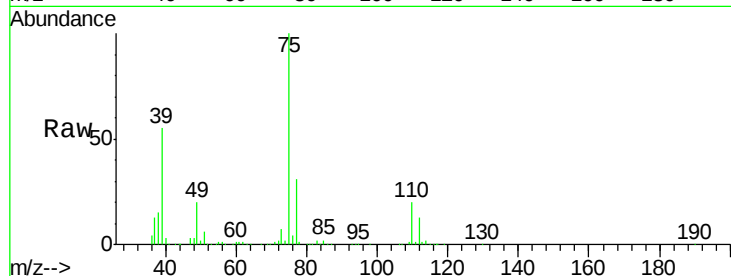
ClientSampleId :

Tot Ion: 75 Resp: 1119101

Ion Ratio Lower Upper

75 100

77 31.2 24.5 36.7



Abundance Ion 75.10 (74.80 to 75.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

9.42

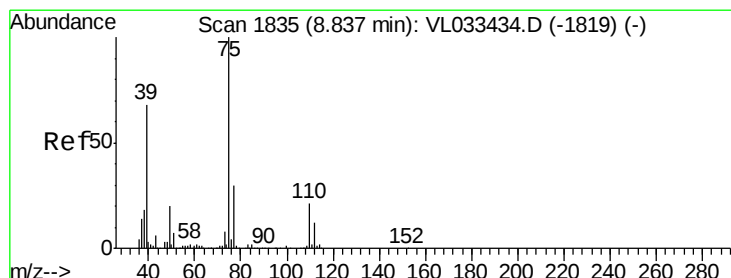
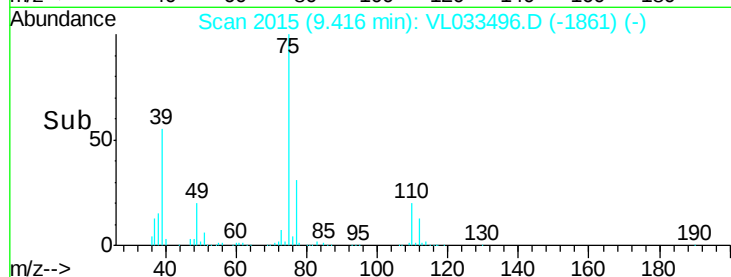
600000

400000

200000

0

Time--> 9.30 9.35 9.40 9.45 9.50



#46

cis-1,3-Dichloropropene

Concen: 11.38 ppbv

RT: 8.84 min Scan# 1835

Delta R.T. -0.00 min

Lab File: VL033496.D

Acq: 29 Mar 2019 9:57

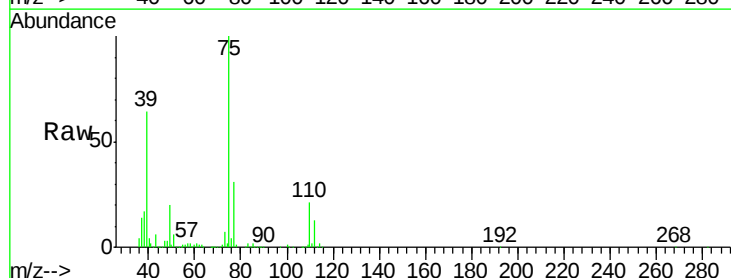
Tgt Ion: 75 Resp: 1256013

Ion Ratio Lower Upper

75 100

39 64.0 54.1 81.1

77 31.1 23.9 35.9



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

8.84

800000

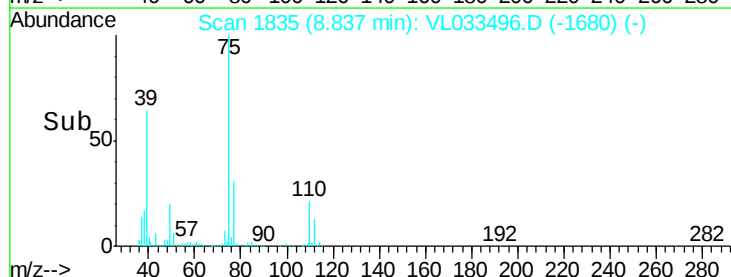
600000

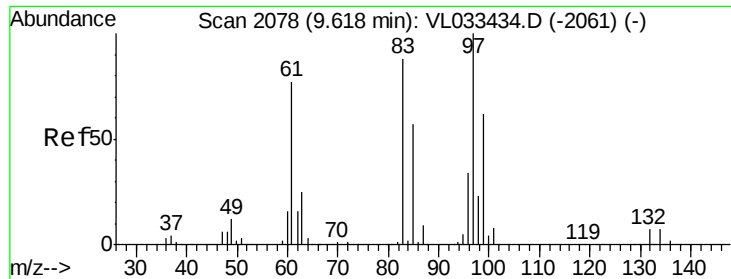
400000

200000

0

Time--> 8.75 8.80 8.85 8.90

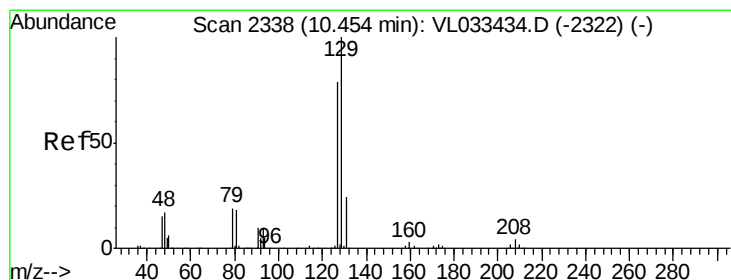
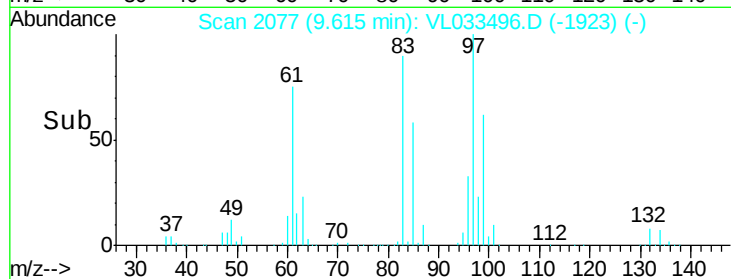
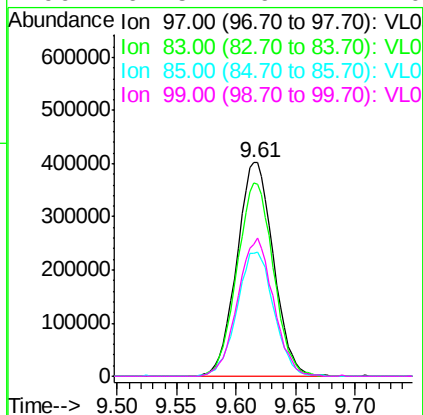
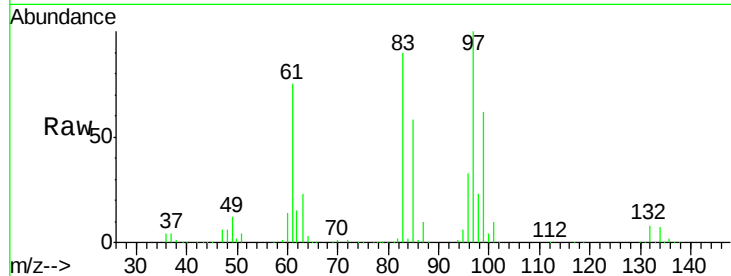




#47
 1,1,2-Trichloroethane
 Concen: 10.16 ppbv
 RT: 9.61 min Scan# 2077
 Delta R.T. -0.00 min
 Lab File: VL033496.D
 Acq: 29 Mar 2019 9:57

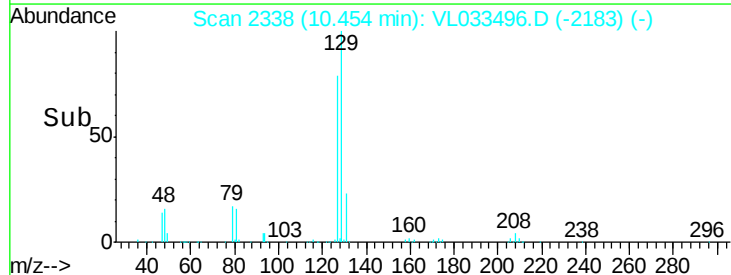
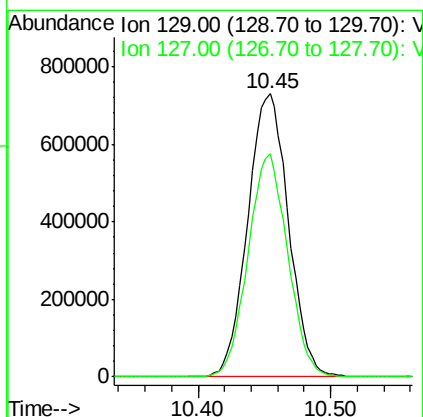
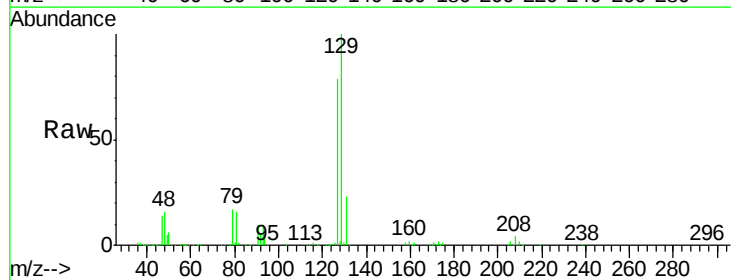
Instrument :
 MSVOA_L
 ClientSampleId :

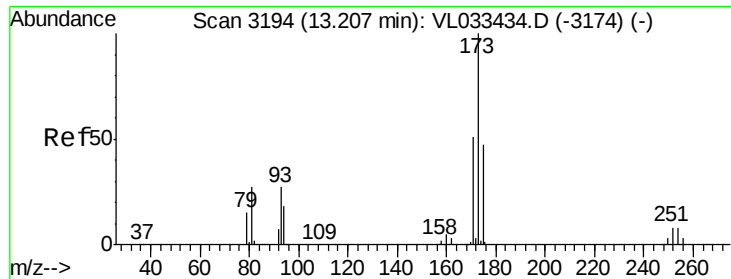
Tot Ion: 97 Resp: 856950
 Ion Ratio Lower Upper
 97 100
 83 90.4 70.5 105.7
 85 57.5 45.6 68.4
 99 61.5 49.4 74.0



#48
 Dibromochloromethane
 Concen: 10.97 ppbv
 RT: 10.45 min Scan# 2338
 Delta R.T. -0.00 min
 Lab File: VL033496.D
 Acq: 29 Mar 2019 9:57

Tgt Ion: 129 Resp: 1560322
 Ion Ratio Lower Upper
 129 100
 127 76.6 39.1 117.2





#49

Bromoform

Concen: 10.29 ppbv

RT: 13.21 min Scan# 3194

Delta R.T. -0.00 min

Lab File: VL033496.D

Acq: 29 Mar 2019 9:57

Instrument :

MSVOA_L

ClientSampleId :

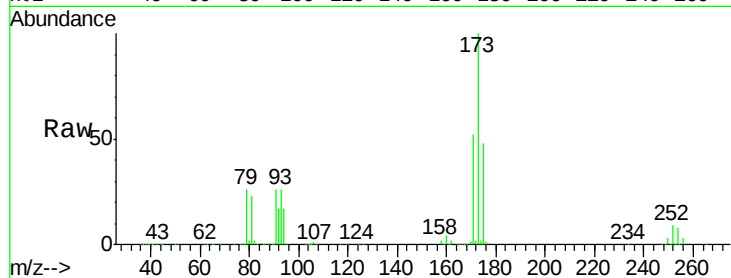
Tot Ion:173 Resp: 1398011

Ion Ratio Lower Upper

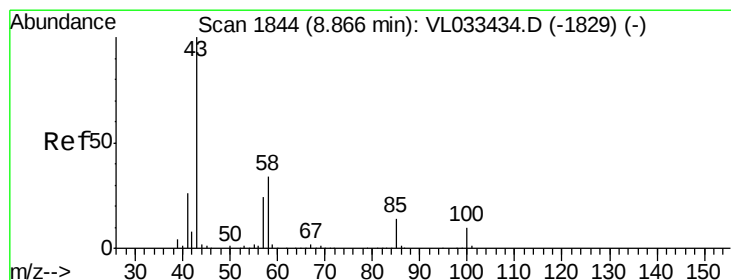
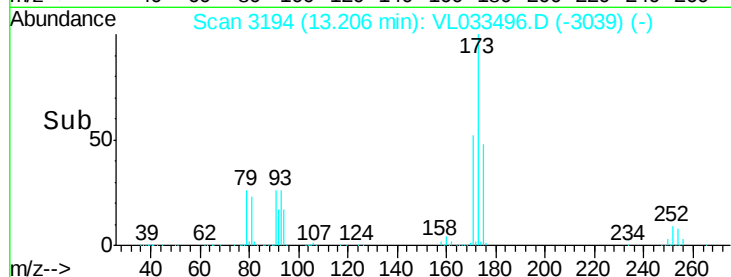
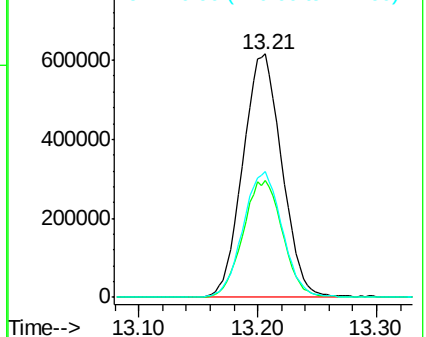
173 100

175 48.8 39.3 58.9

171 52.0 41.2 61.8



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: 10.23 ppbv

RT: 8.87 min Scan# 1845

Delta R.T. 0.00 min

Lab File: VL033496.D

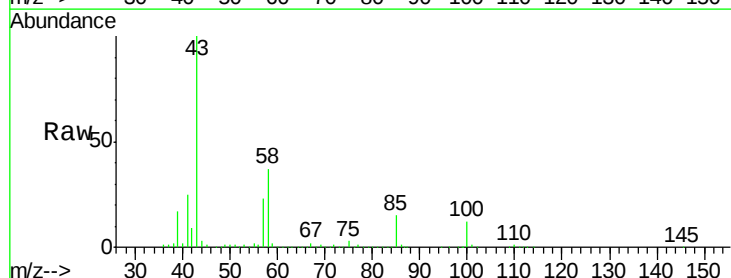
Acq: 29 Mar 2019 9:57

Tgt Ion: 43 Resp: 2033754

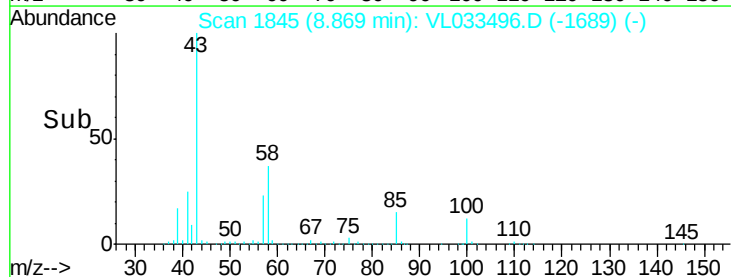
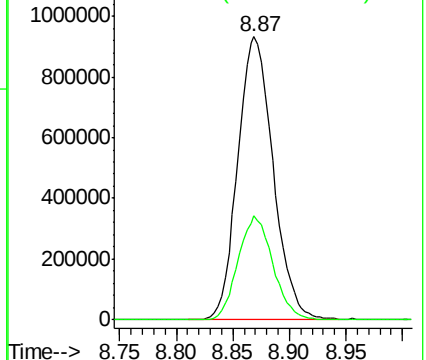
Ion Ratio Lower Upper

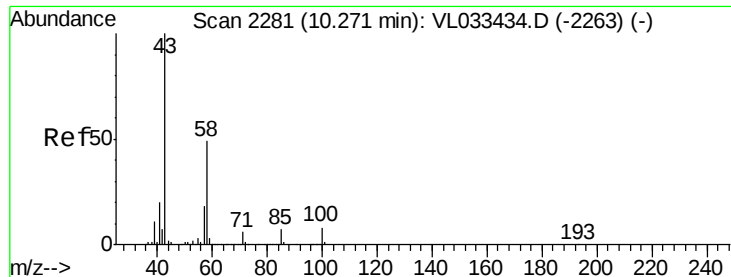
43 100

58 36.1 28.0 42.0



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





#51

2-Hexanone

Concen: 11.07 ppbv

RT: 10.27 min Scan# 2281

Delta R.T. -0.00 min

Lab File: VL033496.D

Acq: 29 Mar 2019 9:57

Instrument :

MSVOA_L

ClientSampled :

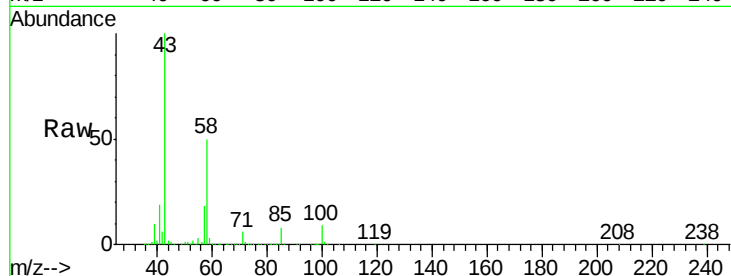
Tot Ion: 43 Resp: 1641287

Ion Ratio Lower Upper

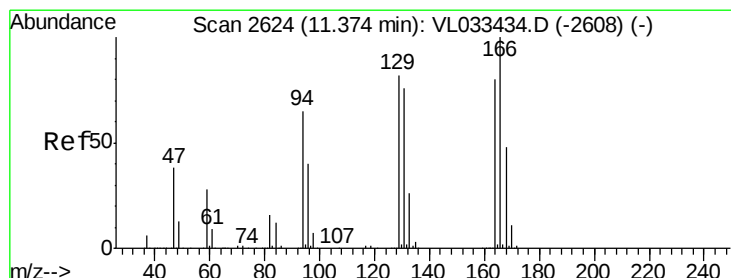
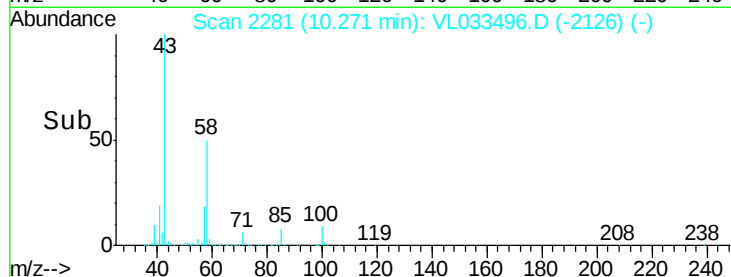
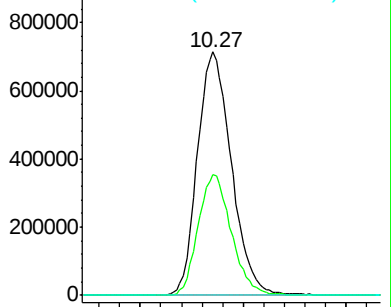
43 100

58 48.6 38.2 57.2

98 0.2 0.2 0.2



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: 11.33 ppbv

RT: 11.38 min Scan# 2625

Delta R.T. 0.00 min

Lab File: VL033496.D

Acq: 29 Mar 2019 9:57

Tgt Ion: 164 Resp: 810694

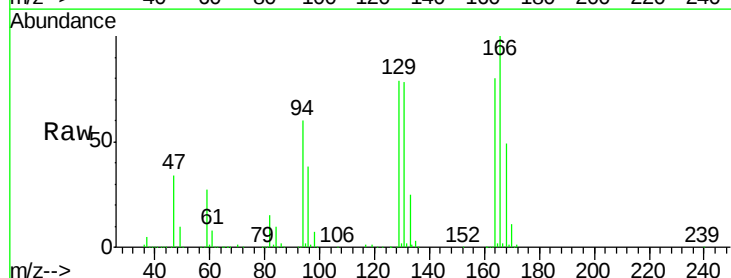
Ion Ratio Lower Upper

164 100

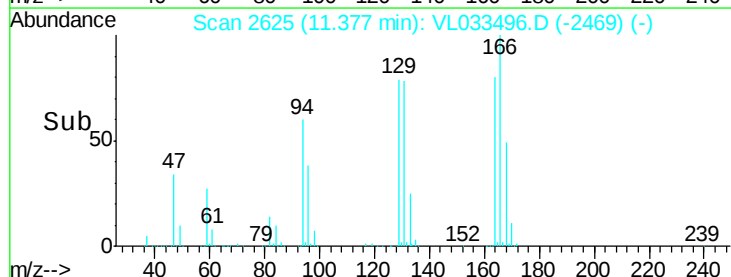
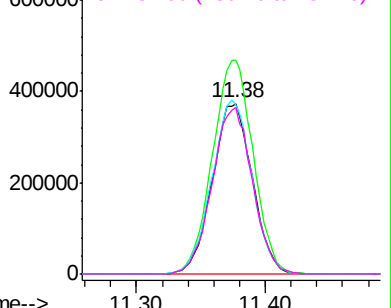
166 125.0 99.5 149.3

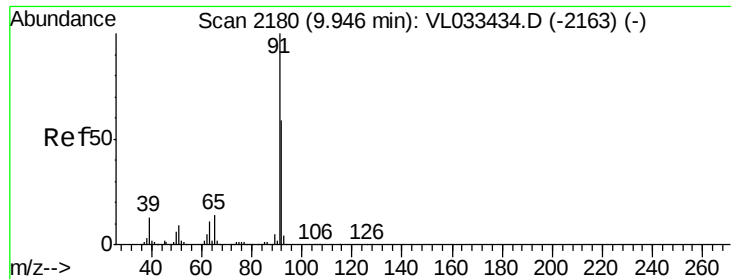
129 98.9 81.4 122.2

131 97.9 75.6 113.4



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: 11.29 ppbv

RT: 9.95 min Scan# 2181

Delta R.T. 0.00 min

Lab File: VL033496.D

Acq: 29 Mar 2019 9:57

Instrument :

MSVOA_L

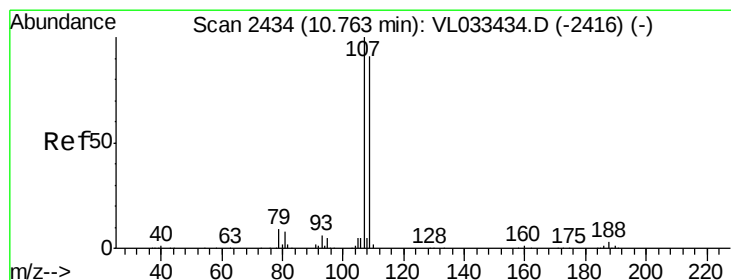
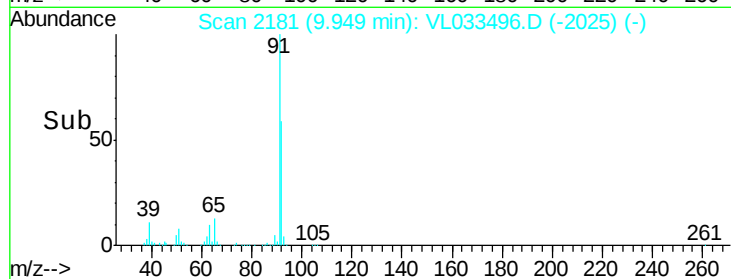
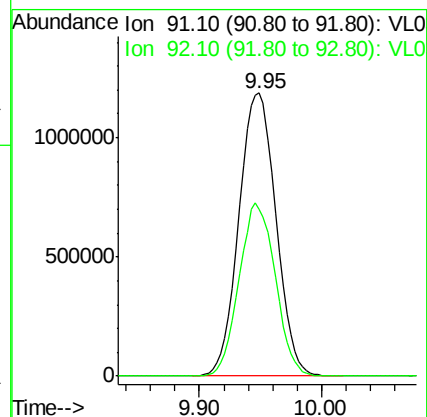
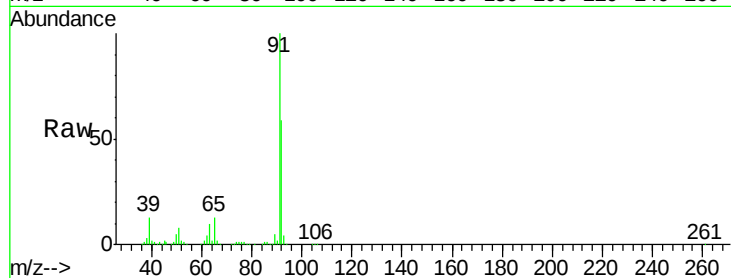
ClientSampleId :

Tot Ion: 91 Resp: 2487683

Ion Ratio Lower Upper

91 100

92 59.9 47.4 71.0



#54

1,2-Dibromoethane

Concen: 10.55 ppbv

RT: 10.76 min Scan# 2433

Delta R.T. -0.00 min

Lab File: VL033496.D

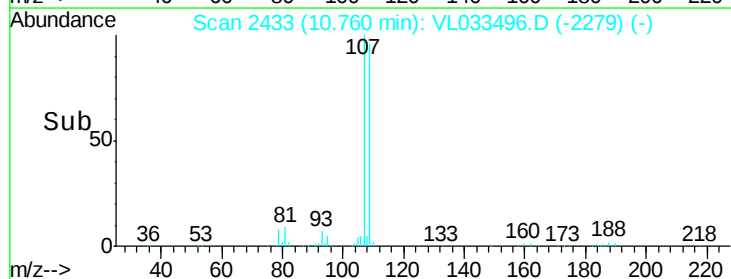
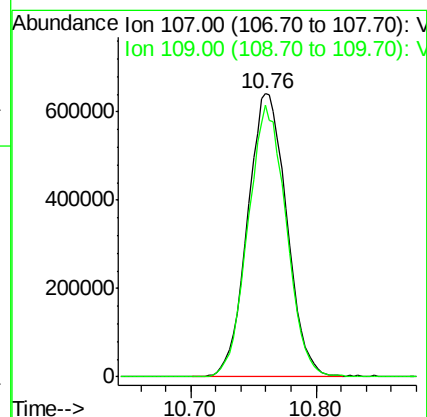
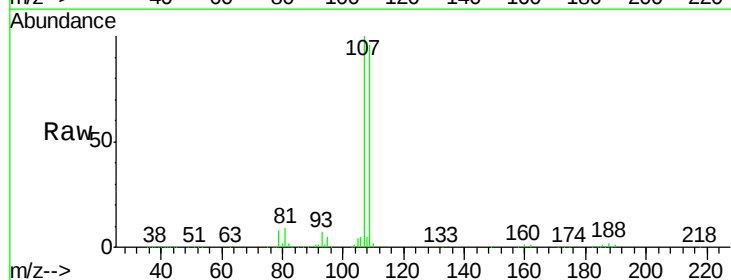
Acq: 29 Mar 2019 9:57

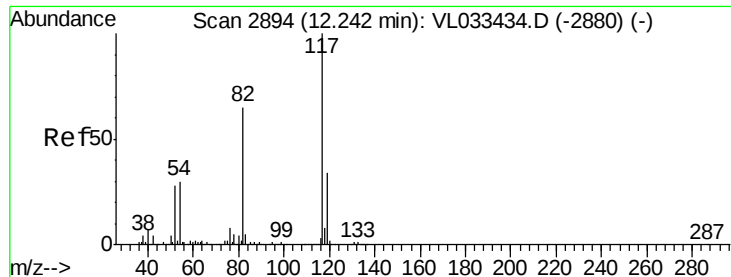
Tgt Ion: 107 Resp: 1392280

Ion Ratio Lower Upper

107 100

109 95.8 72.7 109.1





#55

Chlorobenzene-d5

Concen: 10.00 ppbv

RT: 12.24 min Scan# 2894

Delta R.T. -0.00 min

Lab File: VL033496.D

Acq: 29 Mar 2019 9:57

Instrument :

MSVOA_L

ClientSampled :

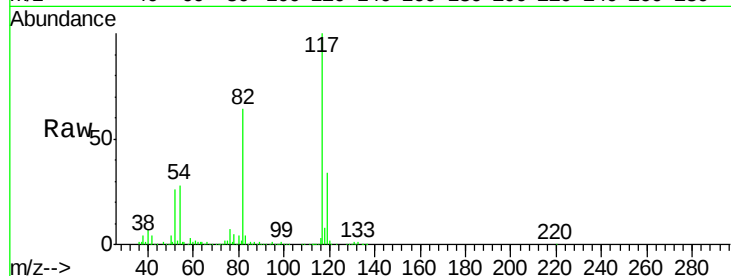
Tot Ion:117 Resp: 2526223

Ion Ratio Lower Upper

117 100

82 59.8 51.5 77.3

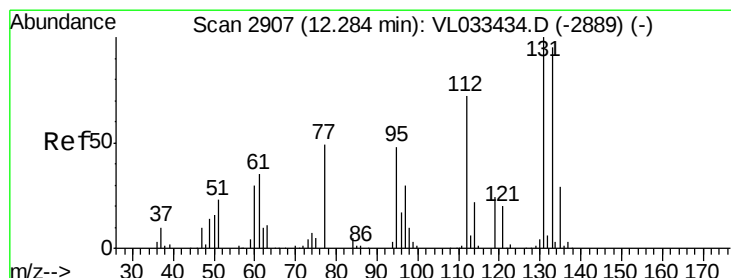
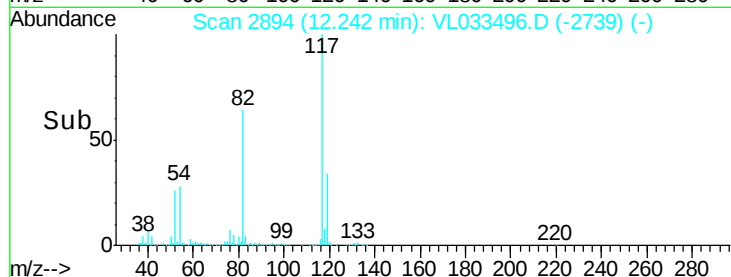
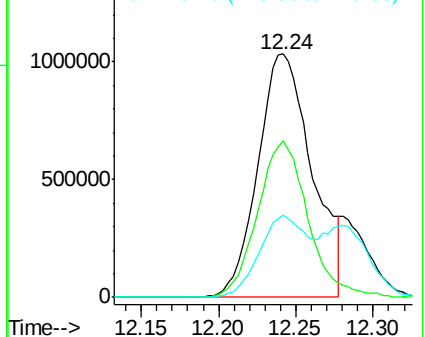
119 29.4 25.5 38.3



Abundance Ion 117.10 (116.80 to 117.80): V

Ion 82.10 (81.80 to 82.80): V

Ion 119.10 (118.80 to 119.80): V



#56

1,1,1,2-Tetrachloroethane

Concen: 9.32 ppbv

RT: 12.28 min Scan# 2906

Delta R.T. -0.00 min

Lab File: VL033496.D

Acq: 29 Mar 2019 9:57

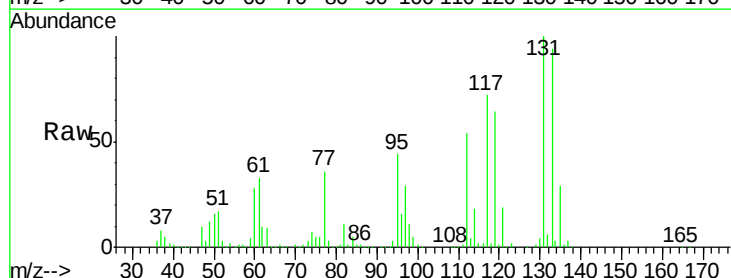
Tgt Ion:131 Resp: 1079385

Ion Ratio Lower Upper

131 100

133 94.6 76.2 114.4

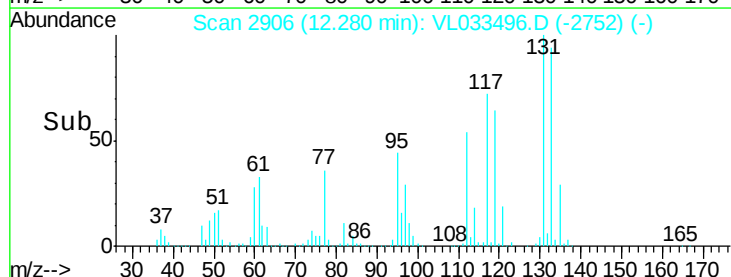
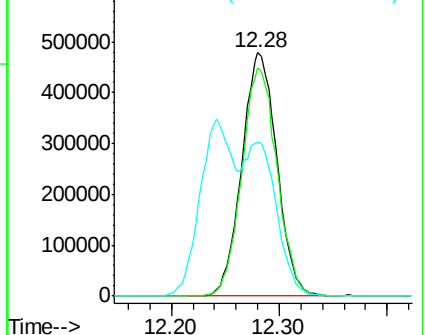
119 65.7 45.0 67.6

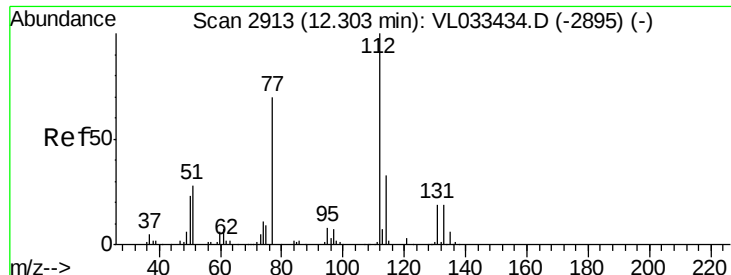


Abundance Ion 131.00 (130.70 to 131.70): V

Ion 133.00 (132.70 to 133.70): V

Ion 119.00 (118.70 to 119.70): V

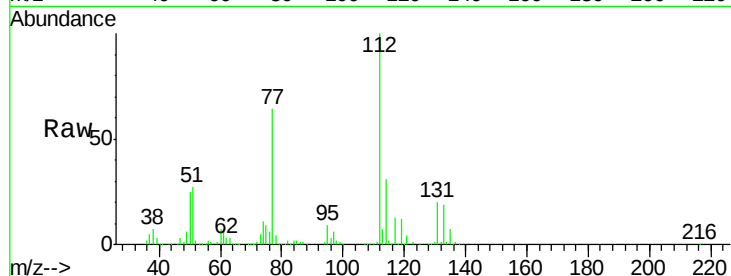




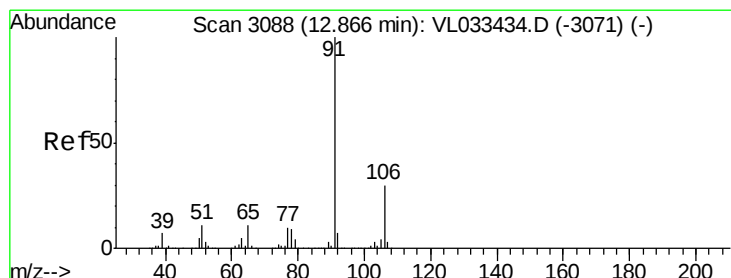
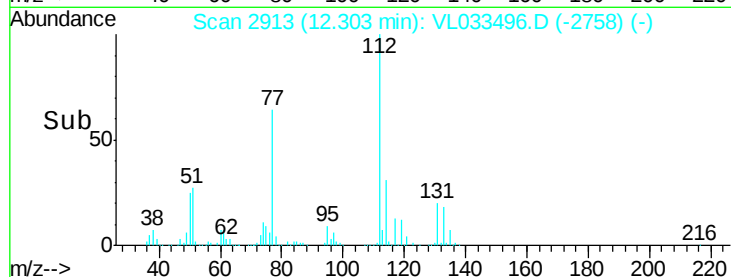
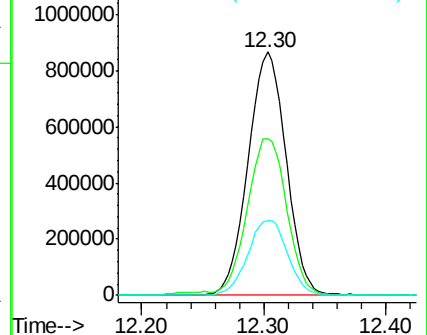
#57
Chlorobenzene
Concen: 9.50 ppbv
RT: 12.30 min Scan# 2913
Delta R.T. -0.00 min
Lab File: VL033496.D
Acq: 29 Mar 2019 9:57

Instrument :
MSVOA_L
ClientSampleId :

Tot Ion:112 Resp: 1864201
Ion Ratio Lower Upper
112 100
77 64.0 57.3 85.9
114 30.8 29.8 36.4

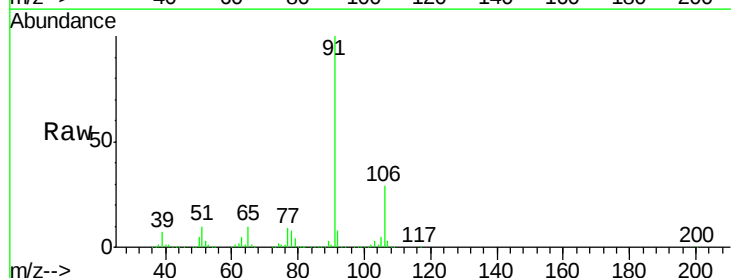


Abundance Ion 112.10 (111.80 to 112.80): V
Ion 77.10 (76.80 to 77.80): VL0
Ion 114.10 (113.80 to 114.80): V

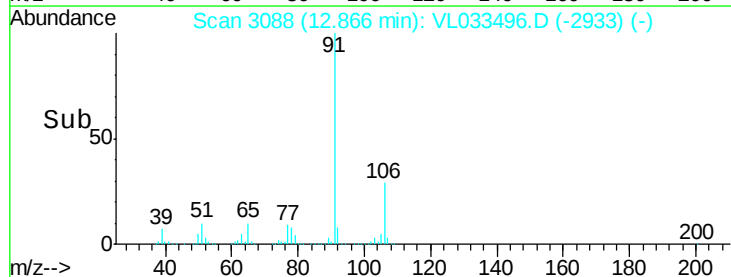
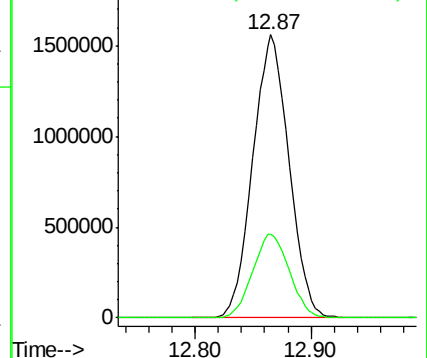


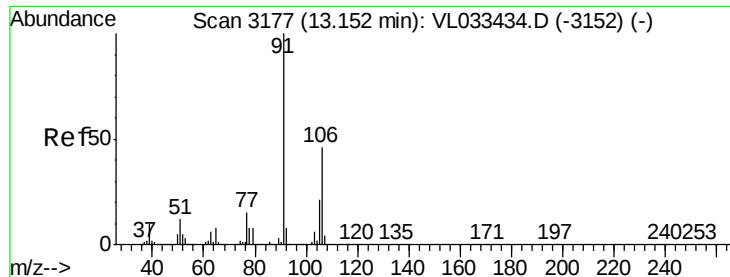
#58
Ethyl Benzene
Concen: 10.05 ppbv
RT: 12.87 min Scan# 3088
Delta R.T. -0.00 min
Lab File: VL033496.D
Acq: 29 Mar 2019 9:57

Tgt Ion: 91 Resp: 3389143
Ion Ratio Lower Upper
91 100
106 29.4 23.8 35.6



Abundance Ion 91.10 (90.80 to 91.80): VL0
Ion 106.10 (105.80 to 106.80): V





#59

m/p-Xylene

Concen: 8.26 ppbv

RT: 13.15 min Scan# 3176

Delta R.T. -0.00 min

Lab File: VL033496.D

Acq: 29 Mar 2019 9:57

Instrument :

MSVOA_L

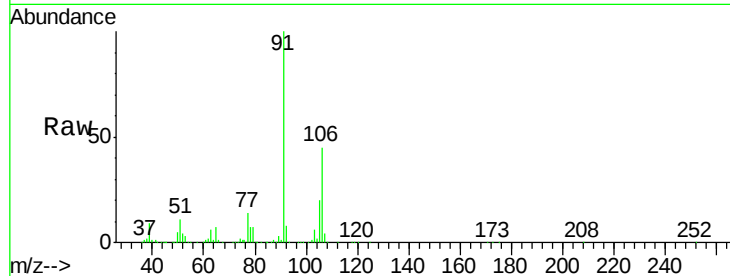
ClientSampleId :

Tot Ion: 91 Resp: 2487981

Ion Ratio Lower Upper

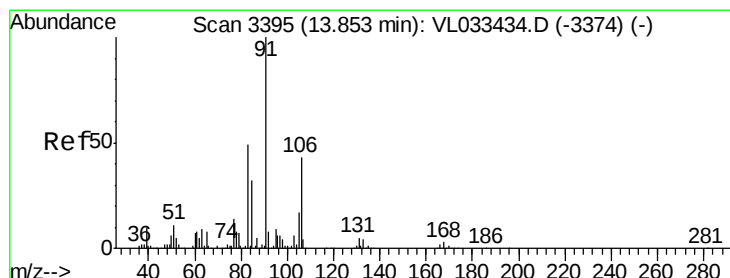
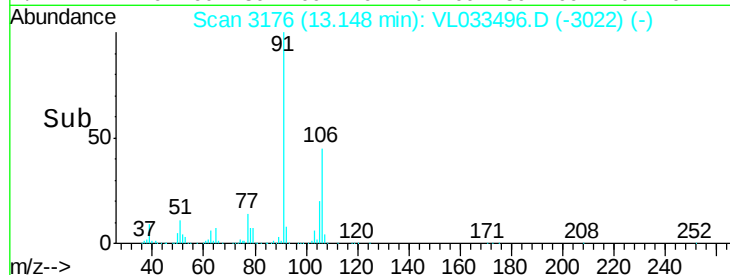
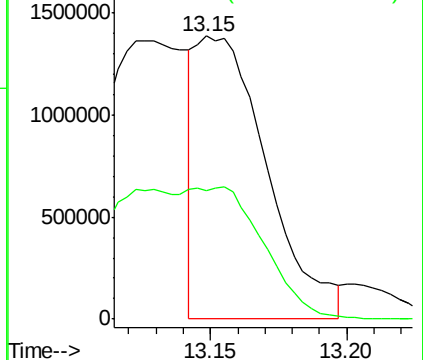
91 100

106 103.8 0.0 0.0#



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V



#60

o-Xylene

Concen: 9.50 ppbv

RT: 13.85 min Scan# 3395

Delta R.T. -0.00 min

Lab File: VL033496.D

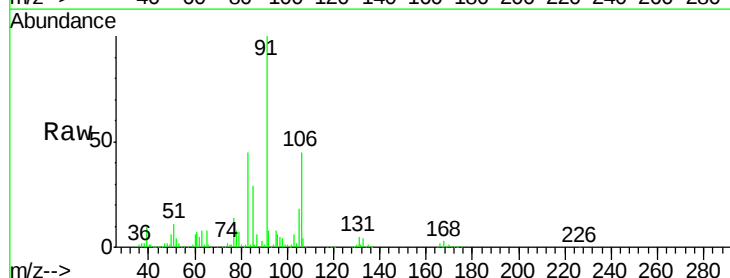
Acq: 29 Mar 2019 9:57

Tgt Ion: 91 Resp: 2768659

Ion Ratio Lower Upper

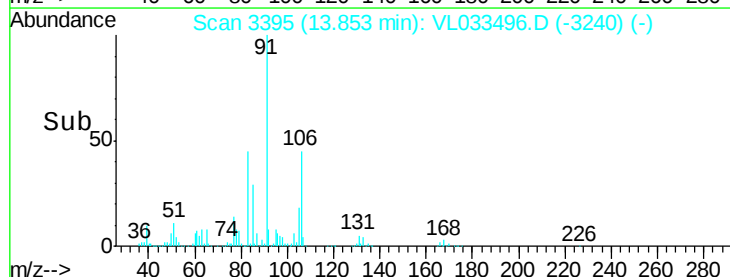
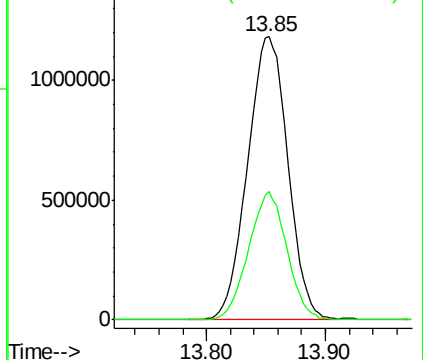
91 100

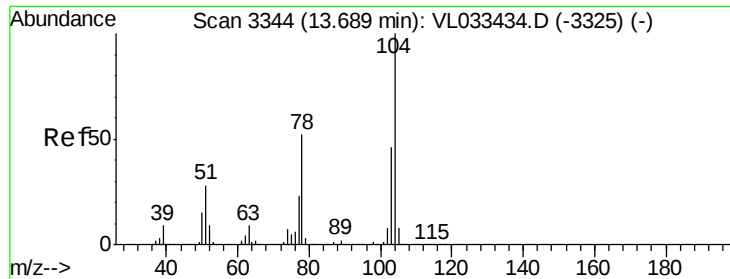
106 43.2 21.4 64.3



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V





#61

Stvrene

Concen: 10.67 ppbv

RT: 13.69 min Scan# 3343

Delta R.T. -0.00 min

Lab File: VL033496.D

Acq: 29 Mar 2019 9:57

Instrument :

MSVOA_L

ClientSampleId :

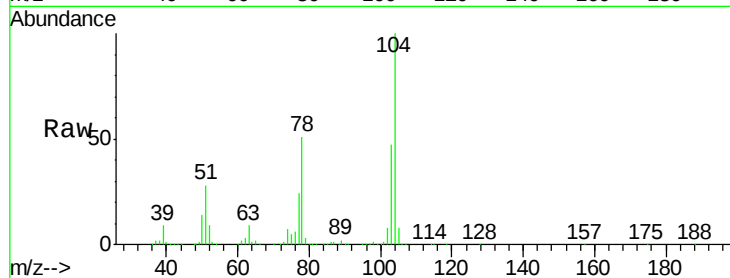
Tot Ion:104 Resp: 2134368

Ion Ratio Lower Upper

104 100

78 51.8 43.2 64.8

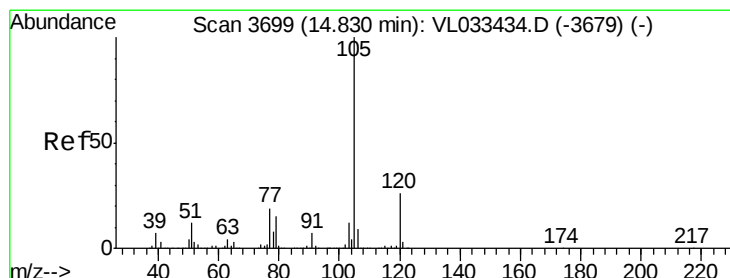
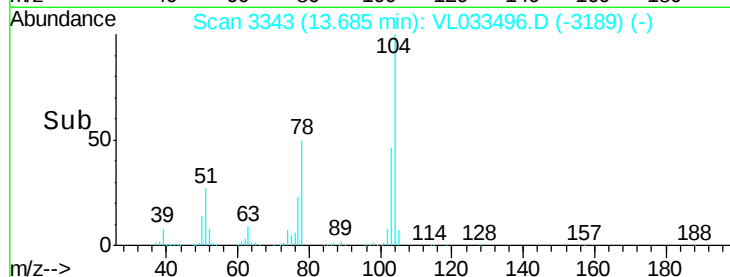
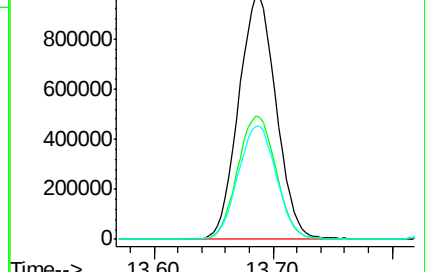
103 47.8 37.8 56.8



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: 9.52 ppbv

RT: 14.83 min Scan# 3698

Delta R.T. -0.00 min

Lab File: VL033496.D

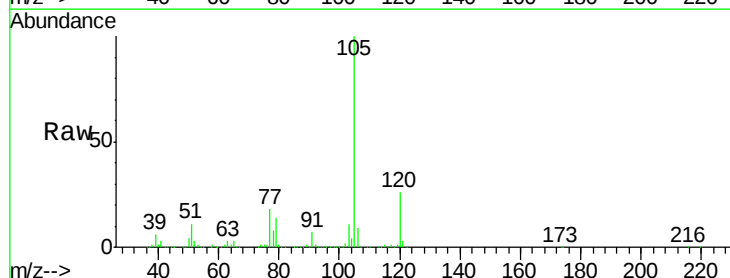
Acq: 29 Mar 2019 9:57

Tgt Ion:105 Resp: 3928926

Ion Ratio Lower Upper

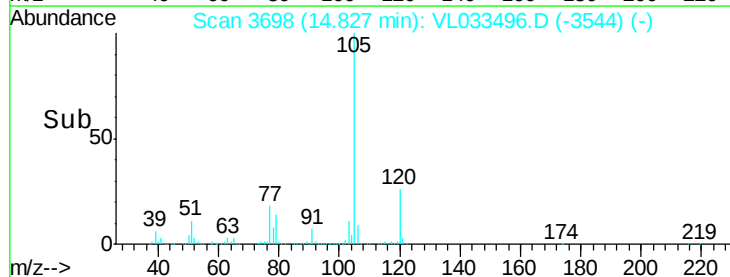
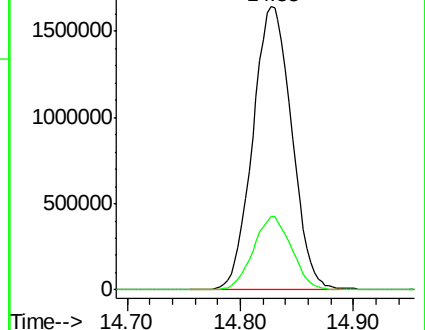
105 100

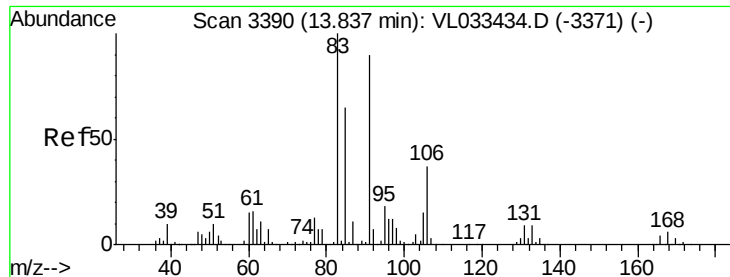
120 25.5 20.2 30.2



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

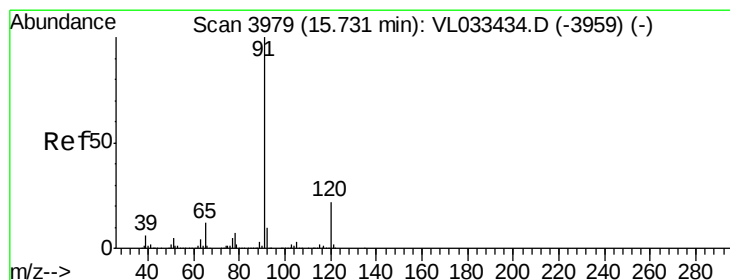
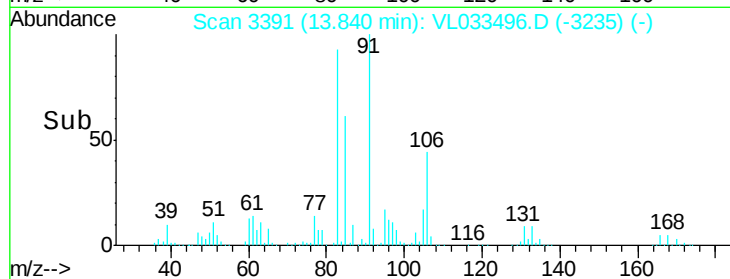
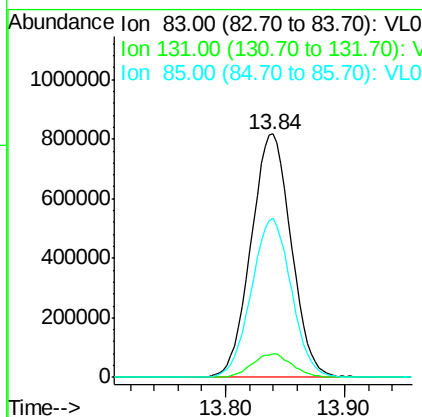
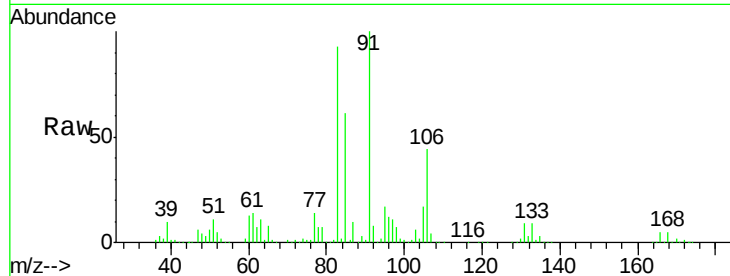




#63
 1,1,2,2-Tetrachloroethane
 Concen: 8.89 ppbv
 RT: 13.84 min Scan# 3391
 Delta R.T. 0.00 min
 Lab File: VL033496.D
 Acq: 29 Mar 2019 9:57

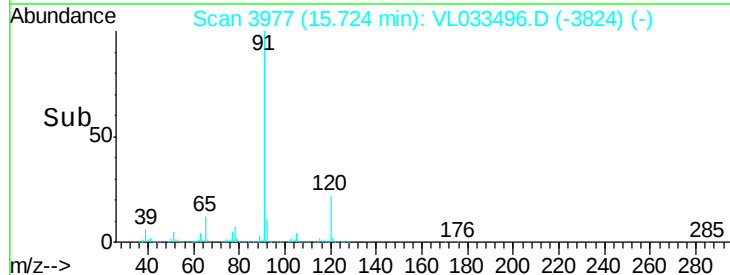
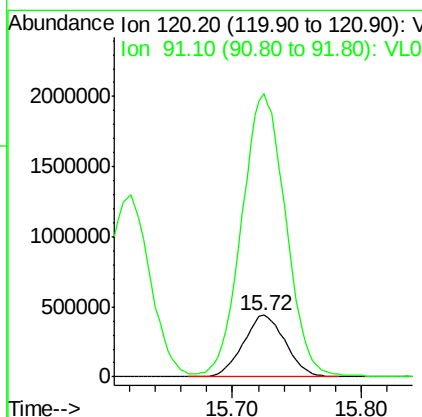
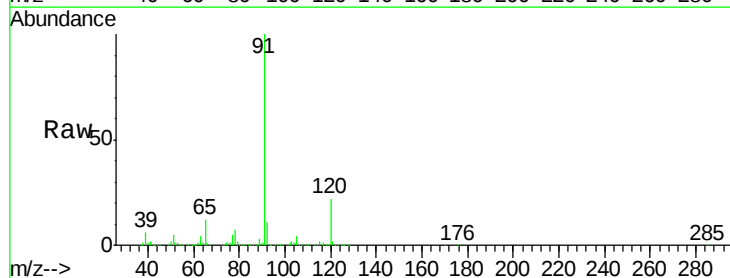
Instrument :
 MSVOA_L
 ClientSampled :

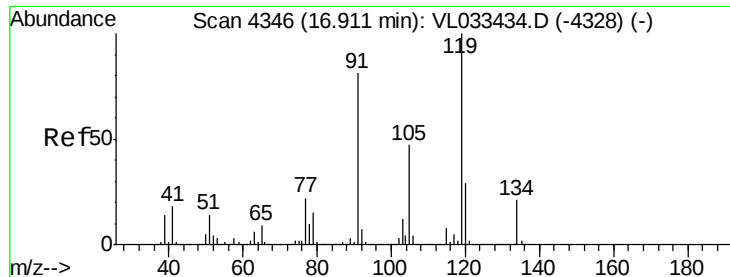
Tot Ion: 83 Resp: 1908146
 Ion Ratio Lower Upper
 83 100
 131 9.7 4.7 14.0
 85 64.9 32.7 98.1



#64
 n-propylbenzene
 Concen: 9.61 ppbv
 RT: 15.72 min Scan# 3977
 Delta R.T. -0.01 min
 Lab File: VL033496.D
 Acq: 29 Mar 2019 9:57

Tgt Ion:120 Resp: 1006421
 Ion Ratio Lower Upper
 120 100
 91 478.1 387.4 581.2

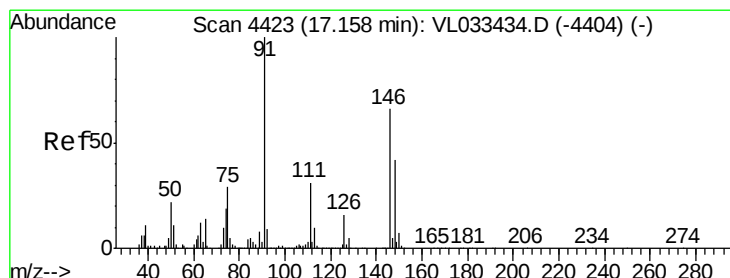
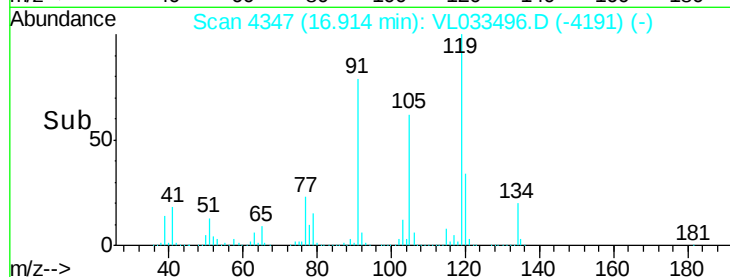
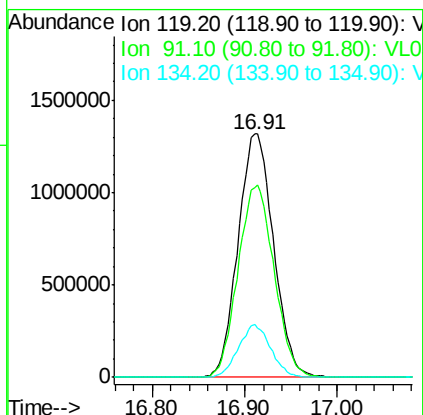
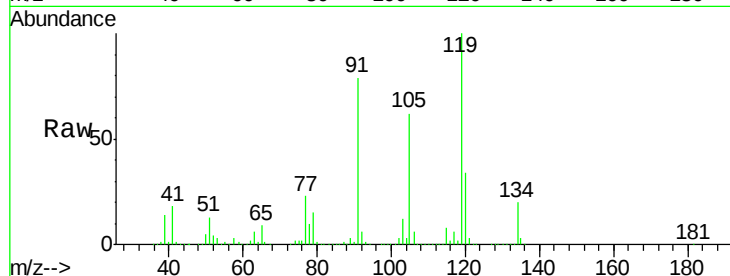




#65
tert-Butylbenzene
Concen: 9.62 ppbv
RT: 16.91 min Scan# 4347
Delta R.T. 0.00 min
Lab File: VL033496.D
Acq: 29 Mar 2019 9:57

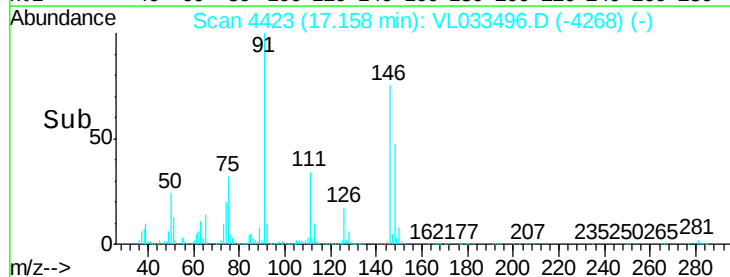
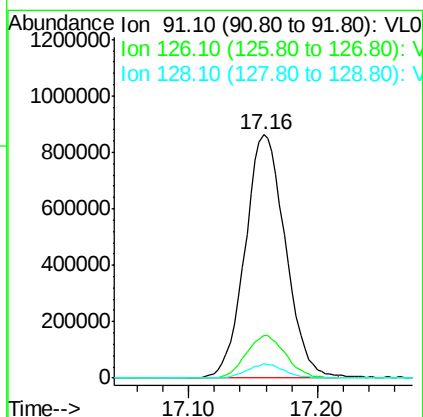
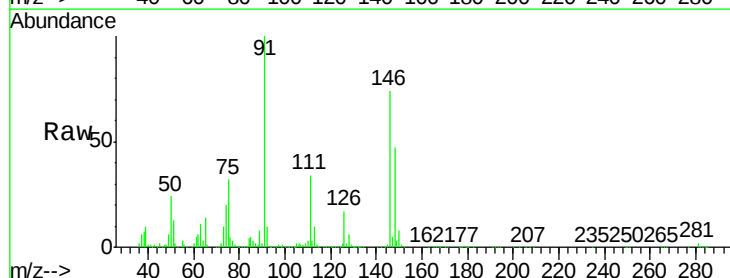
Instrument :
MSVOA_L
ClientSampleId :

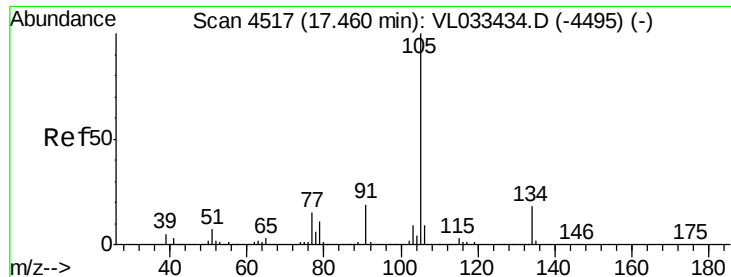
Tot Ion:119 Resp: 3499239
Ion Ratio Lower Upper
119 100
91 80.6 66.4 99.6
134 19.8 15.5 23.3



#66
Benzyl Chloride
Concen: 11.11 ppbv
RT: 17.16 min Scan# 4423
Delta R.T. -0.00 min
Lab File: VL033496.D
Acq: 29 Mar 2019 9:57

Tgt Ion: 91 Resp: 1878494
Ion Ratio Lower Upper
91 100
126 17.4 13.0 19.6
128 5.5 4.2 6.2





#67

sec-Butylbenzene

Concen: 9.56 ppbv

RT: 17.46 min Scan# 4517

Delta R.T. -0.00 min

Lab File: VL033496.D

Acq: 29 Mar 2019 9:57

Instrument :

MSVOA_L

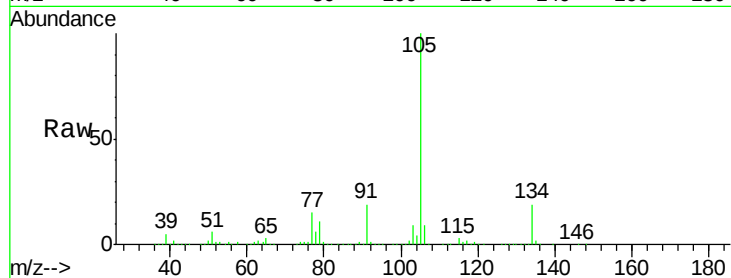
ClientSampleId :

Tot Ion:105 Resp: 4945203

Ion Ratio Lower Upper

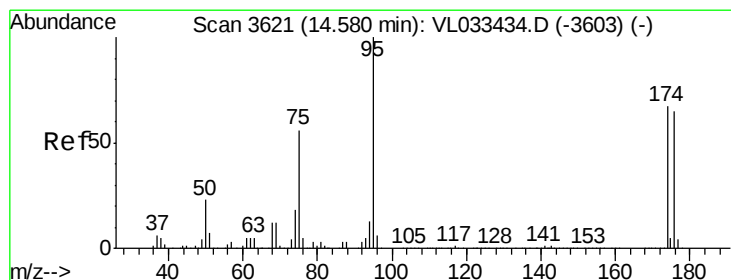
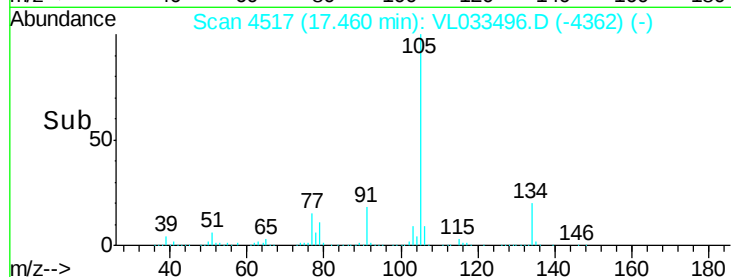
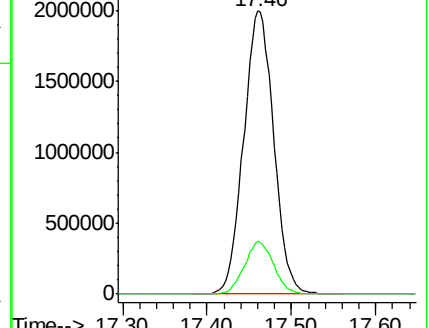
105 100

134 18.1 14.6 21.8



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 134.20 (133.90 to 134.90): V



#68

1-Bromo-4-Fluorobenzene

Concen: 8.93 ppbv

RT: 14.58 min Scan# 3621

Delta R.T. -0.00 min

Lab File: VL033496.D

Acq: 29 Mar 2019 9:57

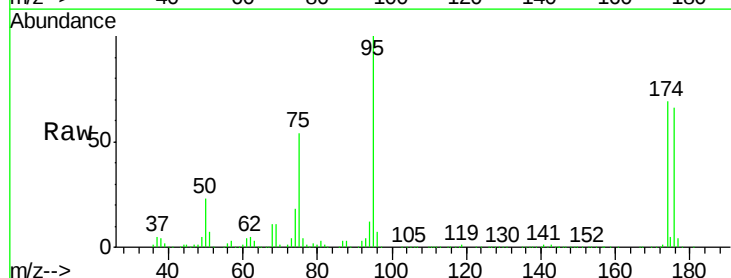
Tgt Ion: 95 Resp: 1768155

Ion Ratio Lower Upper

95 100

174 68.6 52.9 79.3

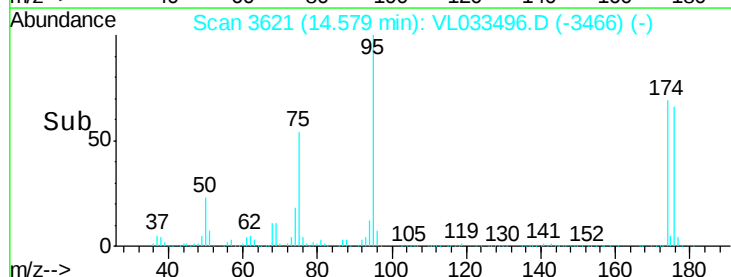
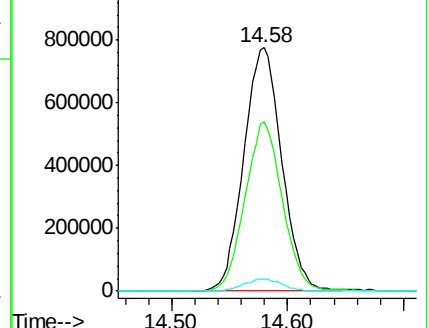
175 4.9 3.8 5.6

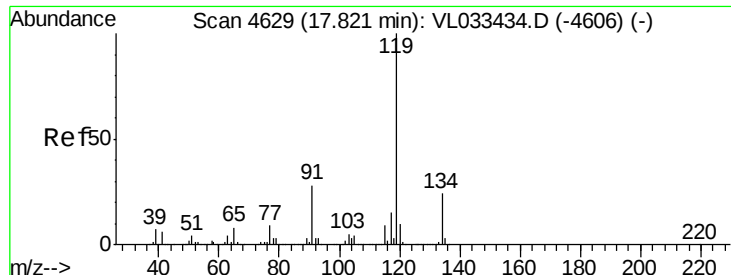


Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V

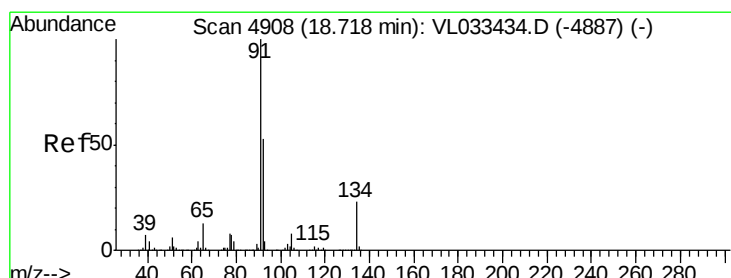
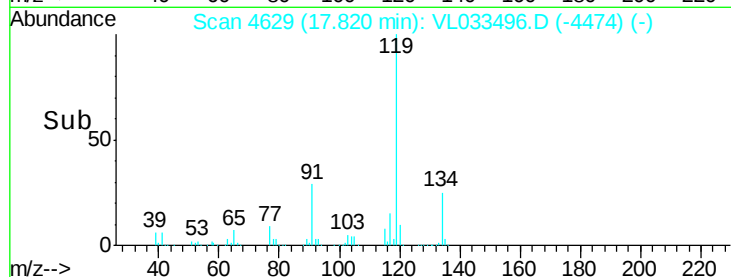
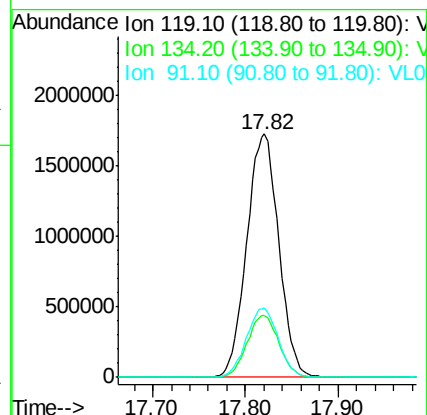
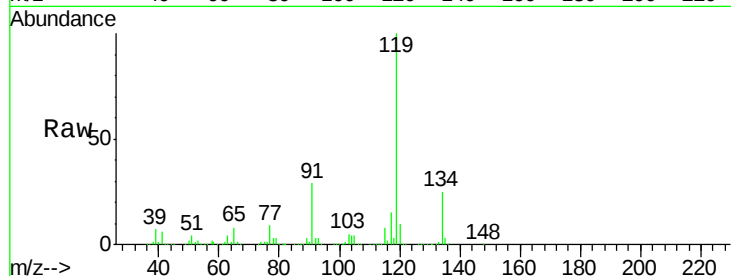




#69
p-Isopropyltoluene
Concen: 9.81 ppbv
RT: 17.82 min Scan# 4629
Delta R.T. -0.00 min
Lab File: VL033496.D
Acq: 29 Mar 2019 9:57

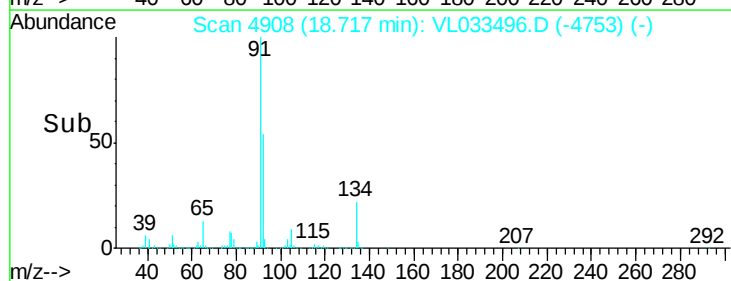
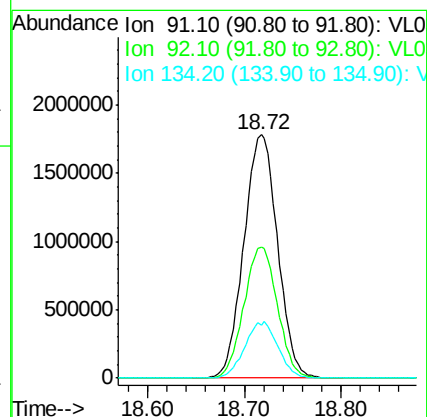
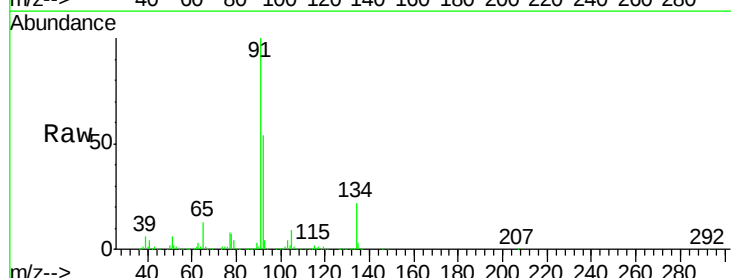
Instrument :
MSVOA_L
ClientSampled :

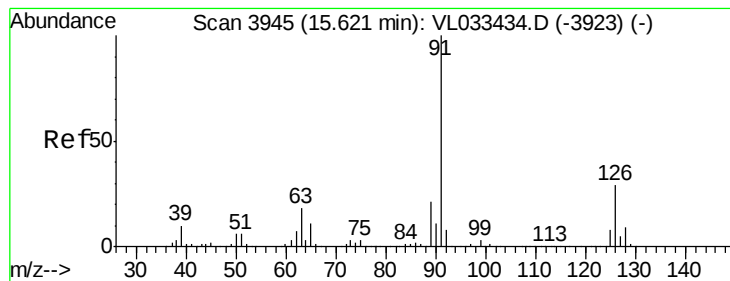
Tot Ion:119 Resp: 4130250
Ion Ratio Lower Upper
119 100
134 25.3 19.9 29.9
91 28.4 23.4 35.0



#70
n-Butylbenzene
Concen: 9.67 ppbv
RT: 18.72 min Scan# 4908
Delta R.T. -0.00 min
Lab File: VL033496.D
Acq: 29 Mar 2019 9:57

Tgt Ion: 91 Resp: 4313065
Ion Ratio Lower Upper
91 100
92 53.7 42.6 64.0
134 22.7 17.5 26.3





#71

2-Chlorotoluene

Concen: 9.59 ppbv

RT: 15.62 min Scan# 3945

Delta R.T. -0.00 min

Lab File: VL033496.D

Acq: 29 Mar 2019 9:57

Instrument :

MSVOA_L

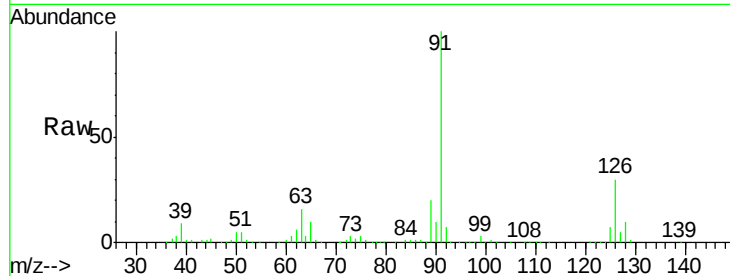
ClientSampleId :

Tot Ion: 91 Resp: 3009647

Ion Ratio Lower Upper

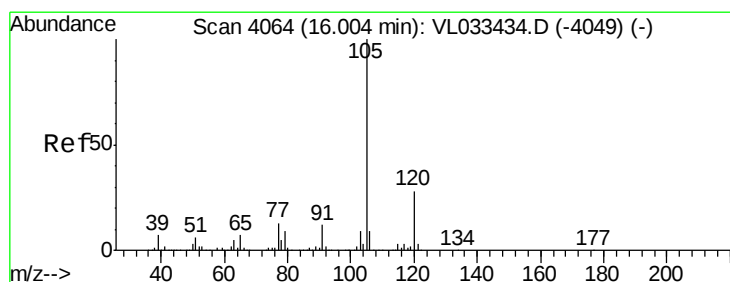
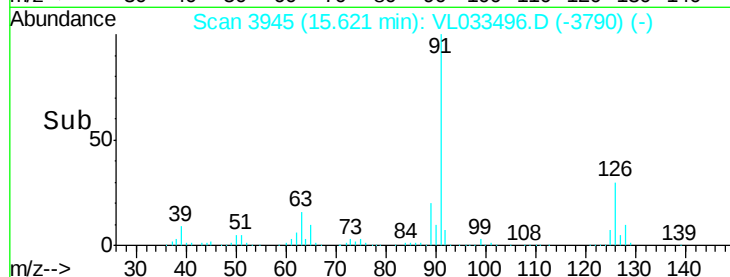
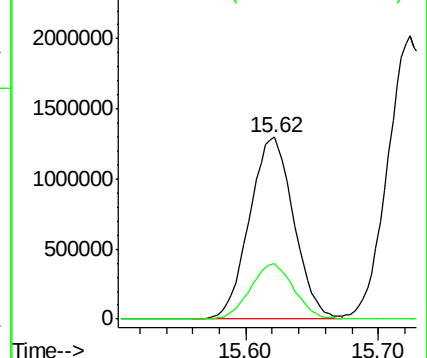
91 100

126 30.1 11.7 46.9



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 126.10 (125.80 to 126.80): V



#72

4-Ethyltoluene

Concen: 9.78 ppbv

RT: 16.00 min Scan# 4063

Delta R.T. -0.00 min

Lab File: VL033496.D

Acq: 29 Mar 2019 9:57

Tgt Ion:105 Resp: 3202102

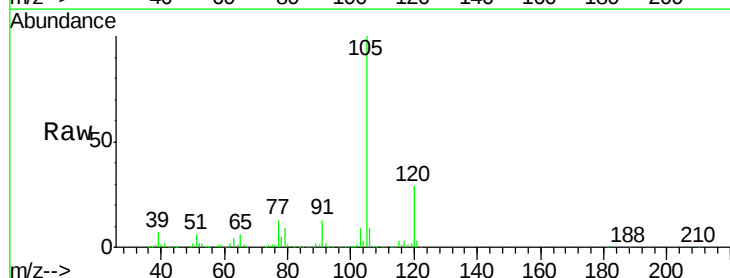
Ion Ratio Lower Upper

105 100

120 29.5 23.2 34.8

91 12.7 10.4 15.6

77 13.8 11.3 16.9

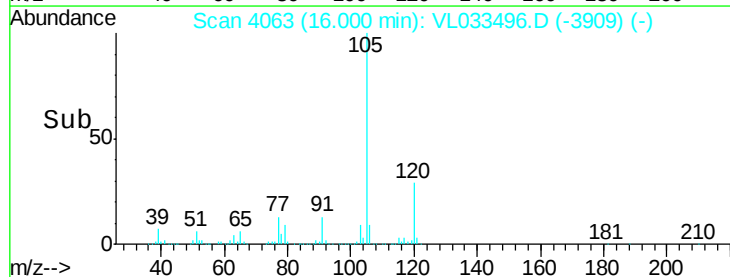
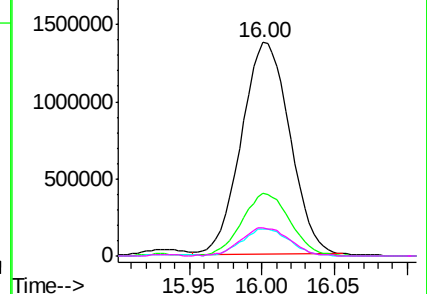


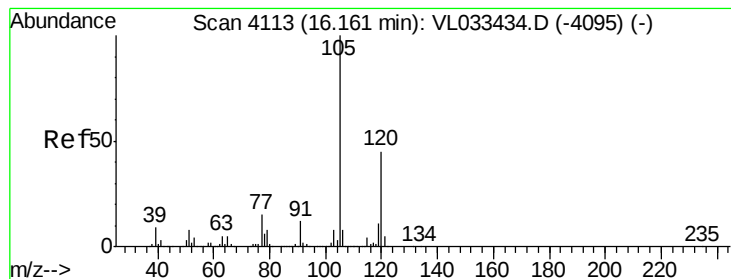
Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 77.10 (76.80 to 77.80): VL0





#73

1,3,5-Trimethylbenzene

Concen: 9.86 ppbv

RT: 16.16 min Scan# 4114

Delta R.T. 0.00 min

Lab File: VL033496.D

Acq: 29 Mar 2019 9:57

Instrument :

MSVOA_L

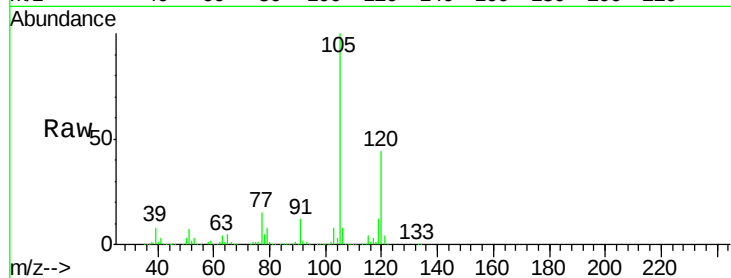
ClientSampled :

Tot Ion:105 Resp: 3090856

Ion Ratio Lower Upper

105 100

120 43.7 35.7 53.5



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

1500000

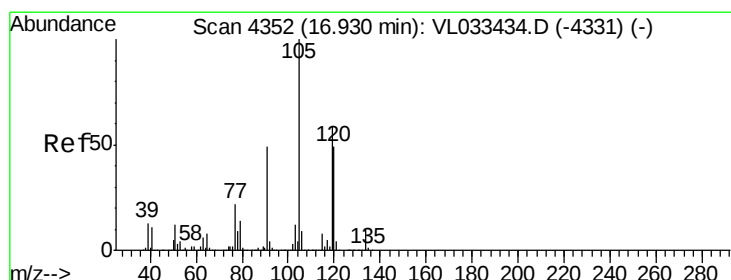
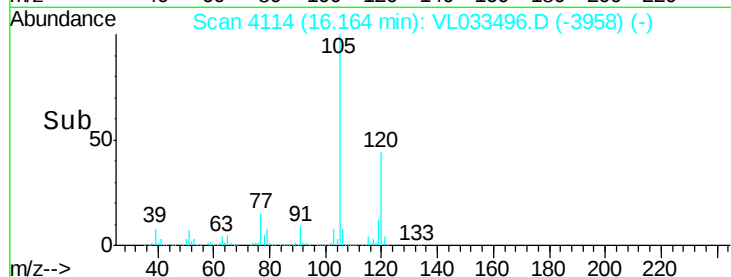
1000000

500000

0

Time-->

16.10 16.20



#74

1,2,4-Trimethylbenzene

Concen: 9.52 ppbv

RT: 16.93 min Scan# 4352

Delta R.T. -0.00 min

Lab File: VL033496.D

Acq: 29 Mar 2019 9:57

Tgt Ion:105 Resp: 3197813

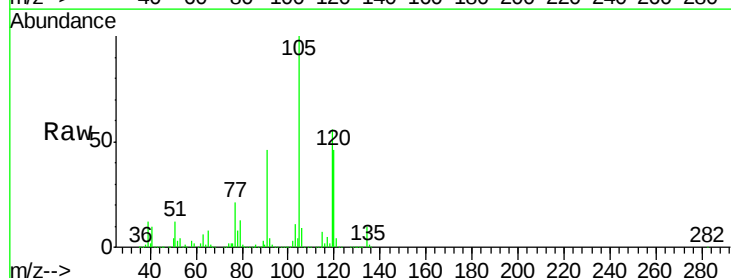
Ion Ratio Lower Upper

105 100

120 46.4 39.0 58.6

91 46.2 40.0 60.0

77 20.5 17.5 26.3



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

2000000

1500000

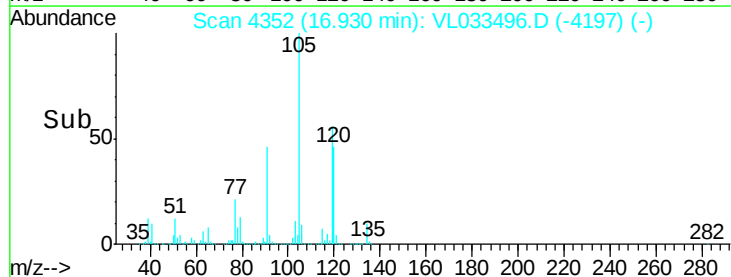
1000000

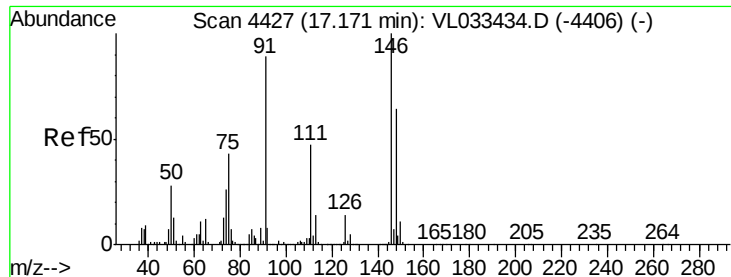
500000

0

Time-->

16.80 16.90 17.00





#75

1,3-Dichlorobenzene

Concen: 9.27 ppbv

RT: 17.17 min Scan# 4426

Delta R.T. -0.00 min

Lab File: VL033496.D

Acq: 29 Mar 2019 9:57

Instrument :

MSVOA_L

ClientSampleId :

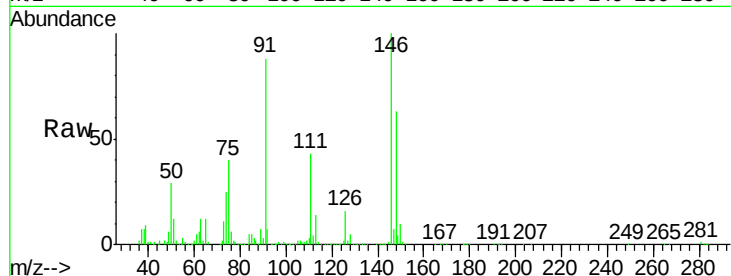
Tot Ion:146 Resp: 1925557

Ion	Ratio	Lower	Upper
146	100		
111	44.6	22.9	68.8
148	64.4	32.0	96.2

146 100

111 44.6 22.9 68.8

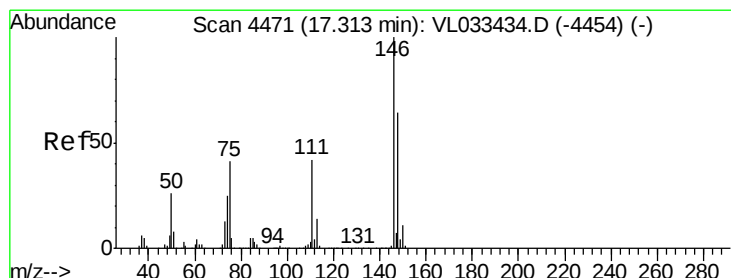
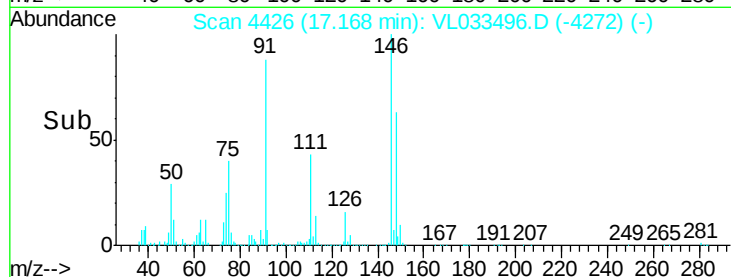
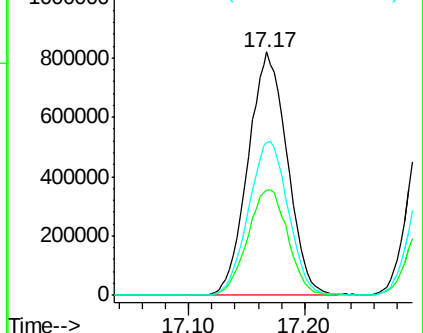
148 64.4 32.0 96.2



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.10 (110.80 to 111.80): V

Ion 148.00 (147.70 to 148.70): V



#76

1,4-Dichlorobenzene

Concen: 9.52 ppbv

RT: 17.31 min Scan# 4470

Delta R.T. -0.00 min

Lab File: VL033496.D

Acq: 29 Mar 2019 9:57

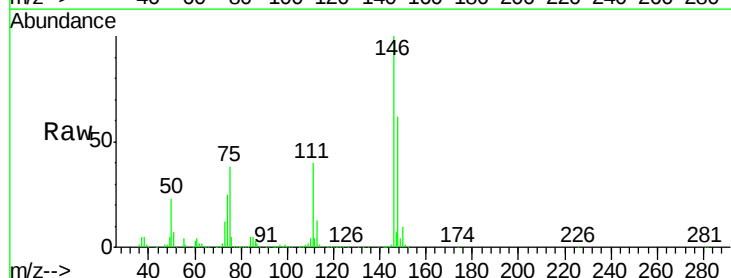
Tgt Ion:146 Resp: 1926658

Ion	Ratio	Lower	Upper
146	100		
111	43.0	21.7	65.1
148	64.4	32.0	96.2

146 100

111 43.0 21.7 65.1

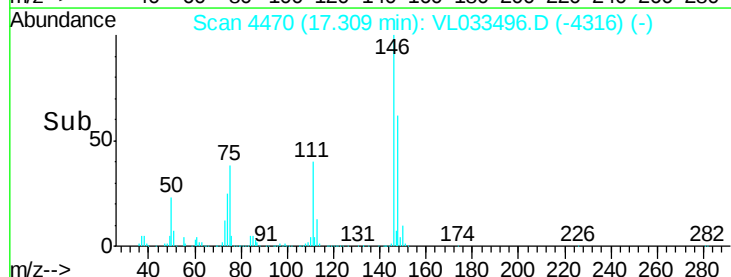
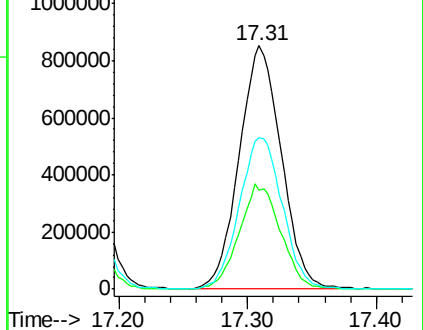
148 64.4 32.0 96.2

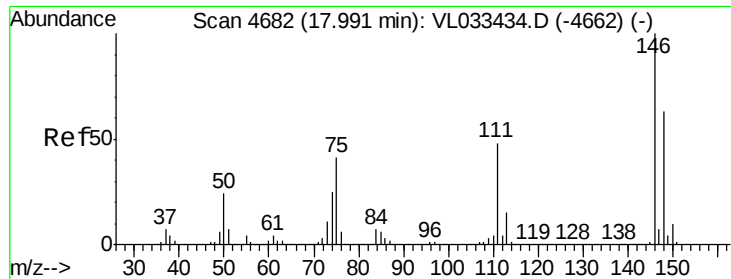


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.10 (110.80 to 111.80): V

Ion 148.00 (147.70 to 148.70): V

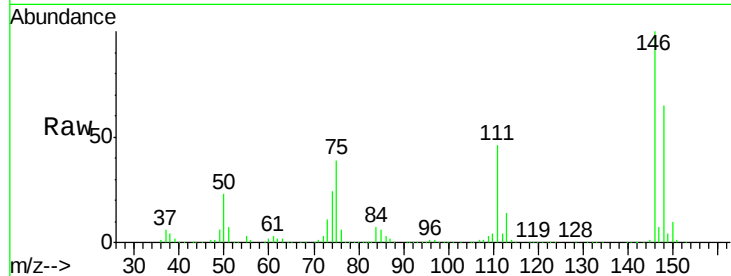




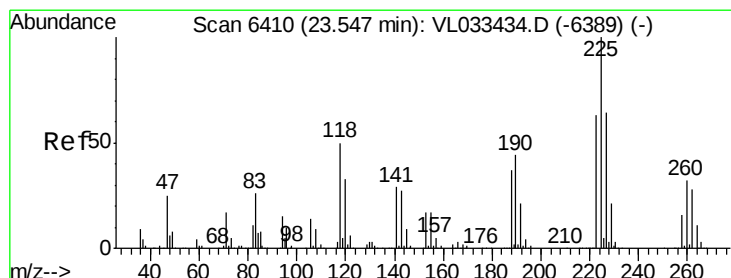
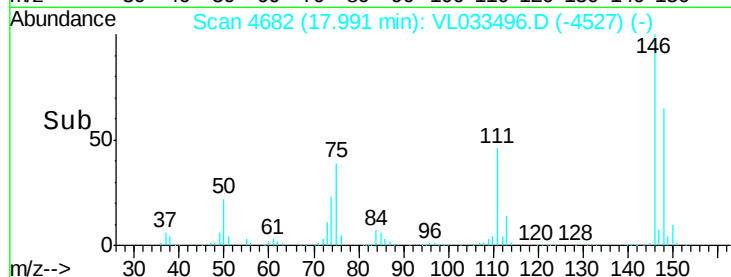
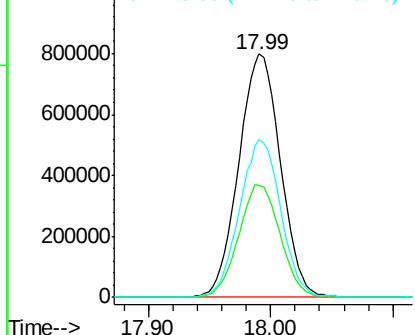
#77
 1,2-Dichlorobenzene
 Concen: 9.55 ppbv
 RT: 17.99 min Scan# 4682
 Delta R.T. -0.00 min
 Lab File: VL033496.D
 Acq: 29 Mar 2019 9:57

Instrument :
 MSVOA_L
 ClientSampleId :

Tot Ion:146 Resp: 1881405
 Ion Ratio Lower Upper
 146 100
 111 46.2 23.5 70.5
 148 64.4 32.0 96.0

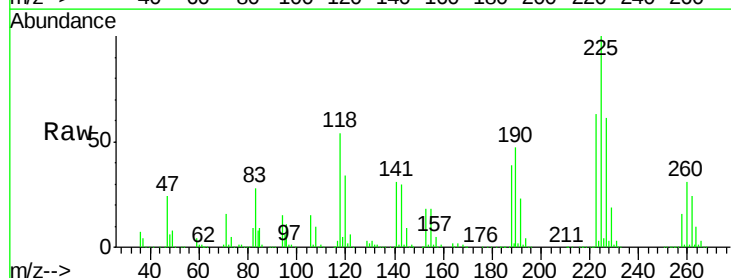


Abundance Ion 146.00 (145.70 to 146.70): V
 Ion 111.10 (110.80 to 111.80): V
 Ion 148.00 (147.70 to 148.70): V

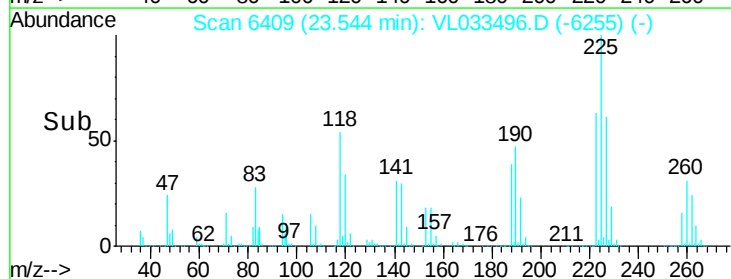
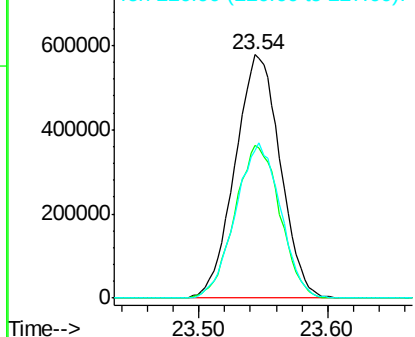


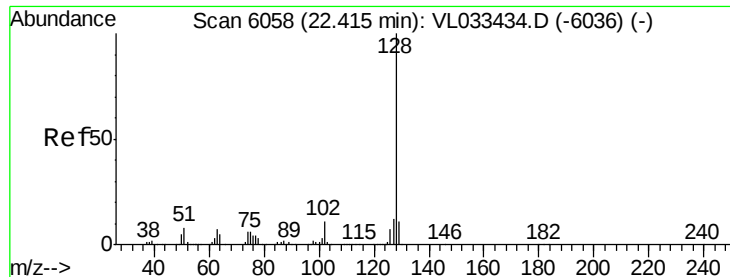
#78
 Hexachloro-1,3-Butadiene
 Concen: 10.80 ppbv
 RT: 23.54 min Scan# 6409
 Delta R.T. -0.00 min
 Lab File: VL033496.D
 Acq: 29 Mar 2019 9:57

Tgt Ion:225 Resp: 1408158
 Ion Ratio Lower Upper
 225 100
 223 62.9 50.0 75.0
 227 63.5 51.1 76.7



Abundance Ion 224.90 (224.60 to 225.60): V
 Ion 222.90 (222.60 to 223.60): V
 Ion 226.90 (226.60 to 227.60): V





#79

Naphthalene

Concen: 11.35 ppbv

RT: 22.42 min Scan# 6059

Delta R.T. 0.00 min

Lab File: VL033496.D

Acq: 29 Mar 2019 9:57

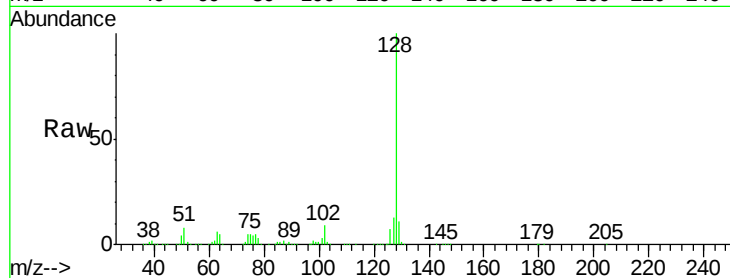
Instrument :

MSVOA_L

ClientSampleId :

Tot Ion:128 Resp: 3263985

Ion	Ratio	Lower	Upper
128	100		
127	12.6	9.8	14.8
129	10.5	8.6	12.8

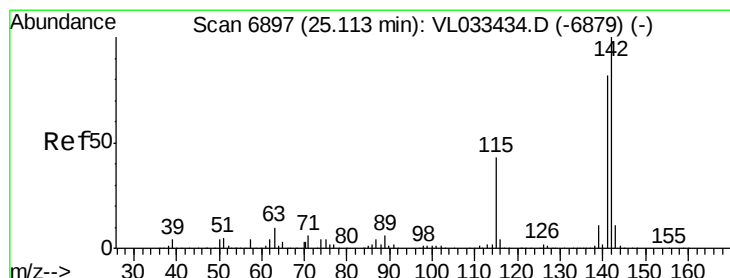
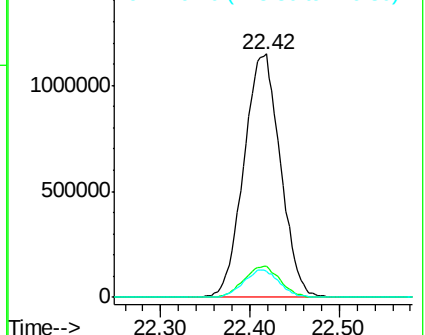
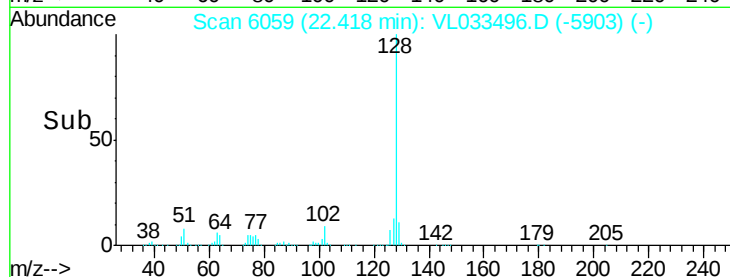


Abundance

Ion 128.10 (127.80 to 128.80): V

Ion 127.10 (126.80 to 127.80): V

Ion 129.10 (128.80 to 129.80): V



#80

Naphthalene, 2-methyl-

Concen: 15.88 ppbv

RT: 25.11 min Scan# 6897

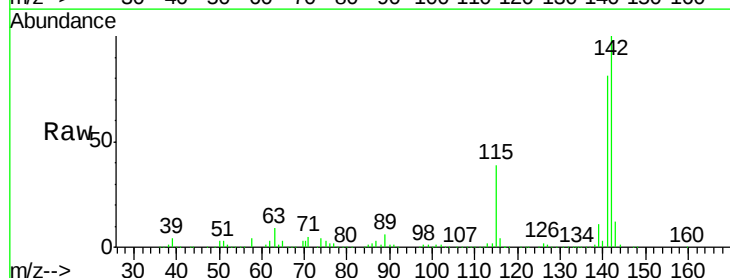
Delta R.T. -0.00 min

Lab File: VL033496.D

Acq: 29 Mar 2019 9:57

Tgt Ion:142 Resp: 1532626

Ion	Ratio	Lower	Upper
142	100		
141	84.4	66.6	99.8
115	39.9	34.4	51.6

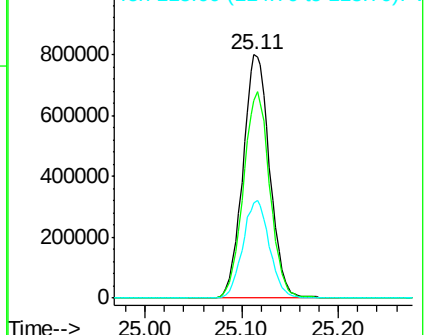
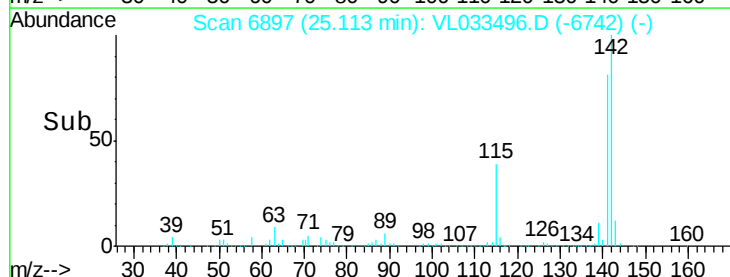


Abundance

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

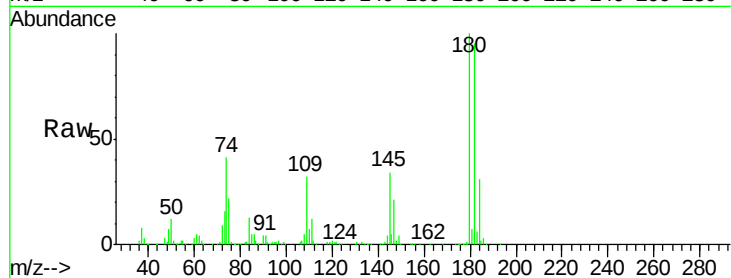




#81
 1,2,4-Trichlorobenzene
 Concen: 10.47 ppbv
 RT: 22.14 min Scan# 5972
 Delta R.T. -0.00 min
 Lab File: VL033496.D
 Acq: 29 Mar 2019 9:57

Instrument :
 MSVOA_L
 ClientSampleId :

Tot Ion:180 Resp: 1669836
 Ion Ratio Lower Upper
 180 100
 182 96.0 77.0 115.4
 184 31.1 24.6 36.8



Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 184.00 (183.70 to 184.70): V

