

Data File : VL034783.D
Acq On : 4 Mar 2020 5:54
Operator : SY/AP
Sample : VSTDICV010
Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
ICVVL030420

Quant Time: Mar 04 06:45:35 2020
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL030420AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Mar 04 06:36:39 2020
QLast Update : Wed Mar 04 06:36:39 2020
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.68	49	1096060	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.20	114	2297050	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.14	117	2360401	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.47	95	1947564	9.90	ppbv	-0.01
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.00%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	3.02	85	1377508	7.701	ppbv	95
3) Chlorodifluoromethane	2.96	51	1100694	8.815	ppbv	99
4) Chloromethane	3.11	50	615196	9.147	ppbv	94
5) Vinyl Chloride	3.23	62	613680	8.637	ppbv	99
6) Bromomethane	3.45	94	358520	9.245	ppbv	96
7) Chloroethane	3.54	64	236806	9.639	ppbv	97
8) Dichlorotetrafluoroethane	3.16	85	1391238	8.953	ppbv	100
9) Propene	2.98	41	471010	9.583	ppbv	99
10) Heptane	8.15	43	1239929	9.926	ppbv	97
11) Trichlorofluoromethane	3.93	101	1426594	8.913	ppbv	98
12) 1,1,2-Trichlorotrifluoroet	4.48	101	973542	8.816	ppbv	99
13) Ethanol	3.59	45	129333	7.680	ppbv	98
14) Bromoethene	3.72	108	434717	9.593	ppbv	97
15) Acetone	3.83	43	1132155	8.626	ppbv	100
16) 1,3-Butadiene	3.30	39	572670	9.643	ppbv	99
17) tert-Butyl alcohol	4.28	59	1002152	9.683	ppbv	99
18) 1,1-Dichloroethene	4.28	96	457060	9.384	ppbv	97
19) Isopropyl Alcohol	3.96	45	795109	10.110	ppbv	100
20) Methylene Chloride	4.33	84	407448	8.698	ppbv	97
21) Allyl Chloride	4.40	41	803244	9.664	ppbv	99
22) trans-1,2-Dichloroethene	4.89	96	456383	9.599	ppbv	99
23) Vinyl Acetate	5.08	43	1793254	10.189	ppbv	99
24) 1,1-Dichloroethane	5.01	63	1281586	9.382	ppbv	98
25) Ethyl Acetate	5.68	43	2163708	9.540	ppbv	100
26) Hexane	5.69	57	958222	9.671	ppbv	99
27) Carbon Disulfide	4.55	76	1194725	10.321	ppbv	99
28) Methyl tert-Butyl Ether	5.03	73	1422075	9.642	ppbv	100
29) Chloroform	5.77	83	1522135	9.126	ppbv	99
30) Cyclohexane	7.15	84	791618	10.443	ppbv	99
31) cis-1,2-Dichloroethene	5.56	61	995325	9.794	ppbv	98
32) 1,1,1-Trichloroethane	6.53	97	1455889	8.833	ppbv	99
34) 2-Butanone	5.25	43	1432214	9.584	ppbv	99
35) Carbon Tetrachloride	7.04	117	1525331	8.800	ppbv	99
36) Benzene	6.92	78	1899532	9.677	ppbv	98
37) 1,2-Dichloroethane	6.33	62	1254143	9.354	ppbv	100
38) Trichloroethene	7.87	130	704902	9.214	ppbv	98
39) 1,2-Dichloropropane	7.65	63	754482	9.525	ppbv	98
40) 1,4-Dioxane	7.86	88	295253	10.776	ppbv #	93
41) Tetrahydrofuran	6.06	42	791609	10.382	ppbv	99
42) Bromodichloromethane	7.82	83	1651165	9.733	ppbv	99
43) Methyl Methacrylate	8.04	69	864896	10.398	ppbv	97

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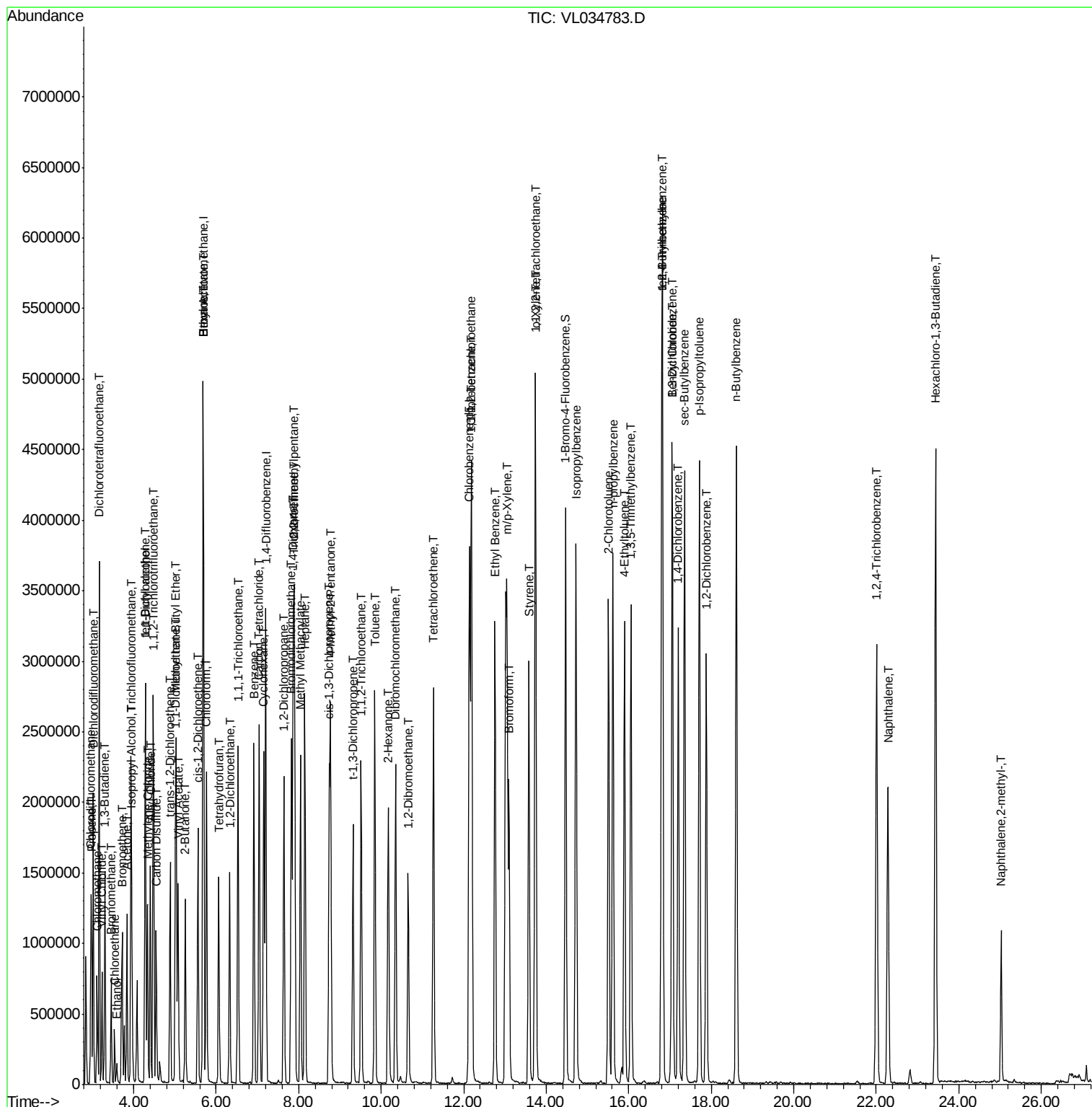
Quant Time: Mar 04 06:45:35 2020
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL030420AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Mar 04 06:36:39 2020
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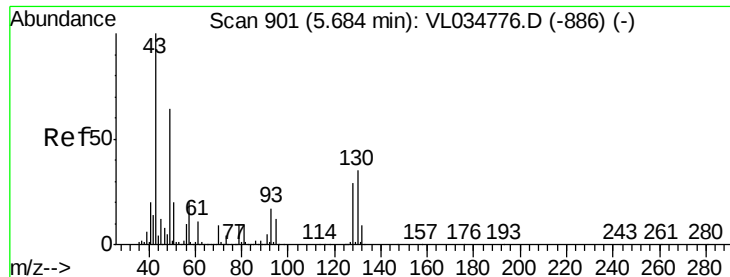
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.89	57	3299861	9.620	ppbv	99
45) t-1,3-Dichloropropene	9.32	75	1042039	11.934	ppbv	97
46) cis-1,3-Dichloropropene	8.74	75	1216088	11.405	ppbv	97
47) 1,1,2-Trichloroethane	9.52	97	784683	9.383	ppbv #	88
48) Dibromochloromethane	10.35	129	1332159	10.187	ppbv	100
49) Bromoform	13.10	173	1168105	10.236	ppbv	99
50) 4-Methyl-2-Pentanone	8.77	43	2147294	10.028	ppbv	100
51) 2-Hexanone	10.17	43	1790233	10.658	ppbv	99
52) Tetrachloroethene	11.27	164	663493	9.149	ppbv	94
53) Toluene	9.84	91	2163384	10.414	ppbv	100
54) 1,2-Dibromoethane	10.66	107	1209055	9.777	ppbv	99
56) 1,1,1,2-Tetrachloroethane	12.17	131	940010	8.988	ppbv #	60
57) Chlorobenzene	12.20	112	1614118	8.952	ppbv	95
58) Ethyl Benzene	12.76	91	2930733	10.075	ppbv	99
59) m/p-Xylene	13.05	91	2576149	10.231	ppbv #	41
60) o-Xylene	13.74	91	2396058	9.405	ppbv	100
61) Styrene	13.58	104	1701496	10.766	ppbv	98
62) Isopropylbenzene	14.72	105	3346781	8.926	ppbv	100
63) 1,1,2,2-Tetrachloroethane	13.73	83	1719679	8.563	ppbv	100
64) n-propylbenzene	15.62	120	428507	4.558	ppbv #	1
65) tert-Butylbenzene	16.80	119	2904228	9.165	ppbv	99
66) Benzyl Chloride	17.05	91	1403347	13.699	ppbv	99
67) sec-Butylbenzene	17.36	105	4188904	9.072	ppbv	99
69) p-Isopropyltoluene	17.72	119	3439178	9.204	ppbv	99
70) n-Butylbenzene	18.61	91	3742838	9.160	ppbv	100
71) 2-Chlorotoluene	15.51	91	2661780	9.399	ppbv	100
72) 4-Ethyltoluene	15.90	105	2698738	9.514	ppbv	97
73) 1,3,5-Trimethylbenzene	16.05	105	2622711	9.639	ppbv	98
74) 1,2,4-Trimethylbenzene	16.82	105	2740841	9.266	ppbv	97
75) 1,3-Dichlorobenzene	17.06	146	1563435	8.929	ppbv	98
76) 1,4-Dichlorobenzene	17.20	146	1561785	9.321	ppbv	99
77) 1,2-Dichlorobenzene	17.88	146	1515925	9.050	ppbv	99
78) Hexachloro-1,3-Butadiene	23.44	225	1204500	8.617	ppbv	100
79) Naphthalene	22.28	128	2618176	11.779	ppbv	98
80) Naphthalene,2-methyl-	25.03	142	592716	11.164	ppbv	99
81) 1,2,4-Trichlorobenzene	22.01	180	1409906	10.034	ppbv	99

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

ALS Vial : 1 Sample Multiplier: 1

Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.68 min Scan# 899

Delta R.T. -0.01 min

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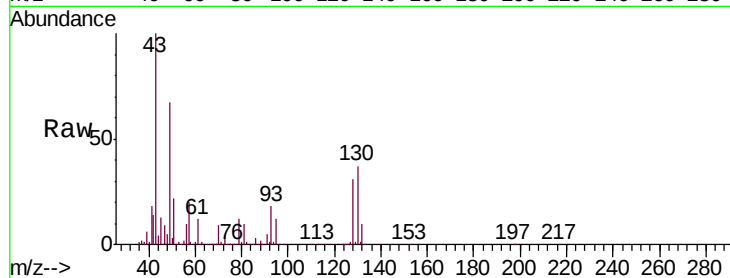
Tgt Ion: 49 Resp: 1096060

Ion Ratio Lower Upper

49 100

128 43.9 21.6 64.6

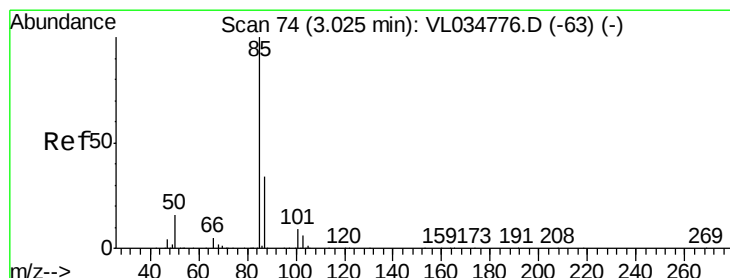
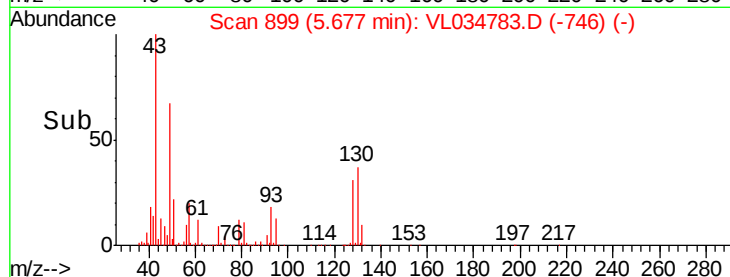
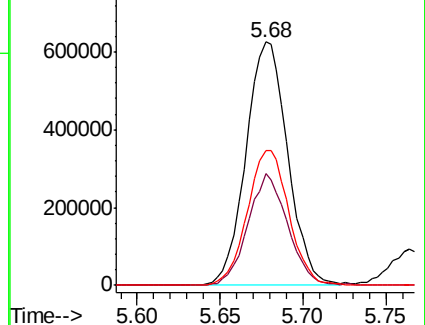
130 55.4 27.4 82.2



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: 7.701 ppbv

RT: 3.02 min Scan# 73

Delta R.T. -0.00 min

Lab File: VL034783.D

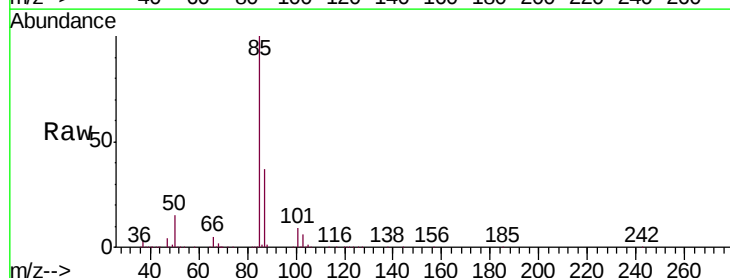
Acq: 4 Mar 2020 5:54

Tgt Ion: 85 Resp: 1377508

Ion Ratio Lower Upper

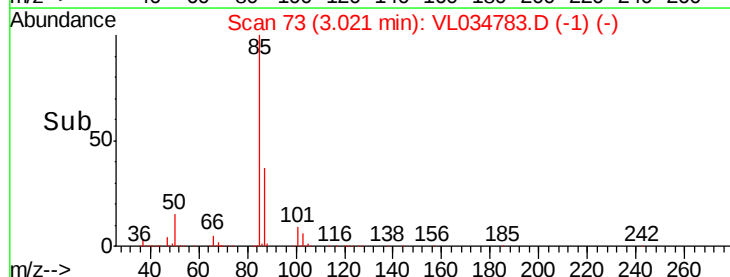
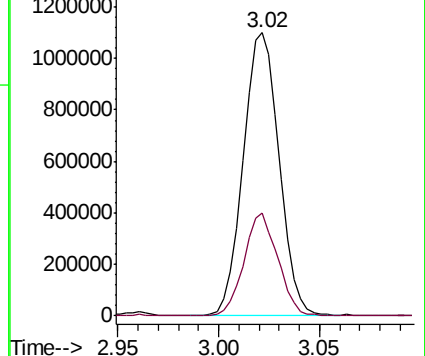
85 100

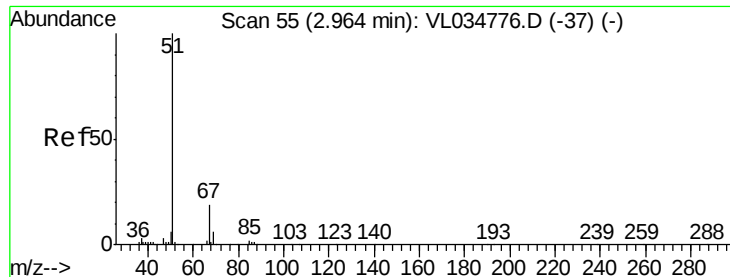
87 36.6 27.2 40.8



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 8.815 ppbv

RT: 2.96 min Scan# 54

Delta R.T. -0.00 min

Lab File: VL034783.D

Acq: 4 Mar 2020 5:54

Instrument :

MSVOA_L

ClientSampleId :

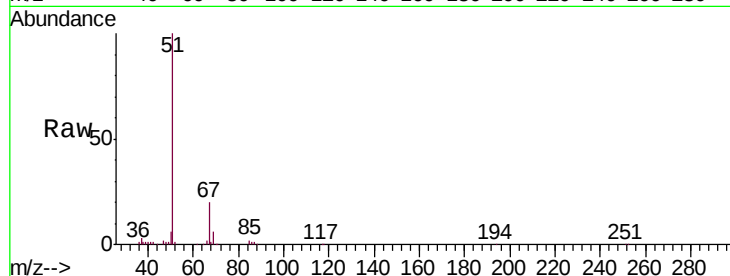
ICVVL030420

Tgt Ion: 51 Resp: 1100694

Ion Ratio Lower Upper

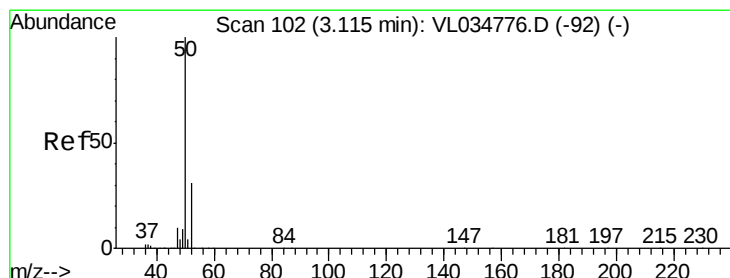
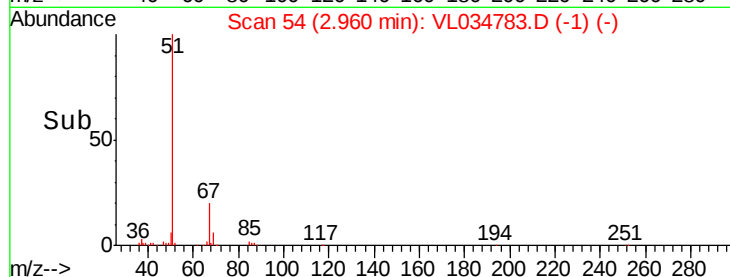
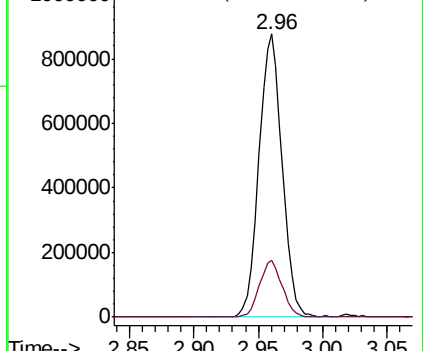
51 100

67 19.7 15.3 22.9



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 9.147 ppbv

RT: 3.11 min Scan# 101

Delta R.T. -0.00 min

Lab File: VL034783.D

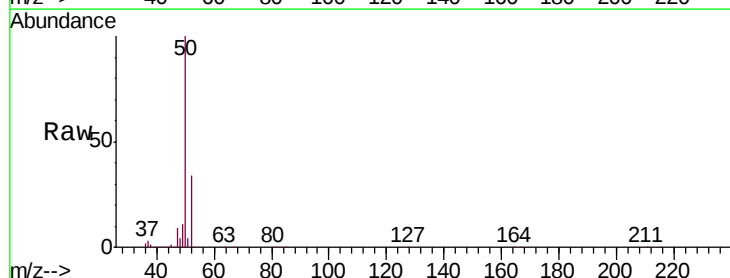
Acq: 4 Mar 2020 5:54

Tgt Ion: 50 Resp: 615196

Ion Ratio Lower Upper

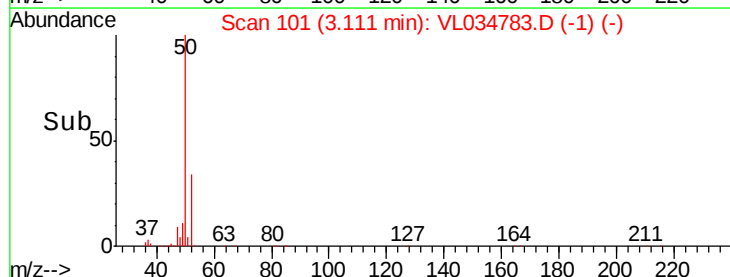
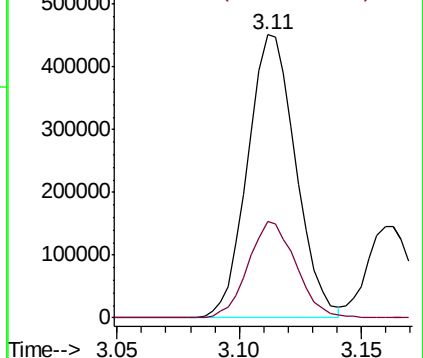
50 100

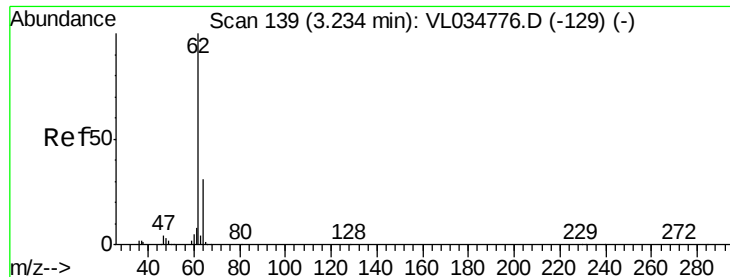
52 34.3 25.0 37.4



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#5

Vinyl Chloride

Concen: 8.637 ppbv

RT: 3.23 min Scan# 138

Delta R.T. -0.00 min

Lab File: VL034783.D

Acq: 4 Mar 2020 5:54

Instrument :

MSVOA_L

ClientSampleId :

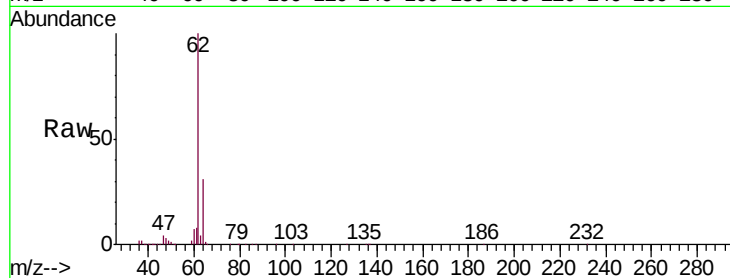
ICVVL030420

Tgt Ion: 62 Resp: 613680

Ion Ratio Lower Upper

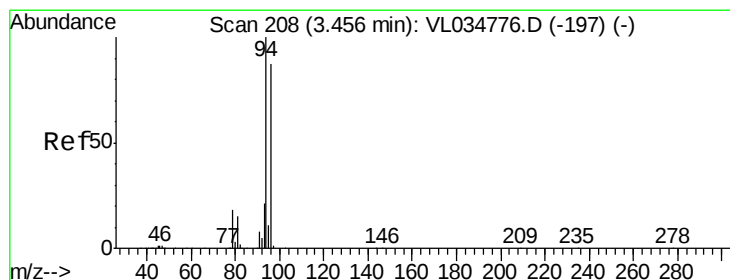
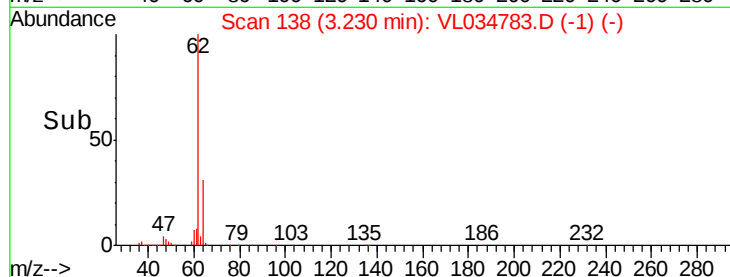
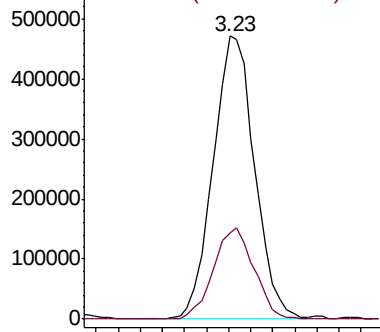
62 100

64 30.6 25.1 37.7



Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 64.10 (63.80 to 64.80): VL0



#6

Bromomethane

Concen: 9.245 ppbv

RT: 3.45 min Scan# 207

Delta R.T. -0.00 min

Lab File: VL034783.D

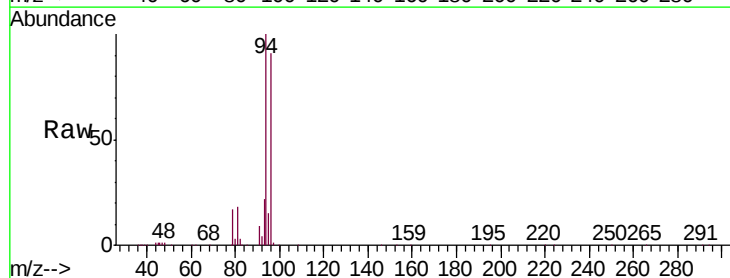
Acq: 4 Mar 2020 5:54

Tgt Ion: 94 Resp: 358520

Ion Ratio Lower Upper

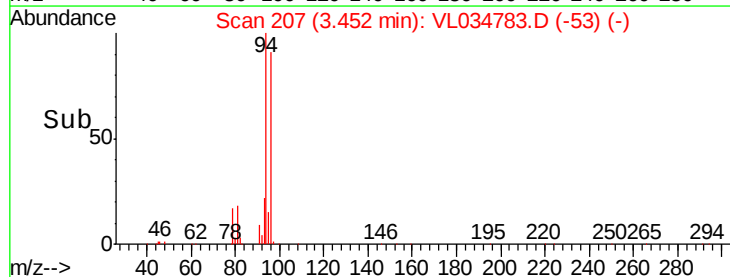
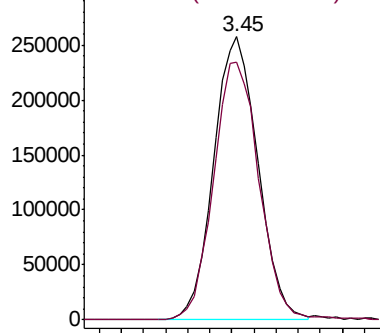
94 100

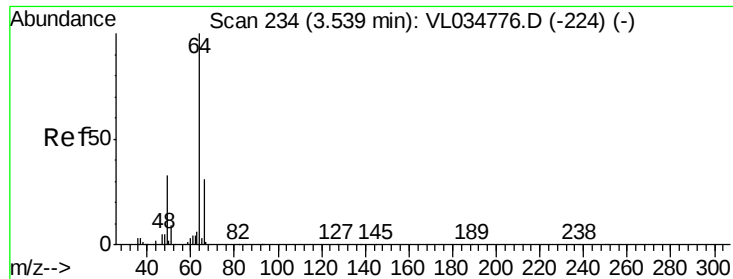
96 91.1 70.0 105.0



Abundance Ion 94.00 (93.70 to 94.70): VL0

Ion 96.00 (95.70 to 96.70): VL0





#7

Chloroethane

Concen: 9.639 ppbv

RT: 3.54 min Scan# 233

Delta R.T. -0.00 min

Lab File: VL034783.D

Acq: 4 Mar 2020 5:54

Instrument :

MSVOA_L

ClientSampleId :

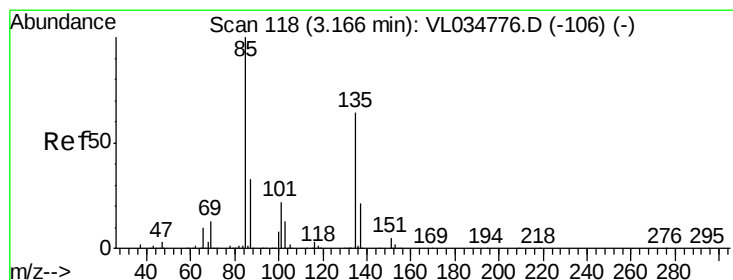
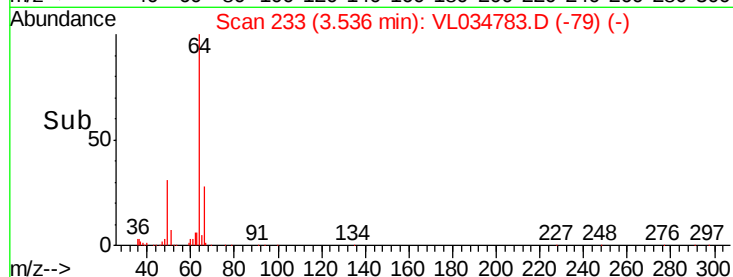
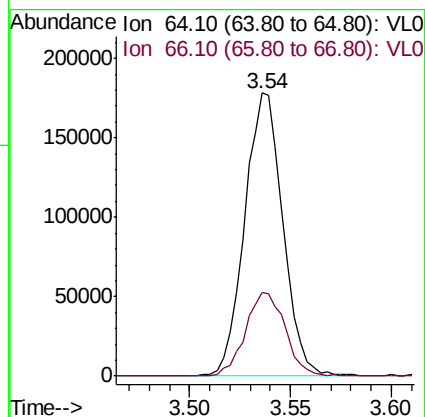
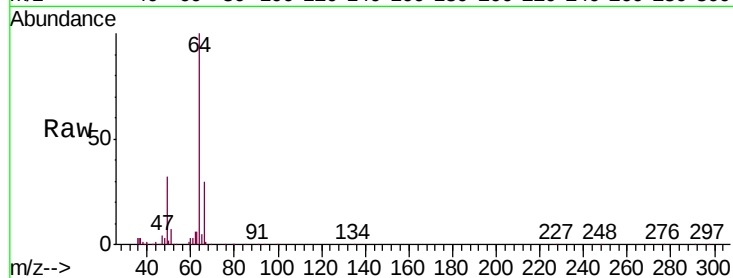
ICVVL030420

Tgt Ion: 64 Resp: 236806

Ion Ratio Lower Upper

64 100

66 29.6 24.8 37.2



#8

Dichlorotetrafluoroethane

Concen: 8.953 ppbv

RT: 3.16 min Scan# 117

Delta R.T. -0.00 min

Lab File: VL034783.D

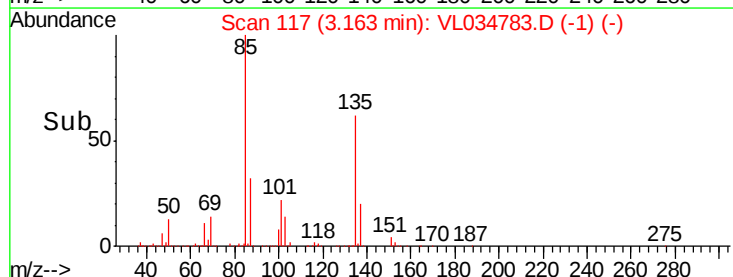
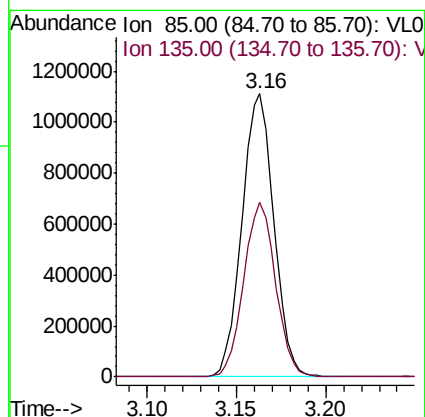
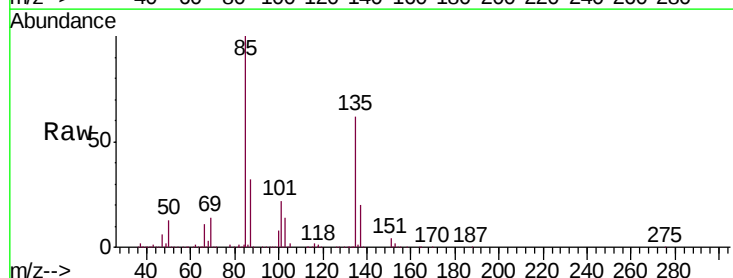
Acq: 4 Mar 2020 5:54

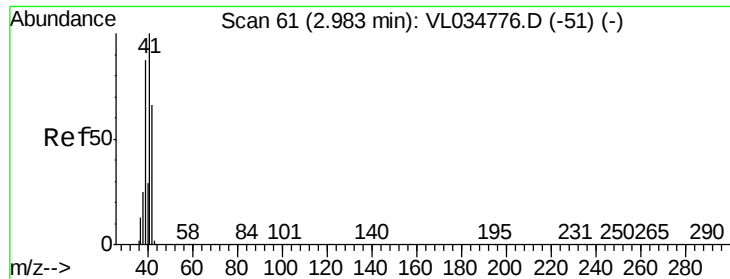
Tgt Ion: 85 Resp: 1391238

Ion Ratio Lower Upper

85 100

135 61.7 49.4 74.2





#9

Propene

Concen: 9.583 ppbv

RT: 2.98 min Scan# 60

Delta R.T. -0.00 min

Lab File: VL034783.D

Acq: 4 Mar 2020 5:54

Instrument :

MSVOA_L

ClientSampleId :

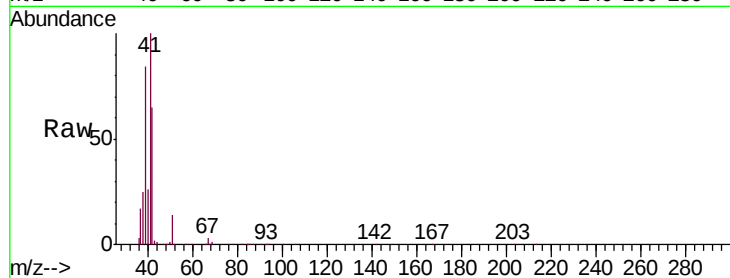
ICVVL030420

Tgt Ion: 41 Resp: 471010

Ion Ratio Lower Upper

41 100

42 68.8 55.6 83.4



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0

2.98

400000

300000

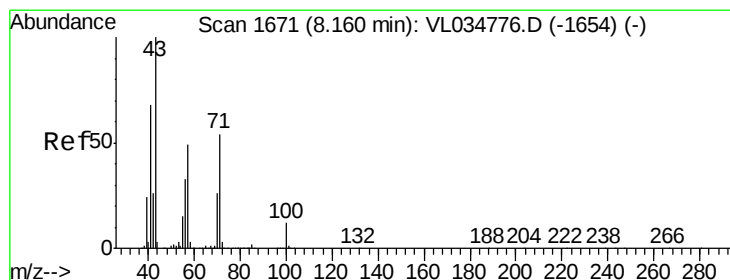
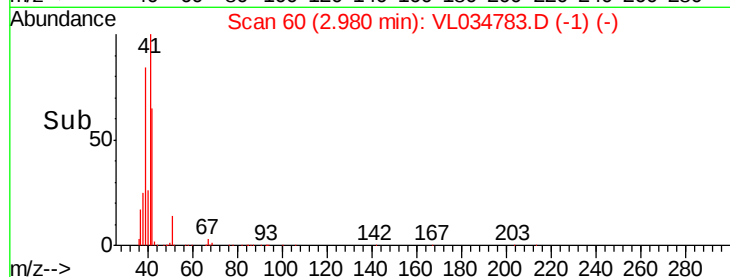
200000

100000

0

2.95 3.00

Time-->



#10

Heptane

Concen: 9.926 ppbv

RT: 8.15 min Scan# 1669

Delta R.T. -0.01 min

Lab File: VL034783.D

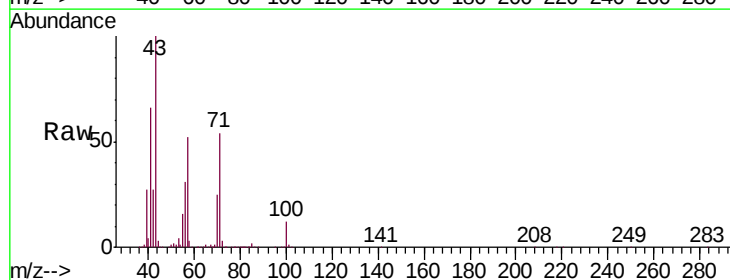
Acq: 4 Mar 2020 5:54

Tgt Ion: 43 Resp: 1239929

Ion Ratio Lower Upper

43 100

57 52.8 40.5 60.7



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 57.10 (56.80 to 57.80): VL0

8.15

600000

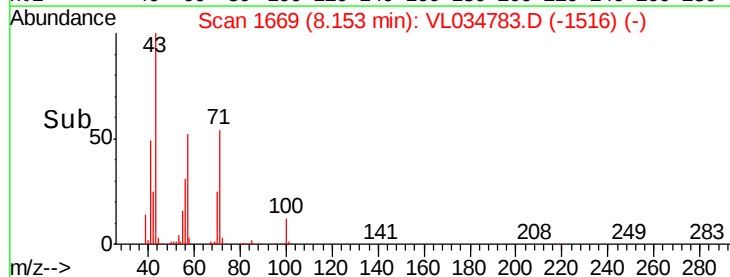
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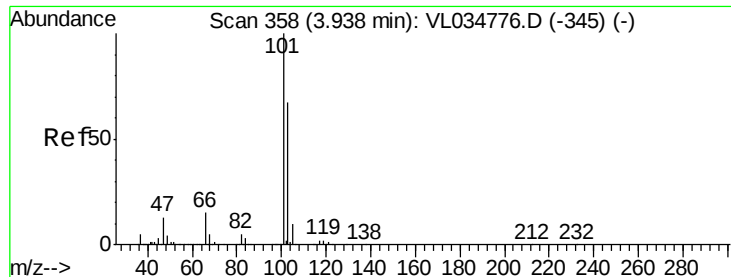
200000

0

8.10 8.15 8.20

Time-->





#11

Trichlorofluoromethane

Concen: 8.913 ppbv

RT: 3.93 min Scan# 357

Delta R.T. -0.00 min

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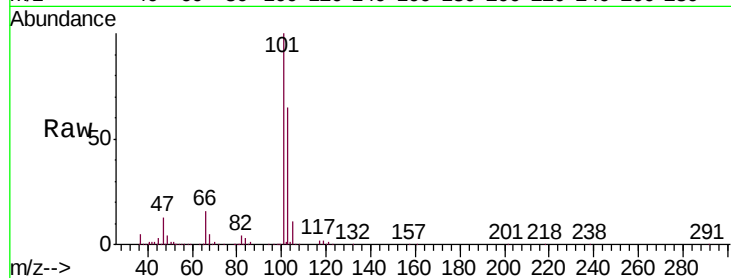
ICVVL030420

Tgt Ion:101 Resp: 1426594

Ion Ratio Lower Upper

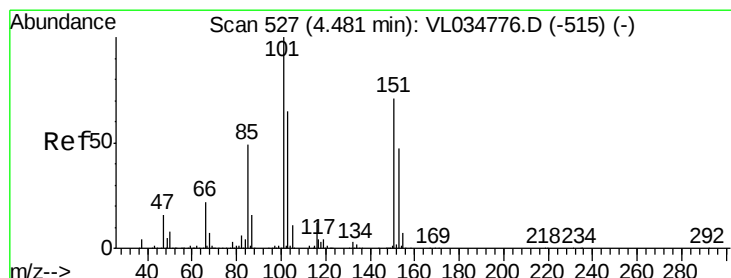
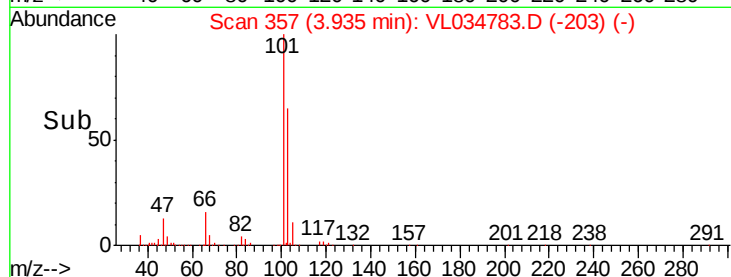
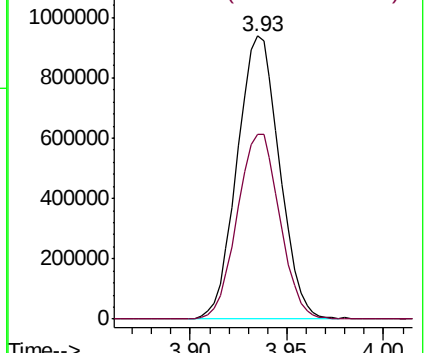
101 100

103 65.2 53.6 80.4



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: 8.816 ppbv

RT: 4.48 min Scan# 526

Delta R.T. -0.00 min

Lab File: VL034783.D

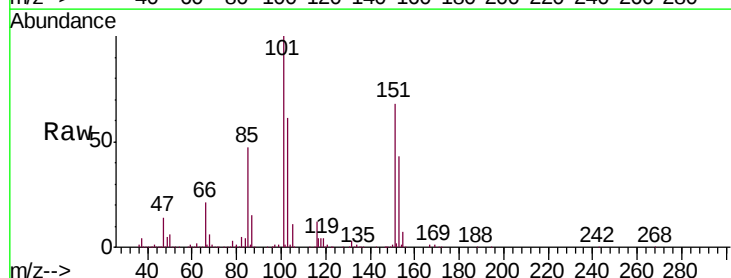
Acq: 4 Mar 2020 5:54

Tgt Ion:101 Resp: 973542

Ion Ratio Lower Upper

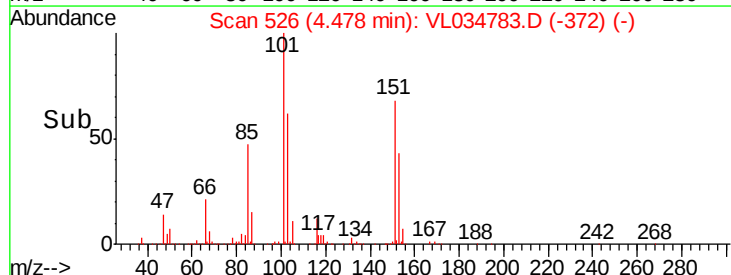
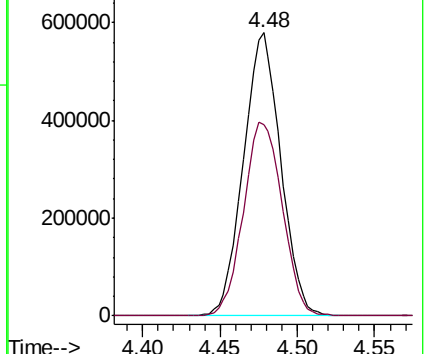
101 100

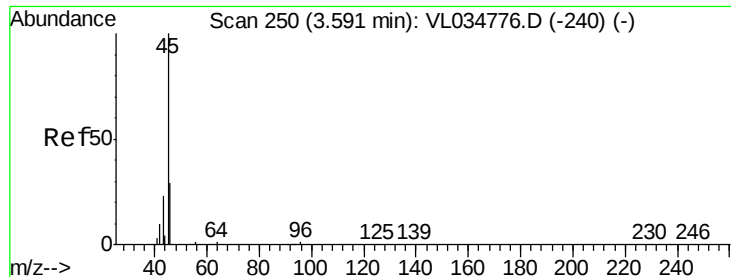
151 71.3 56.6 85.0



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 151.00 (150.70 to 151.70): V





#13

Ethanol

Concen: 7.680 ppbv

RT: 3.59 min Scan# 249

Delta R.T. -0.00 min

Lab File: VL034783.D

Acq: 4 Mar 2020 5:54

Instrument :

MSVOA_L

ClientSampleId :

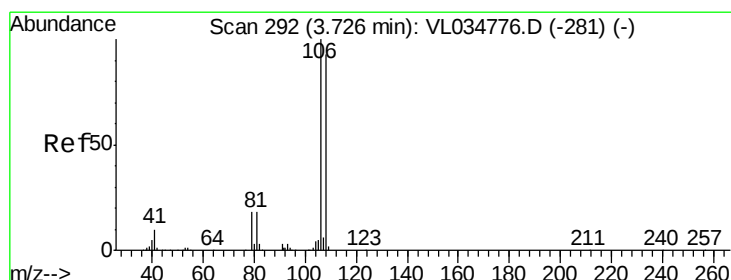
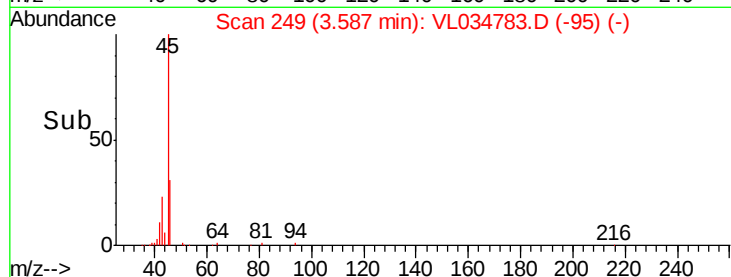
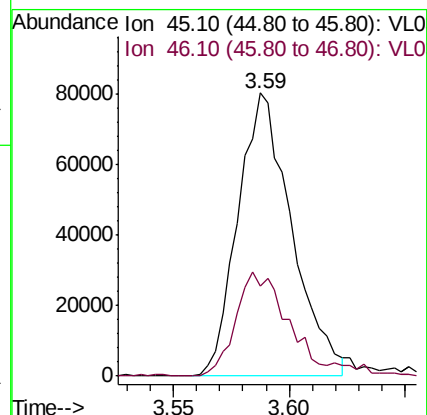
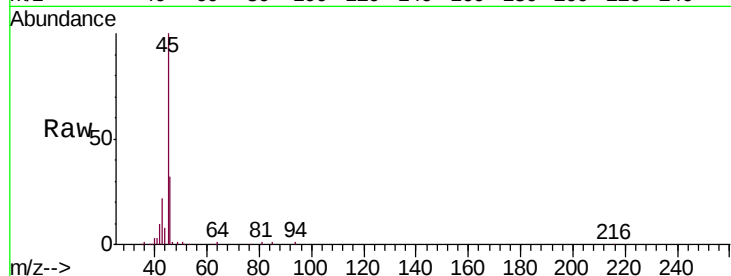
ICVVL030420

Tgt Ion: 45 Resp: 129333

Ion Ratio Lower Upper

45 100

46 37.8 14.7 58.9



#14

Bromoethene

Concen: 9.593 ppbv

RT: 3.72 min Scan# 291

Delta R.T. -0.00 min

Lab File: VL034783.D

Acq: 4 Mar 2020 5:54

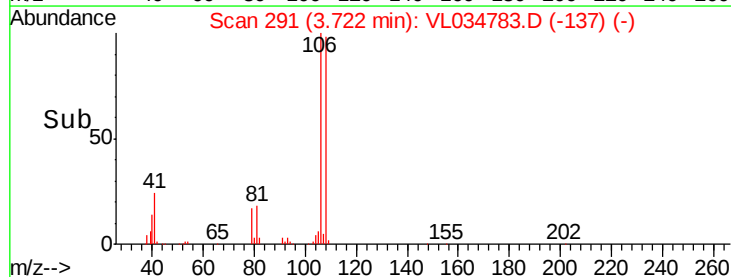
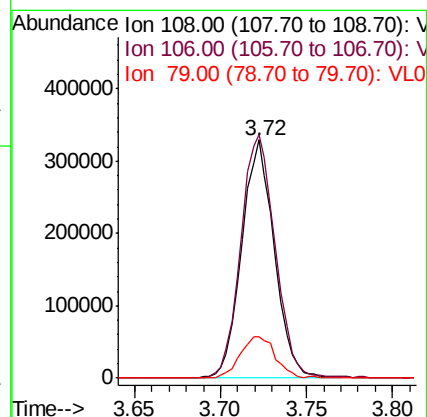
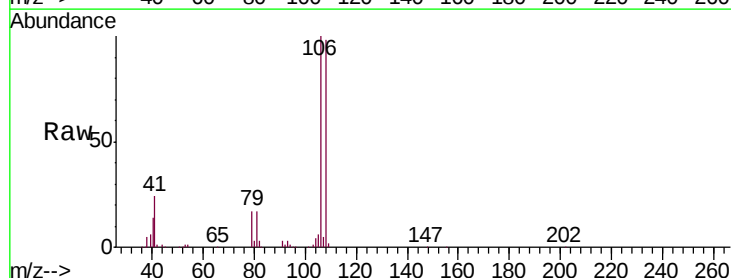
Tgt Ion: 108 Resp: 434717

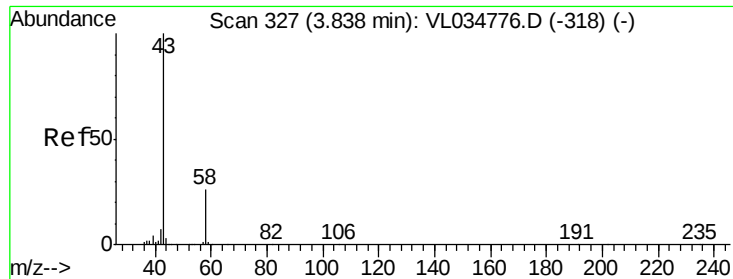
Ion Ratio Lower Upper

108 100

106 108.3 83.5 125.3

79 19.2 15.6 23.4





#15

Acetone

Concen: 8.626 ppbv

RT: 3.83 min Scan# 326

Delta R.T. -0.00 min

Lab File: VL034783.D

Acq: 4 Mar 2020 5:54

Instrument :

MSVOA_L

ClientSampleId :

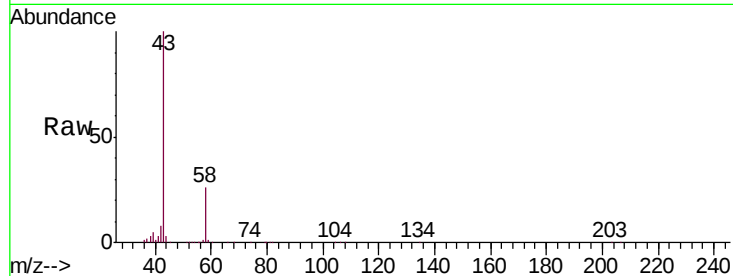
ICVVL030420

Tgt Ion: 43 Resp: 1132155

Ion Ratio Lower Upper

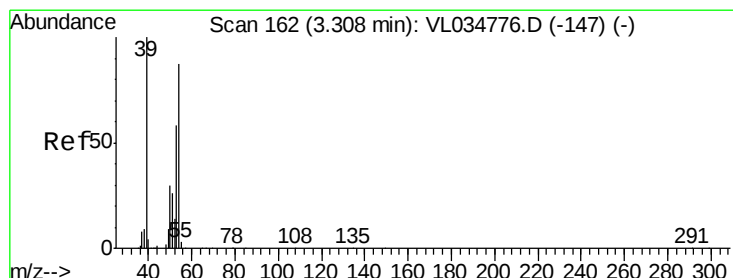
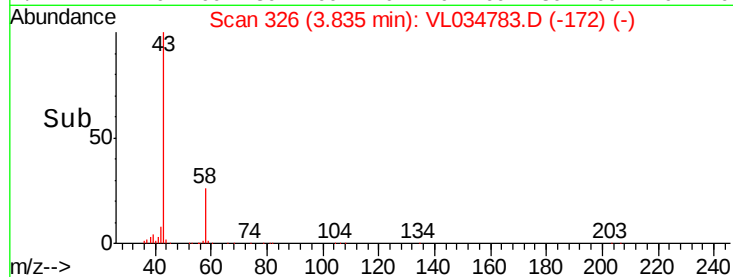
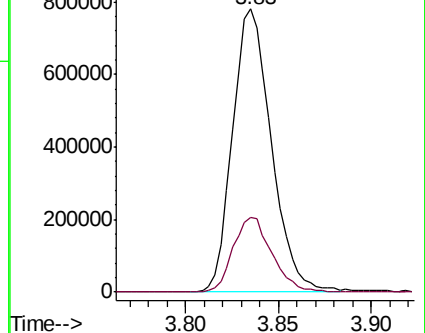
43 100

58 26.5 21.0 31.6



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0



#16

1,3-Butadiene

Concen: 9.643 ppbv

RT: 3.30 min Scan# 161

Delta R.T. -0.00 min

Lab File: VL034783.D

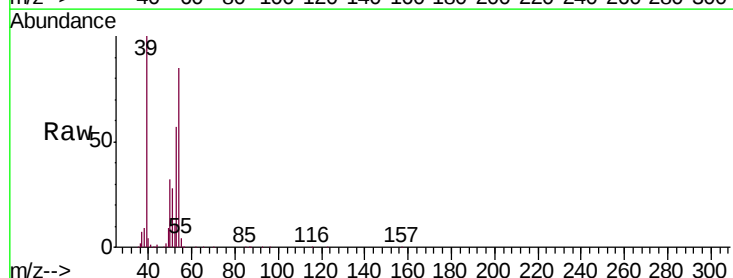
Acq: 4 Mar 2020 5:54

Tgt Ion: 39 Resp: 572670

Ion Ratio Lower Upper

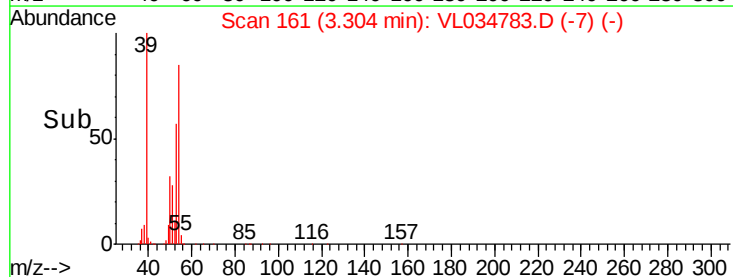
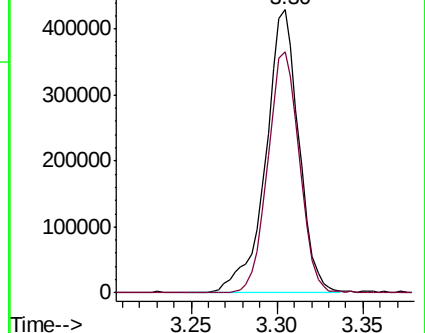
39 100

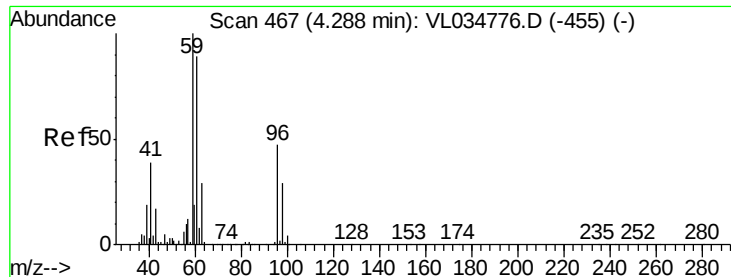
54 81.3 64.2 96.2



Abundance Ion 39.10 (38.80 to 39.80): VL0

Ion 54.10 (53.80 to 54.80): VL0



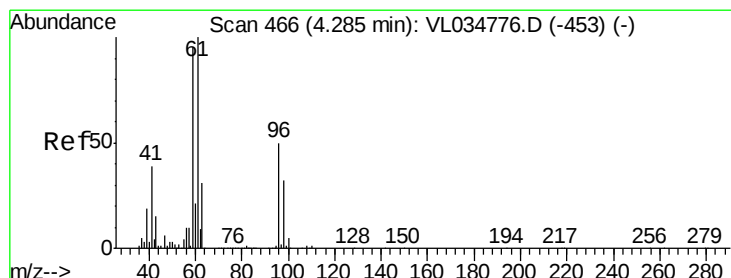
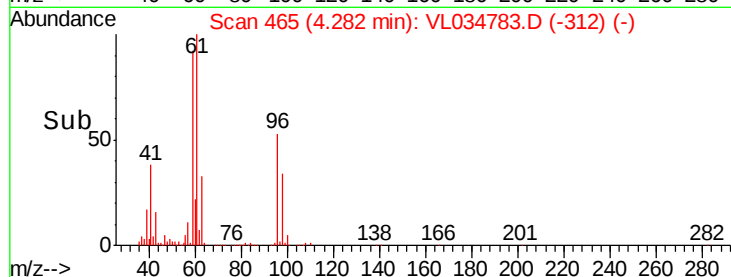
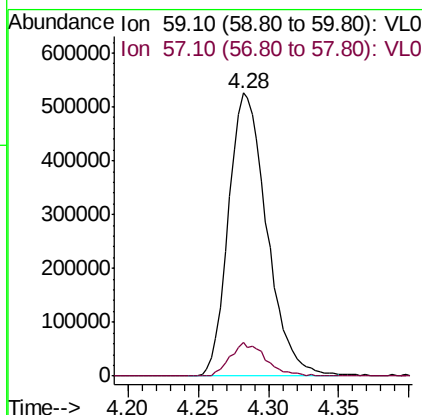
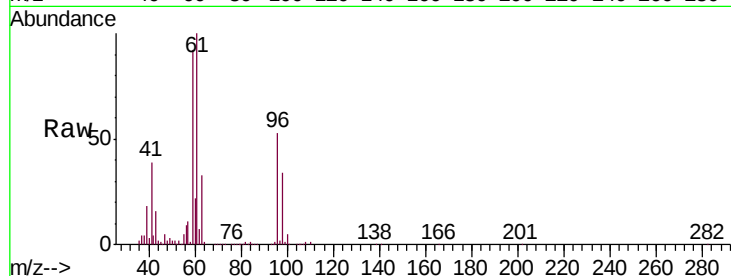


#17

tert-Butyl alcohol
Concen: 9.683 ppbv
RT: 4.28 min Scan# 465
Delta R.T. -0.01 min
Lab File: VL034783.D
Acq: 4 Mar 2020 5:54

Instrument :
MSVOA_L
ClientSampleId :
ICVVL030420

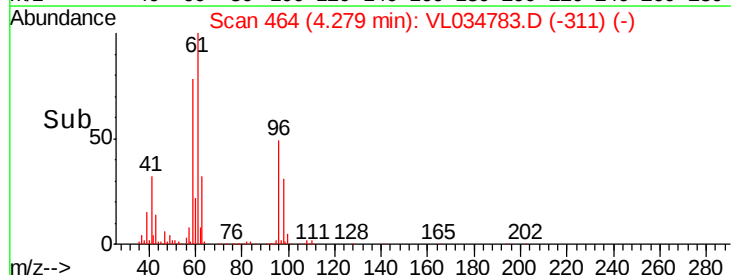
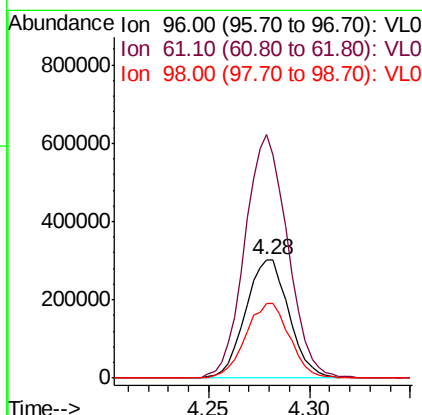
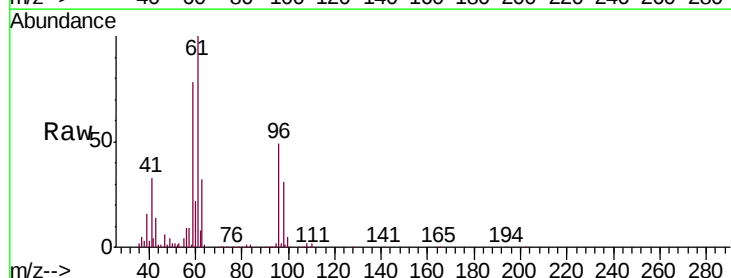
Tgt Ion: 59 Resp: 1002152
Ion Ratio Lower Upper
59 100
57 11.1 8.6 13.0

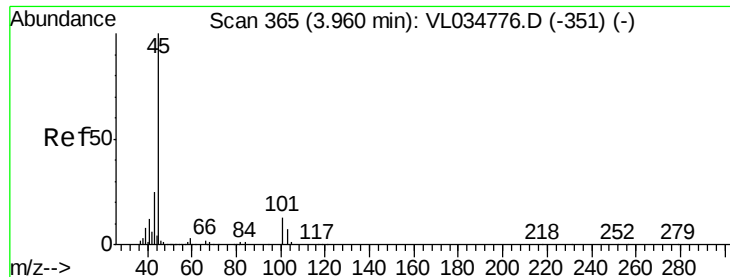


#18

1,1-Dichloroethene
Concen: 9.384 ppbv
RT: 4.28 min Scan# 464
Delta R.T. -0.01 min
Lab File: VL034783.D
Acq: 4 Mar 2020 5:54

Tgt Ion: 96 Resp: 457060
Ion Ratio Lower Upper
96 100
61 206.0 159.5 239.3
98 63.4 51.1 76.7





#19

Isopropyl Alcohol

Concen: 10.110 ppbv

RT: 3.96 min Scan# 364

Delta R.T. -0.00 min

Lab File: VL034783.D

Acq: 4 Mar 2020 5:54

Instrument :

MSVOA_L

ClientSampleId :

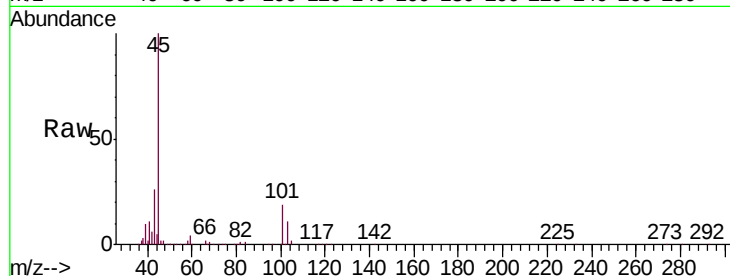
ICVVL030420

Tgt Ion: 45 Resp: 795109

Ion Ratio Lower Upper

45 100

58 2.4 1.8 2.8



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

3.96

400000

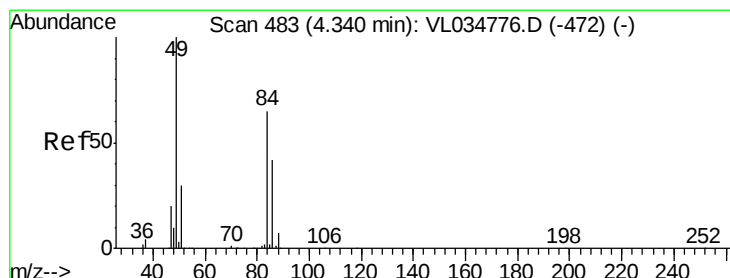
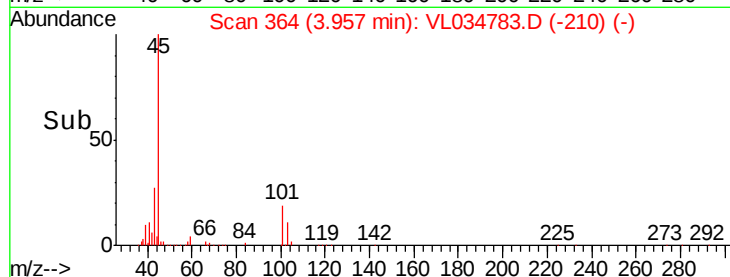
300000

200000

100000

0

Time-->



#20

Methylene Chloride

Concen: 8.698 ppbv

RT: 4.33 min Scan# 481

Delta R.T. -0.01 min

Lab File: VL034783.D

Acq: 4 Mar 2020 5:54

Tgt Ion: 84 Resp: 407448

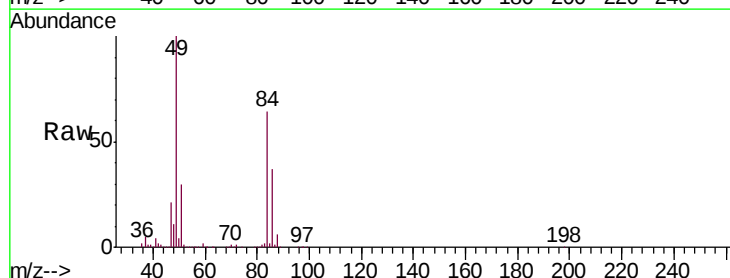
Ion Ratio Lower Upper

84 100

49 155.7 123.2 184.8

51 46.3 37.4 56.2

86 57.8 51.6 77.4



Abundance Ion 84.00 (83.70 to 84.70): VL0

Ion 49.10 (48.80 to 49.80): VL0

Ion 51.10 (50.80 to 51.80): VL0

Ion 86.00 (85.70 to 86.70): VL0

600000

500000

400000

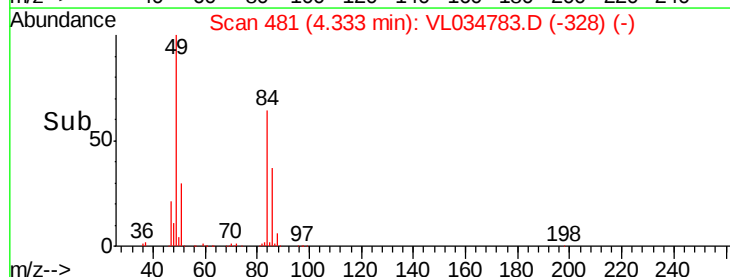
300000

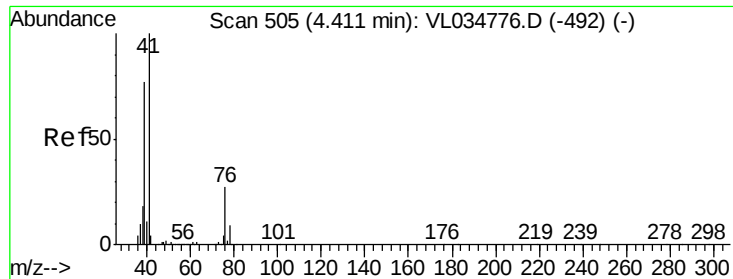
200000

100000

0

Time-->

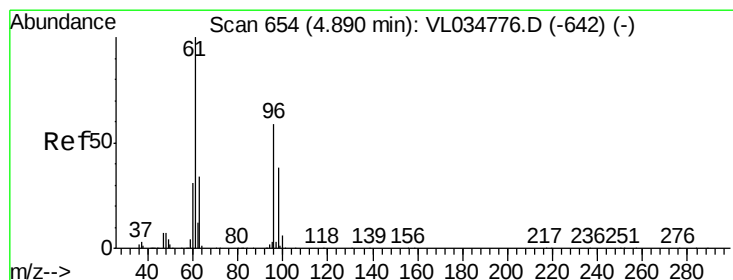
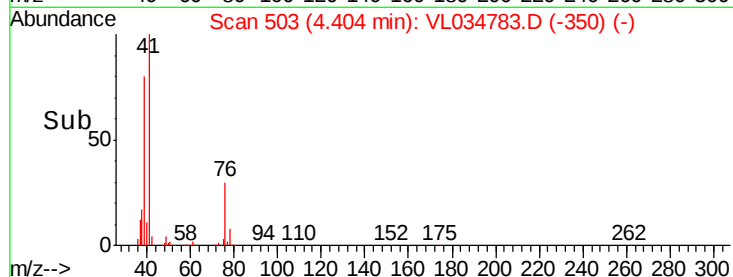
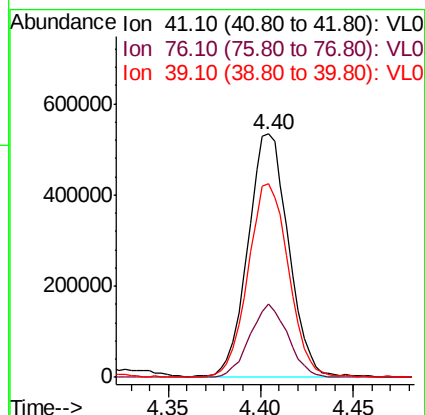
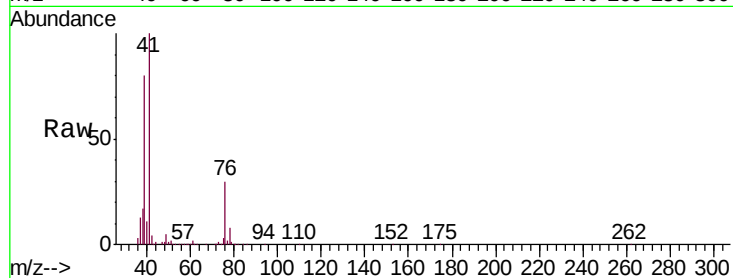




#21
 Allyl Chloride
 Concen: 9.664 ppbv
 RT: 4.40 min Scan# 503
 Delta R.T. -0.01 min
 Lab File: VL034783.D
 Acq: 4 Mar 2020 5:54

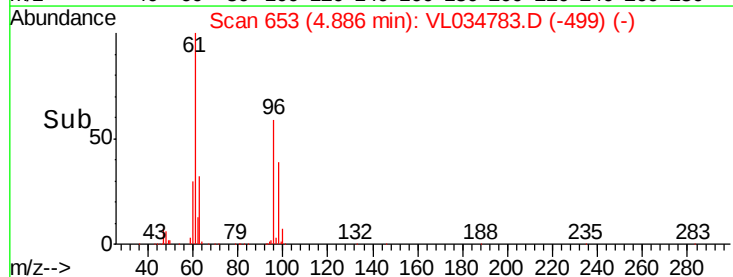
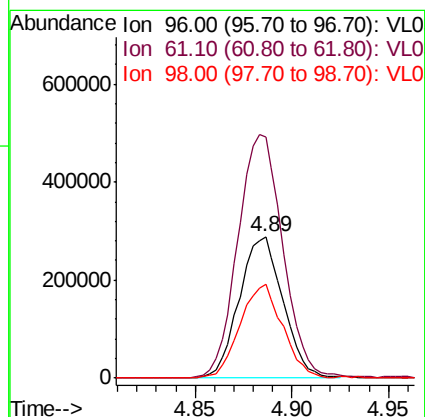
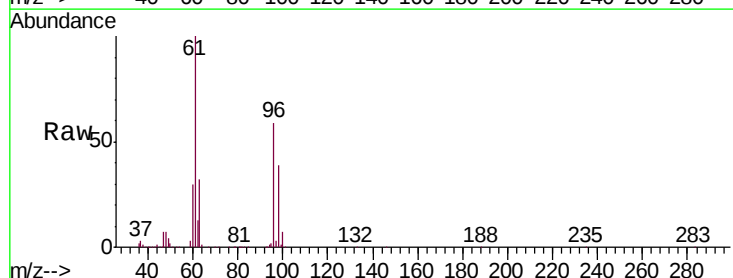
Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL030420

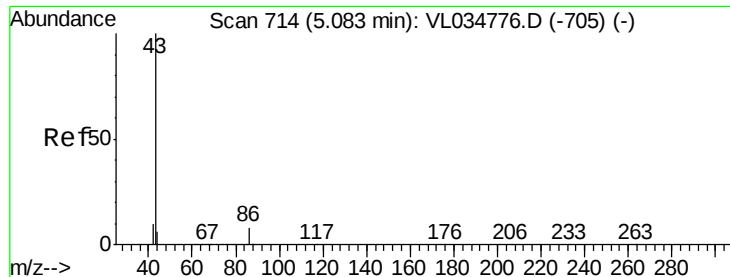
Tgt Ion: 41 Resp: 803244
 Ion Ratio Lower Upper
 41 100
 76 28.6 22.5 33.7
 39 80.5 65.0 97.6



#22
 trans-1,2-Dichloroethene
 Concen: 9.599 ppbv
 RT: 4.89 min Scan# 653
 Delta R.T. -0.00 min
 Lab File: VL034783.D
 Acq: 4 Mar 2020 5:54

Tgt Ion: 96 Resp: 456383
 Ion Ratio Lower Upper
 96 100
 61 169.9 135.2 202.8
 98 66.1 50.8 76.2





#23

Vinyl Acetate

Concen: 10.189 ppbv

RT: 5.08 min Scan# 712

Delta R.T. -0.01 min

Lab File: VL034783.D

Acq: 4 Mar 2020 5:54

Instrument :

MSVOA_L

ClientSampleId :

ICVVL030420

Tgt Ion: 43 Resp: 1793254

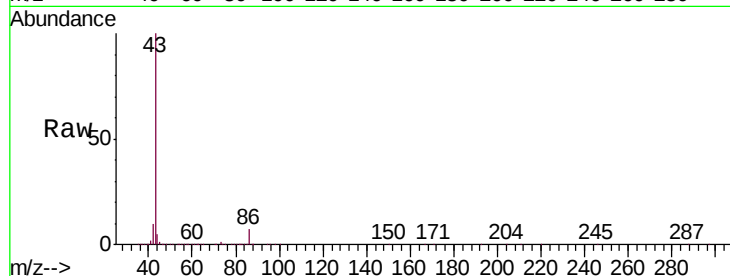
Ion Ratio Lower Upper

43 100

86 7.0 5.9 8.9

42 10.1 8.2 12.2

44 5.2 4.5 6.7

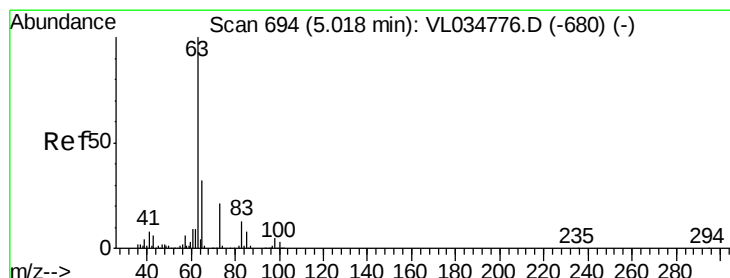
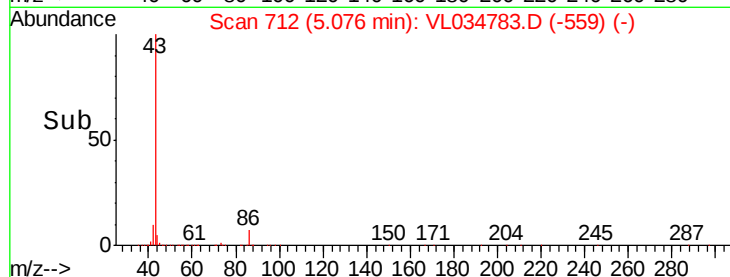
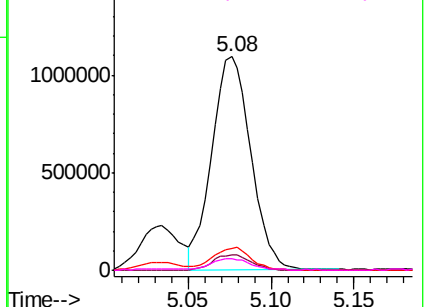


Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 86.10 (85.80 to 86.80): VL0

Ion 42.10 (41.80 to 42.80): VL0

Ion 44.10 (43.80 to 44.80): VL0



#24

1,1-Dichloroethane

Concen: 9.382 ppbv

RT: 5.01 min Scan# 691

Delta R.T. -0.01 min

Lab File: VL034783.D

Acq: 4 Mar 2020 5:54

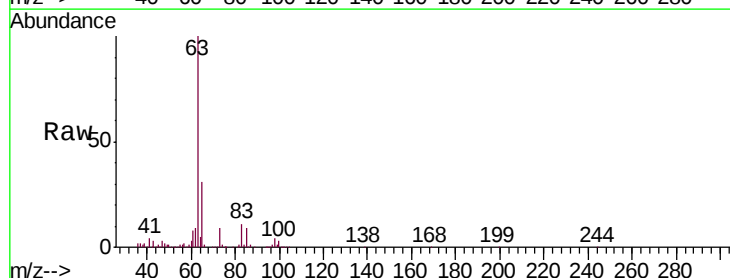
Tgt Ion: 63 Resp: 1281586

Ion Ratio Lower Upper

63 100

98 3.5 2.3 6.8

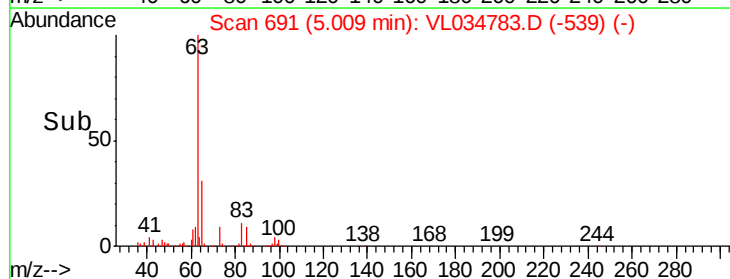
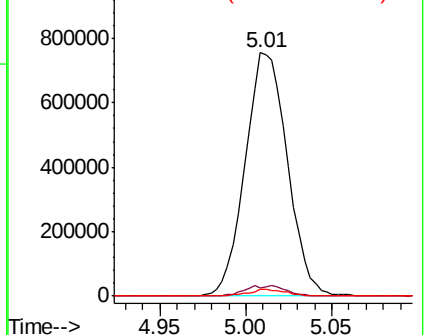
100 2.9 1.5 4.4

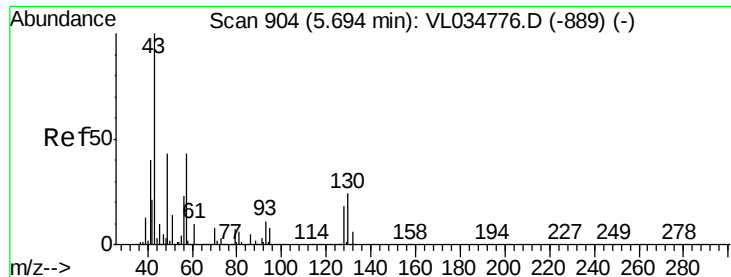


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

Ion 100.00 (99.70 to 100.70): VL0





#25

Ethyl Acetate

Concen: 9.540 ppbv

RT: 5.68 min Scan# 901

Delta R.T. -0.01 min

Lab File: VL034783.D

Acq: 4 Mar 2020 5:54

Instrument :

MSVOA_L

ClientSampleId :

ICVVL030420

Tgt Ion: 43 Resp: 2163708

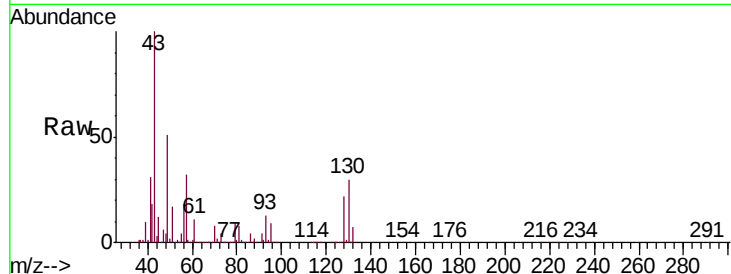
Ion Ratio Lower Upper

43 100

45 10.2 8.2 12.4

61 9.4 7.5 11.3

70 7.4 6.0 9.0

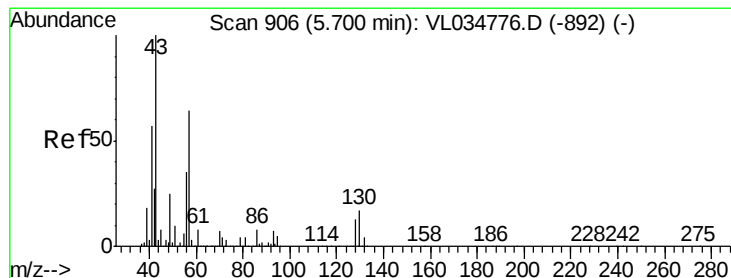
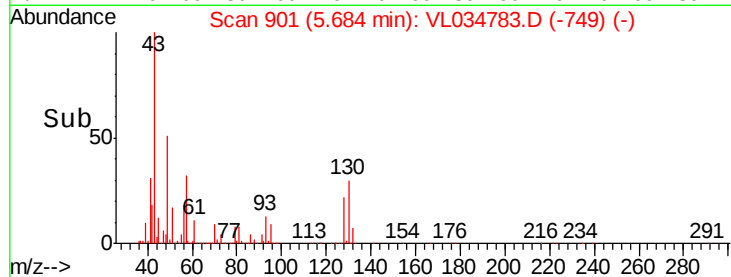
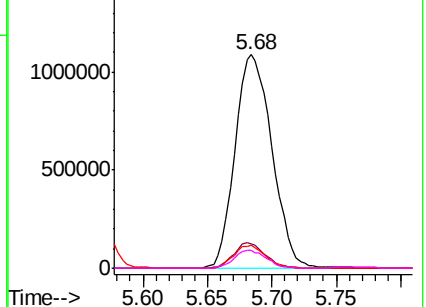


Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 45.10 (44.80 to 45.80): VL0

Ion 61.10 (60.80 to 61.80): VL0

Ion 70.10 (69.80 to 70.80): VL0



#26

Hexane

Concen: 9.671 ppbv

RT: 5.69 min Scan# 904

Delta R.T. -0.01 min

Lab File: VL034783.D

Acq: 4 Mar 2020 5:54

Tgt Ion: 57 Resp: 958222

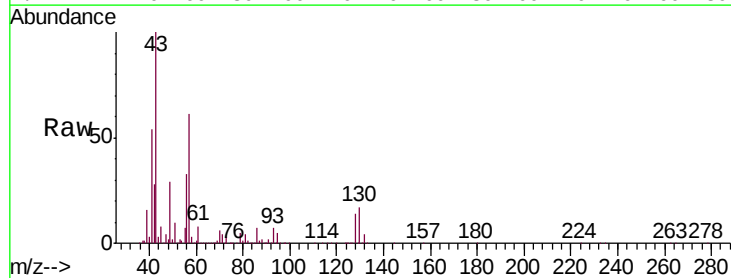
Ion Ratio Lower Upper

57 100

41 90.7 72.0 108.0

43 226.0 179.1 268.7

56 53.4 42.6 63.8

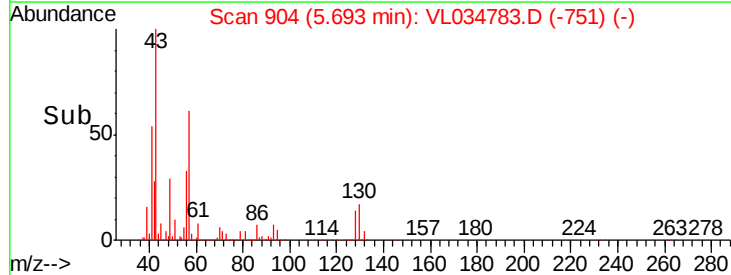
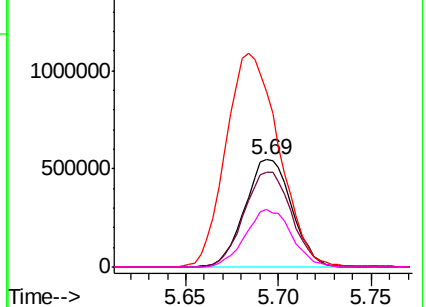


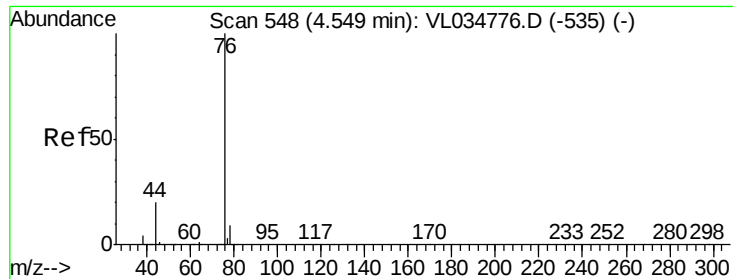
Abundance Ion 57.10 (56.80 to 57.80): VL0

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: 10.321 ppbv

RT: 4.55 min Scan# 547

Delta R.T. -0.00 min

Lab File: VL034783.D

Acq: 4 Mar 2020 5:54

Instrument :

MSVOA_L

ClientSampleId :

ICVVL030420

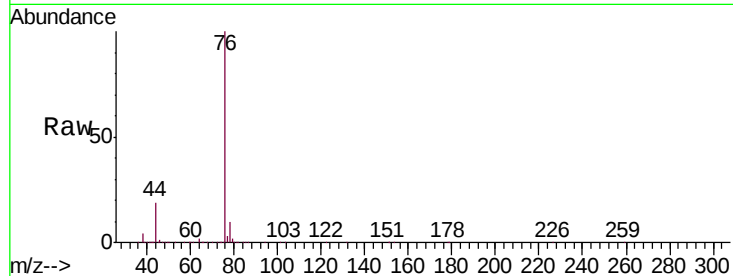
Tgt Ion: 76 Resp: 1194725

Ion Ratio Lower Upper

76 100

44 20.4 16.1 24.1

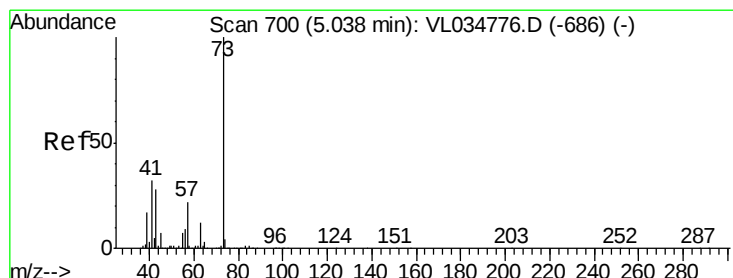
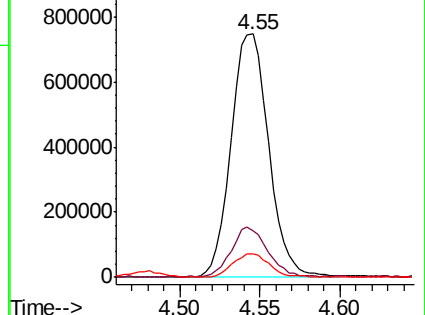
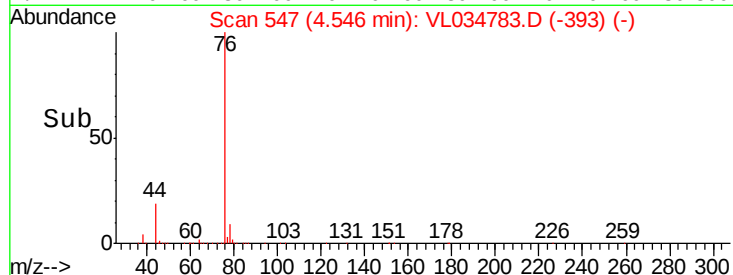
78 9.3 7.5 11.3



Abundance Ion 76.00 (75.70 to 76.70): VL0

Ion 44.10 (43.80 to 44.80): VL0

Ion 78.00 (77.70 to 78.70): VL0



#28

Methyl tert-Butyl Ether

Concen: 9.642 ppbv

RT: 5.03 min Scan# 699

Delta R.T. -0.00 min

Lab File: VL034783.D

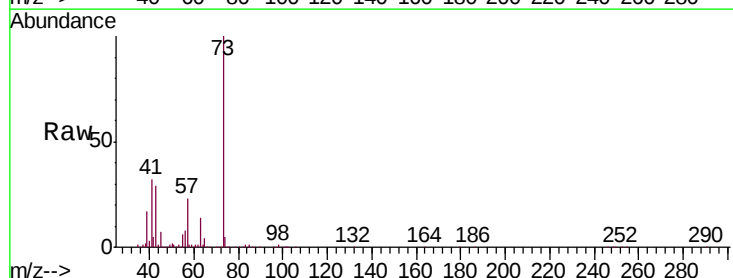
Acq: 4 Mar 2020 5:54

Tgt Ion: 73 Resp: 1422075

Ion Ratio Lower Upper

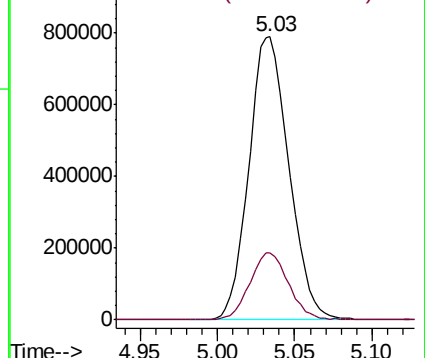
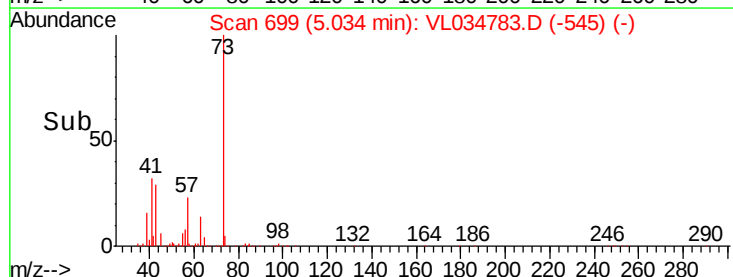
73 100

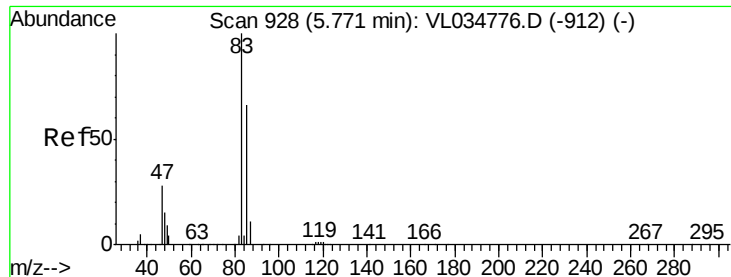
57 23.1 18.5 27.7



Abundance Ion 73.10 (72.80 to 73.80): VL0

Ion 57.10 (56.80 to 57.80): VL0

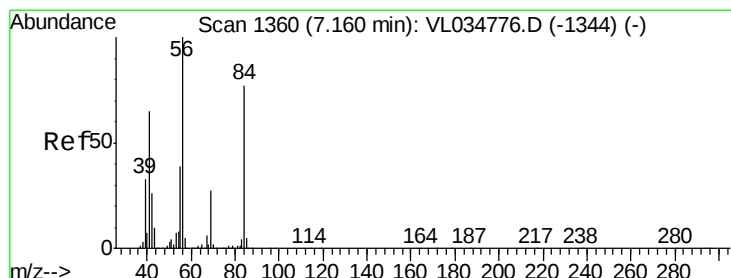
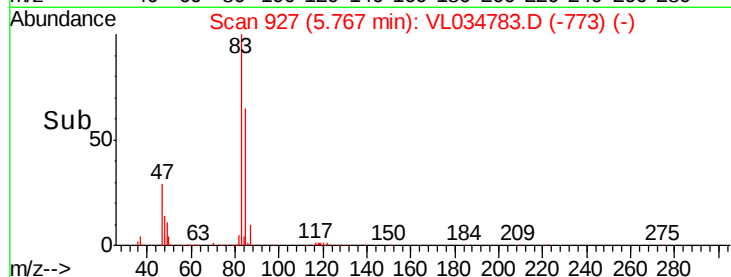
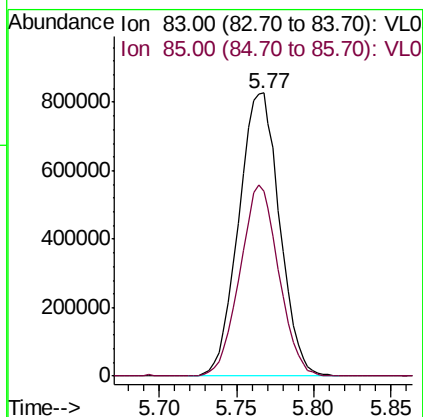
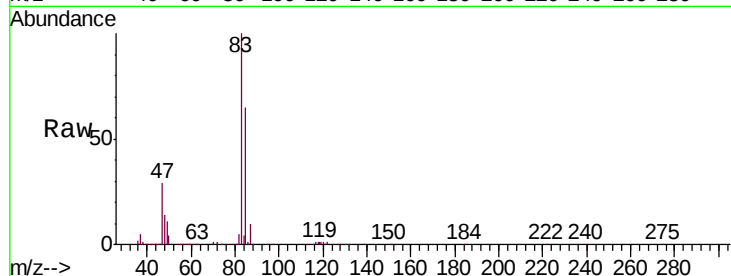




#29
Chloroform
Concen: 9.126 ppbv
RT: 5.77 min Scan# 927
Delta R.T. -0.00 min
Lab File: VL034783.D
Acq: 4 Mar 2020 5:54

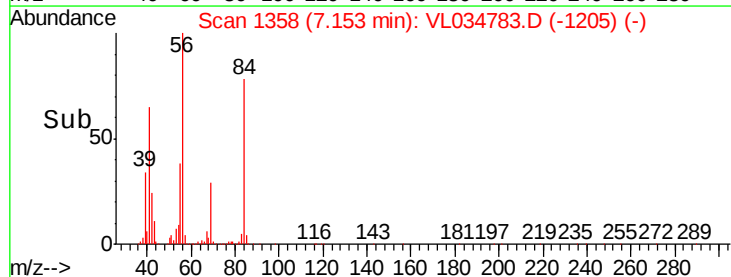
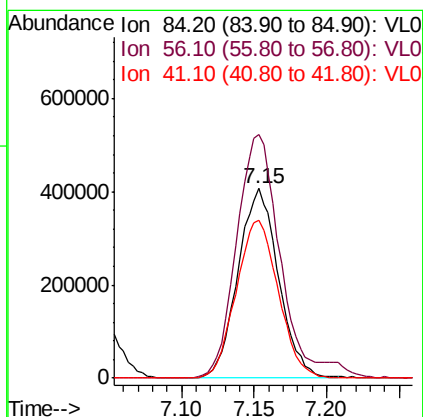
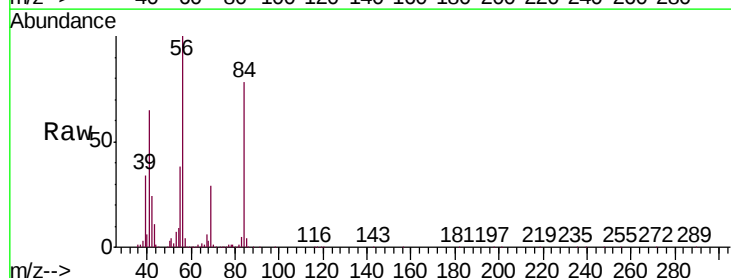
Instrument :
MSVOA_L
ClientSampleId :
ICVVL030420

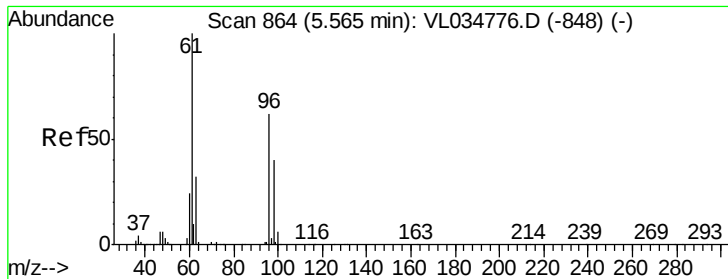
Tgt Ion: 83 Resp: 1522135
Ion Ratio Lower Upper
83 100
85 65.1 53.0 79.4



#30
Cyclohexane
Concen: 10.443 ppbv
RT: 7.15 min Scan# 1358
Delta R.T. -0.01 min
Lab File: VL034783.D
Acq: 4 Mar 2020 5:54

Tgt Ion: 84 Resp: 791618
Ion Ratio Lower Upper
84 100
56 140.3 113.2 169.8
41 86.3 70.2 105.4



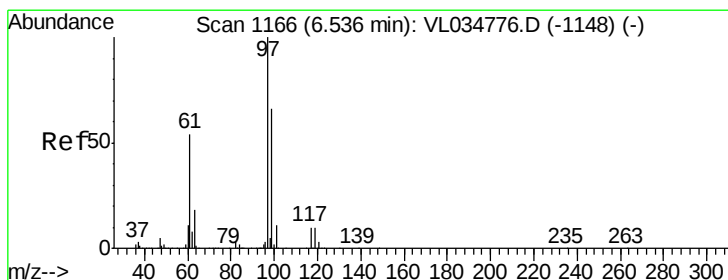
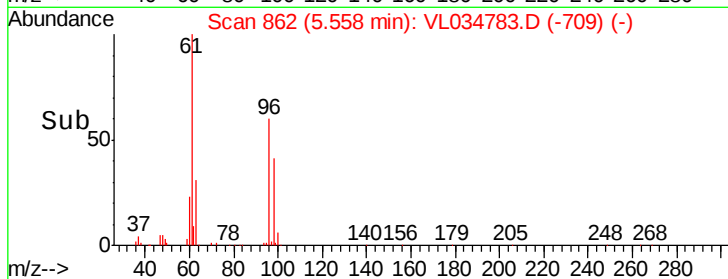
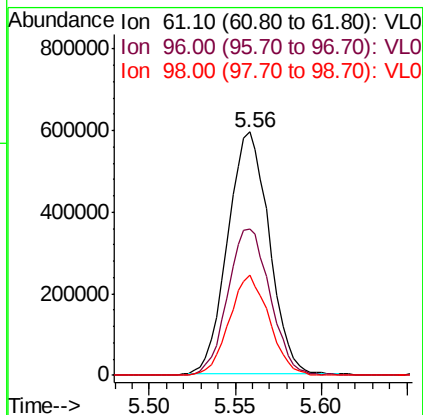
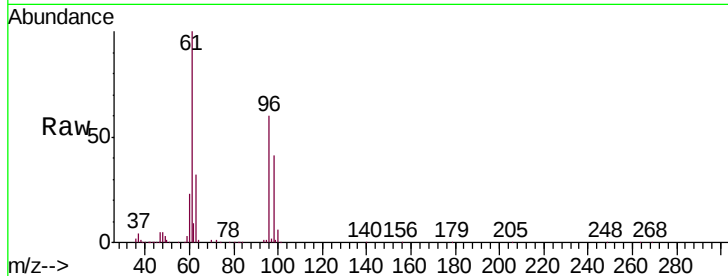


#31

cis-1,2-Dichloroethene
 Concen: 9.794 ppbv
 RT: 5.56 min Scan# 862
 Delta R.T. -0.01 min
 Lab File: VL034783.D
 Acq: 4 Mar 2020 5:54

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL030420

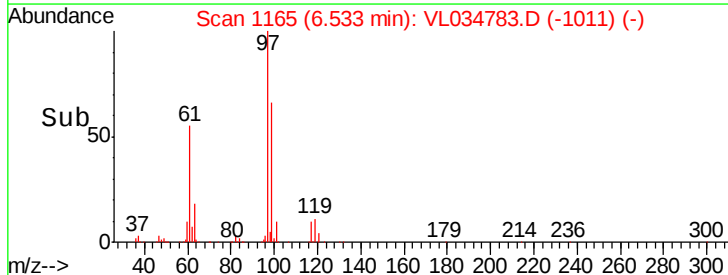
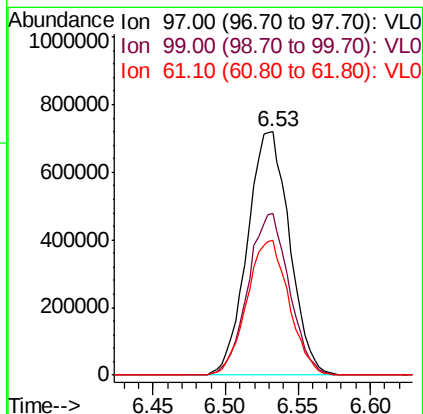
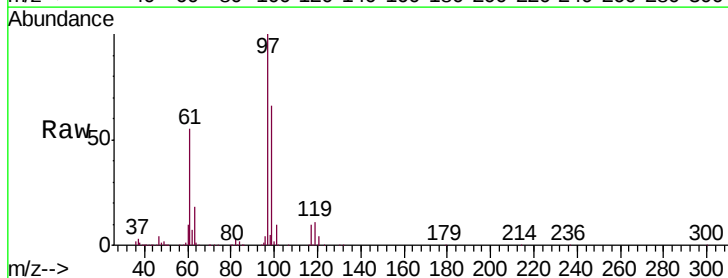
Tgt Ion	Ratio	Lower	Upper
61	100		
96	60.1	49.7	74.5
98	41.3	31.9	47.9

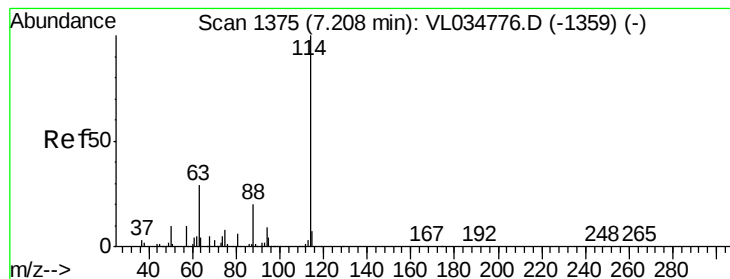


#32

1,1,1-Trichloroethane
 Concen: 8.833 ppbv
 RT: 6.53 min Scan# 1165
 Delta R.T. -0.00 min
 Lab File: VL034783.D
 Acq: 4 Mar 2020 5:54

Tgt Ion	Ratio	Lower	Upper
97	100		
99	65.1	51.7	77.5
61	55.2	43.4	65.0





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.20 min Scan# 1373

Delta R.T. -0.01 min

Lab File: VL034783.D

Acq: 4 Mar 2020 5:54

Instrument :

MSVOA_L

ClientSampleId :

ICVVL030420

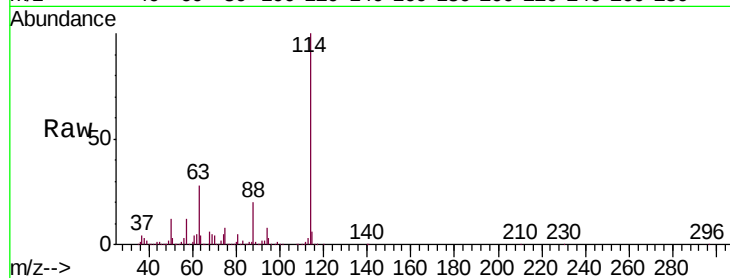
Tgt Ion:114 Resp: 2297050

Ion Ratio Lower Upper

114 100

63 29.4 23.6 35.4

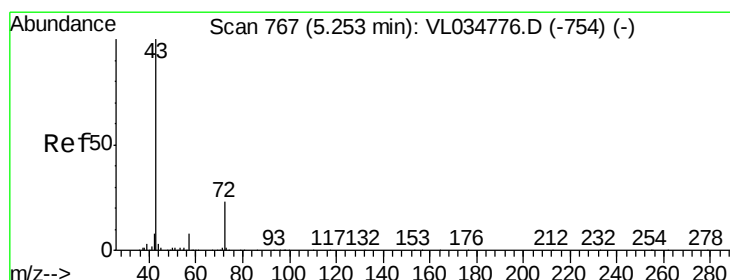
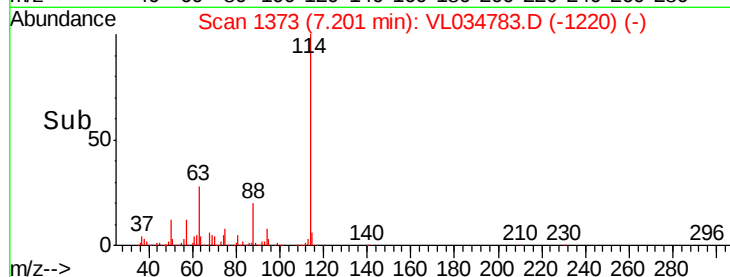
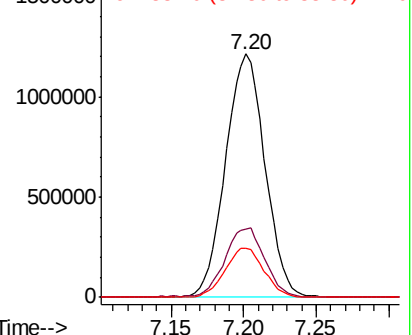
88 20.0 15.8 23.8



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: 9.584 ppbv

RT: 5.25 min Scan# 765

Delta R.T. -0.01 min

Lab File: VL034783.D

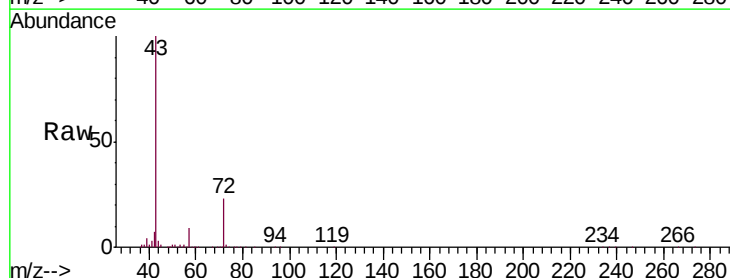
Acq: 4 Mar 2020 5:54

Tgt Ion: 43 Resp: 1432214

Ion Ratio Lower Upper

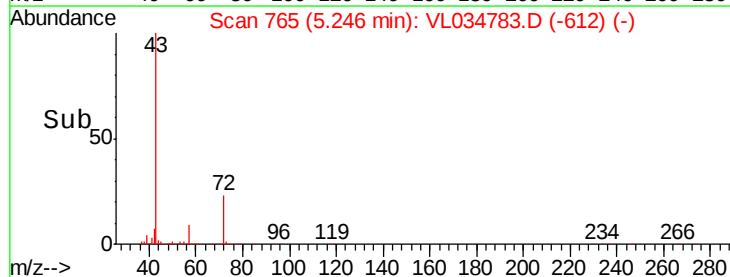
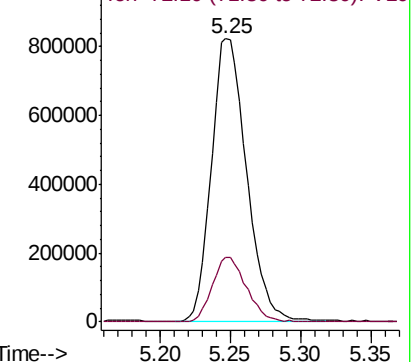
43 100

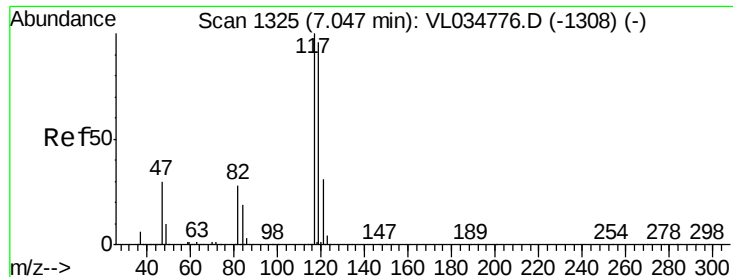
72 22.5 17.5 26.3



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 72.10 (71.80 to 72.80): VL0

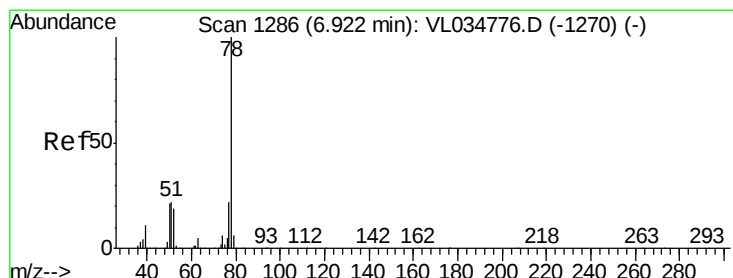
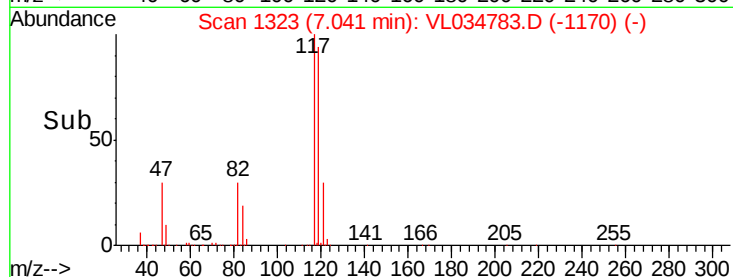
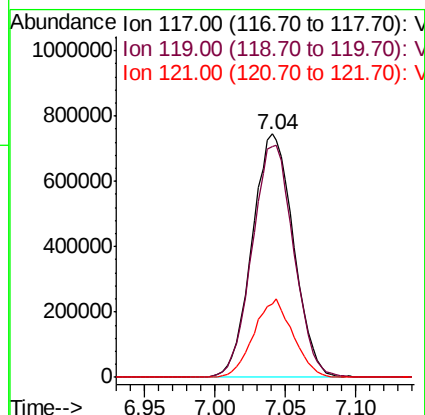
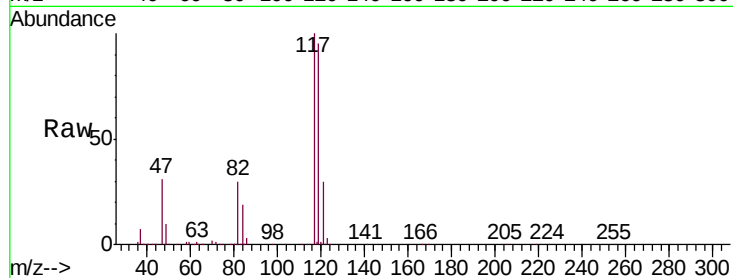




#35
Carbon Tetrachloride
Concen: 8.800 ppbv
RT: 7.04 min Scan# 1323
Delta R.T. -0.01 min
Lab File: VL034783.D
Acq: 4 Mar 2020 5:54

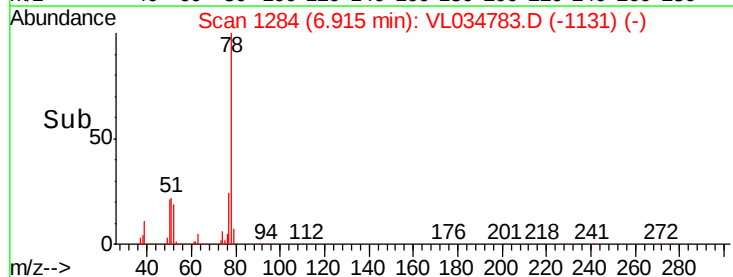
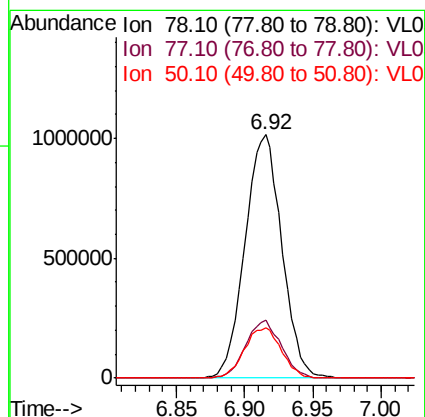
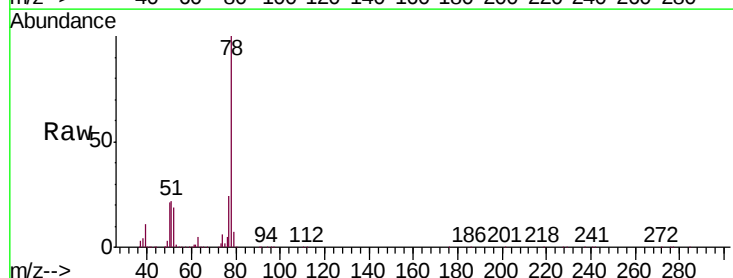
Instrument :
MSVOA_L
ClientSampleId :
ICVVL030420

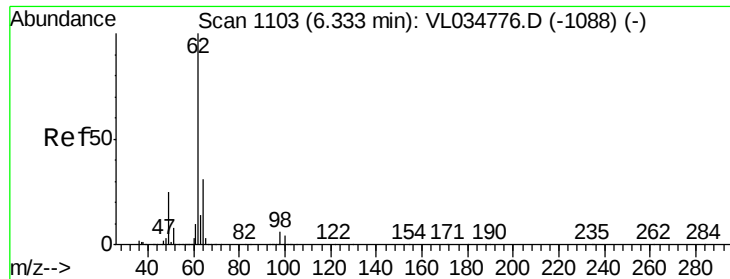
Tgt Ion: 117 Resp: 1525331
Ion Ratio Lower Upper
117 100
119 95.0 76.8 115.2
121 30.0 24.6 37.0



#36
Benzene
Concen: 9.677 ppbv
RT: 6.92 min Scan# 1284
Delta R.T. -0.01 min
Lab File: VL034783.D
Acq: 4 Mar 2020 5:54

Tgt Ion: 78 Resp: 1899532
Ion Ratio Lower Upper
78 100
77 23.8 18.0 27.0
50 20.5 16.9 25.3





#37

1,2-Dichloroethane

Concen: 9.354 ppbv

RT: 6.33 min Scan# 1101

Delta R.T. -0.01 min

Lab File: VL034783.D

Acq: 4 Mar 2020 5:54

Instrument :

MSVOA_L

ClientSampleId :

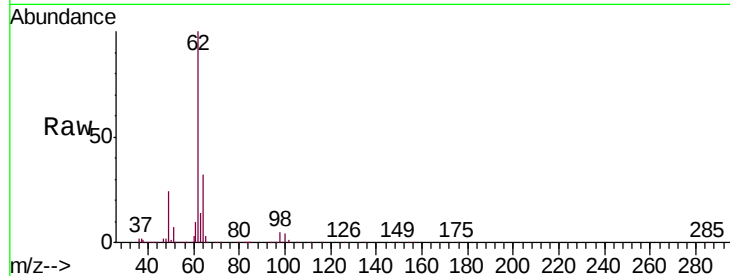
ICVVL030420

Tgt Ion: 62 Resp: 1254143

Ion Ratio Lower Upper

62 100

98 5.4 4.4 6.6



Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

800000

600000

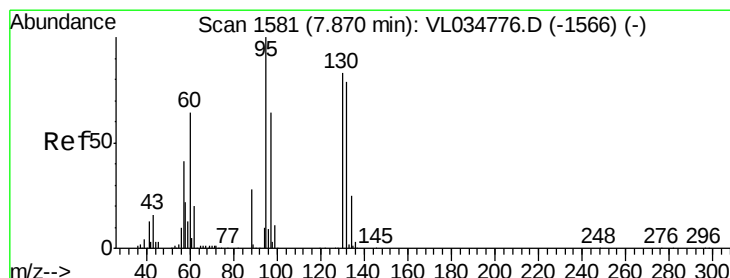
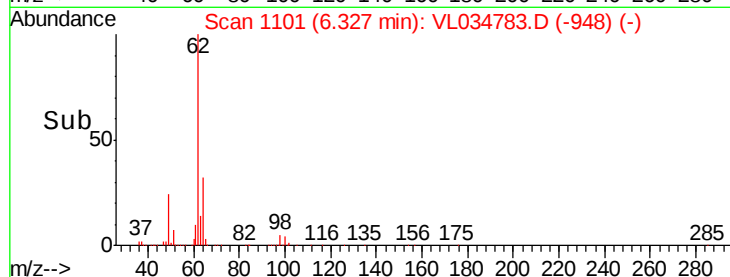
400000

200000

0

6.25 6.30 6.35 6.40

Time-->



#38

Trichloroethene

Concen: 9.214 ppbv

RT: 7.87 min Scan# 1580

Delta R.T. -0.00 min

Lab File: VL034783.D

Acq: 4 Mar 2020 5:54

Tgt Ion: 130 Resp: 704902

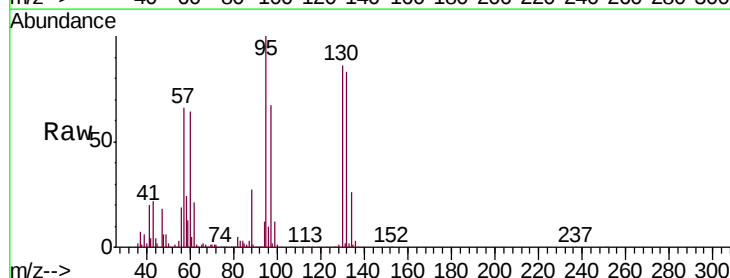
Ion Ratio Lower Upper

130 100

95 116.0 95.8 143.8

132 96.5 76.1 114.1

97 77.3 61.1 91.7



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

600000

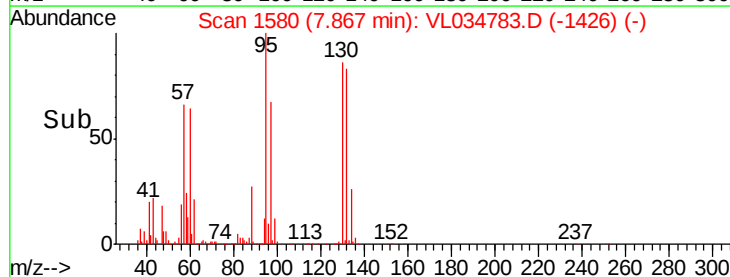
400000

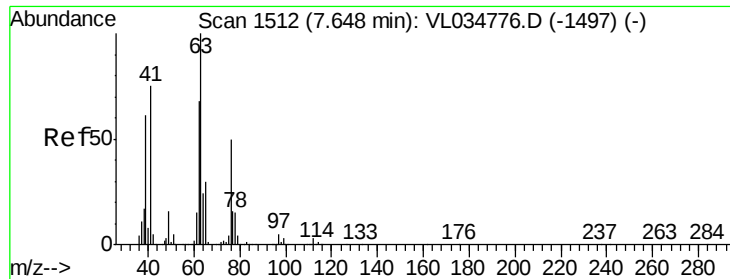
200000

0

7.80 7.85 7.90 7.95

Time-->





#39

1,2-Dichloropropane

Concen: 9.525 ppbv

RT: 7.65 min Scan# 1511

Delta R.T. -0.00 min

Lab File: VL034783.D

Acq: 4 Mar 2020 5:54

Instrument :

MSVOA_L

ClientSampleId :

ICVVL030420

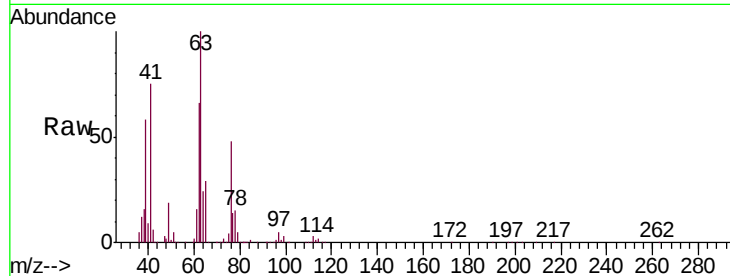
Tgt Ion: 63 Resp: 754482

Ion Ratio Lower Upper

63 100

41 74.3 60.3 90.5

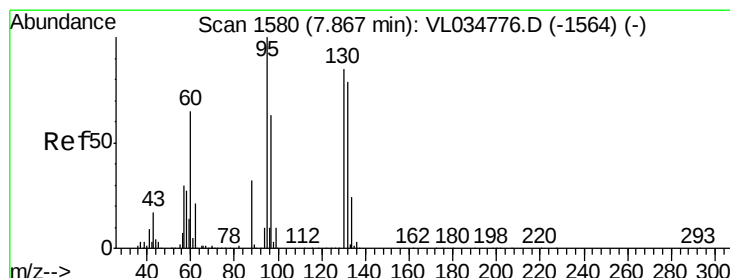
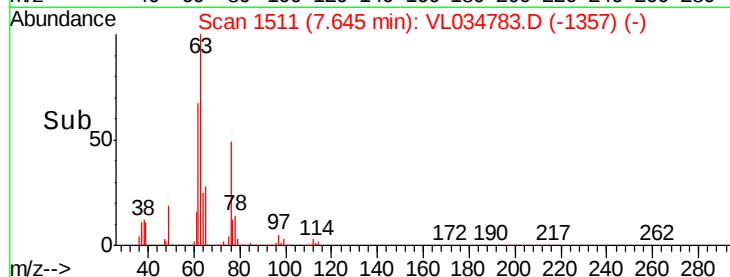
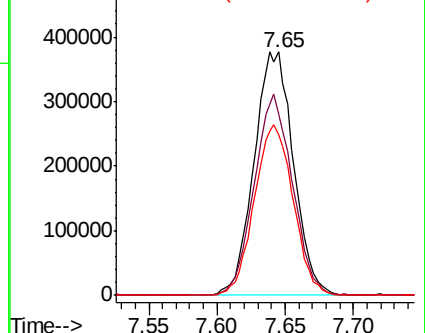
62 66.1 54.5 81.7



Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 62.10 (61.80 to 62.80): VL0



#40

1,4-Dioxane

Concen: 10.776 ppbv

RT: 7.86 min Scan# 1577

Delta R.T. -0.01 min

Lab File: VL034783.D

Acq: 4 Mar 2020 5:54

Tgt Ion: 88 Resp: 295253

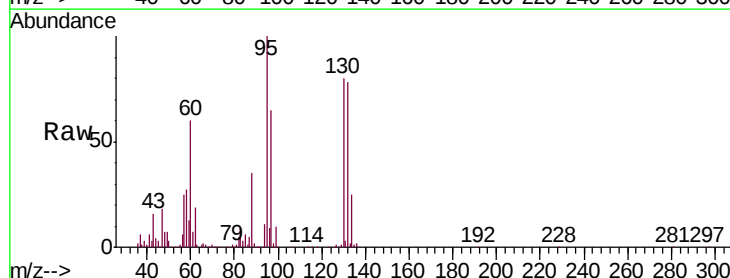
Ion Ratio Lower Upper

88 100

58 129.3 110.6 166.0

43 260.0 0.0 0.0#

57 1119.8 0.0 0.0#

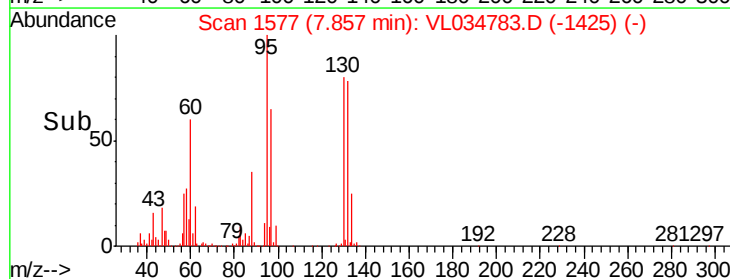
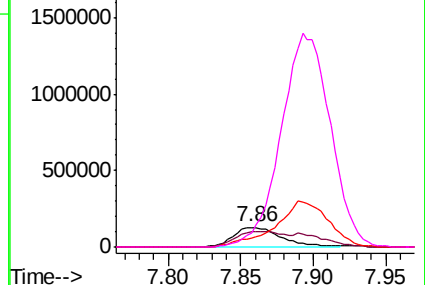


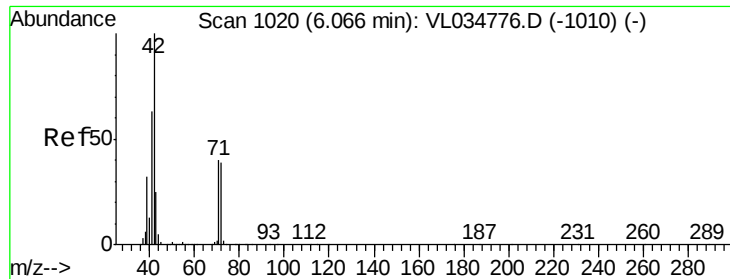
Abundance Ion 88.10 (87.80 to 88.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

Ion 43.10 (42.80 to 43.80): VL0

Ion 57.10 (56.80 to 57.80): VL0





#41

Tetrahydrofuran

Concen: 10.382 ppbv

RT: 6.06 min Scan# 1018

Delta R.T. -0.01 min

Lab File: VL034783.D

Acq: 4 Mar 2020 5:54

Instrument :

MSVOA_L

ClientSampleId :

ICVVL030420

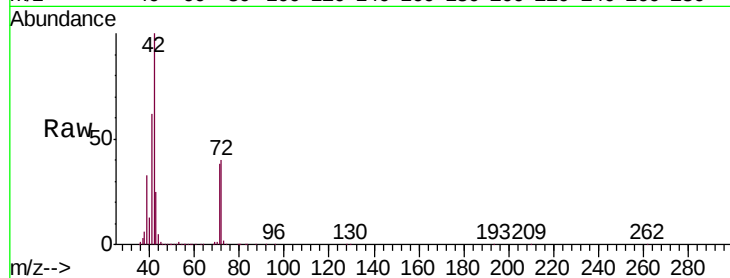
Tgt Ion: 42 Resp: 791609

Ion Ratio Lower Upper

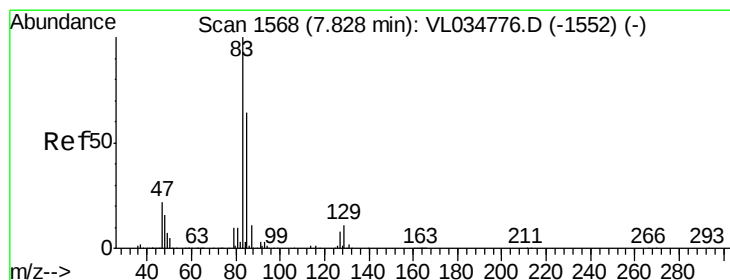
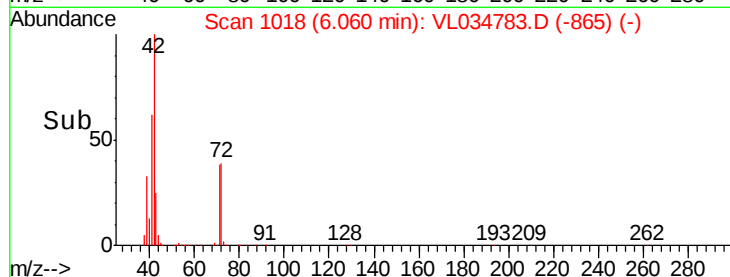
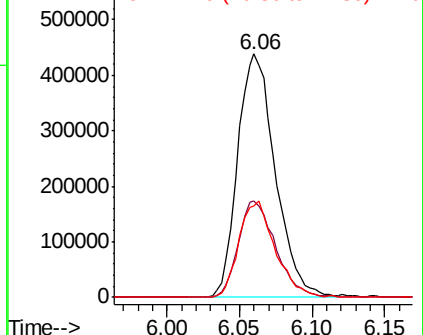
42 100

72 39.2 32.0 48.0

71 38.3 31.3 46.9



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: 9.733 ppbv

RT: 7.82 min Scan# 1566

Delta R.T. -0.01 min

Lab File: VL034783.D

Acq: 4 Mar 2020 5:54

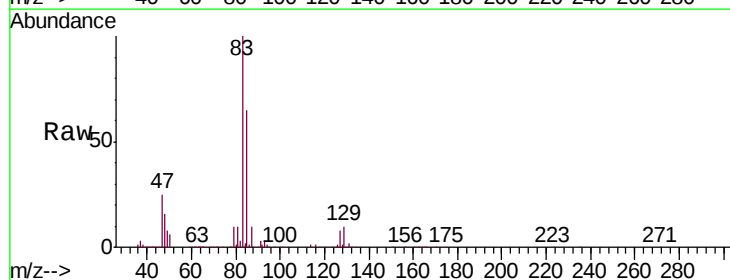
Tgt Ion: 83 Resp: 1651165

Ion Ratio Lower Upper

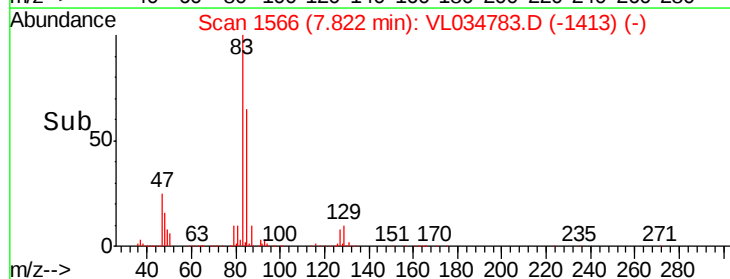
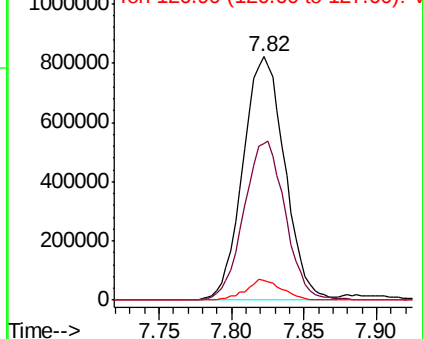
83 100

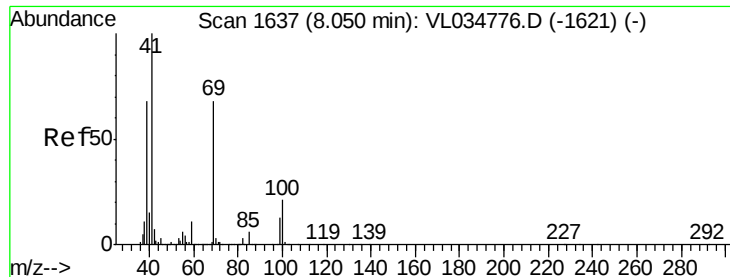
85 64.5 50.8 76.2

127 7.8 6.5 9.7



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

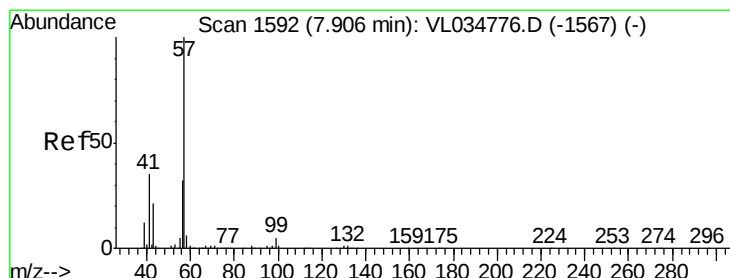
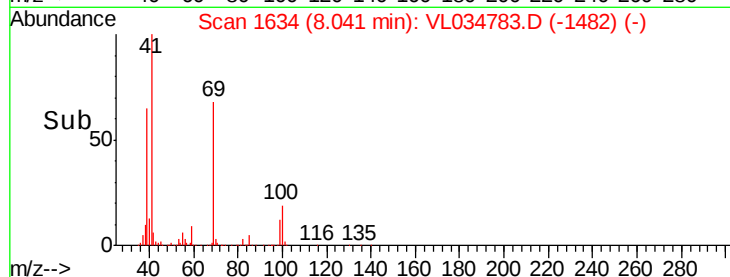
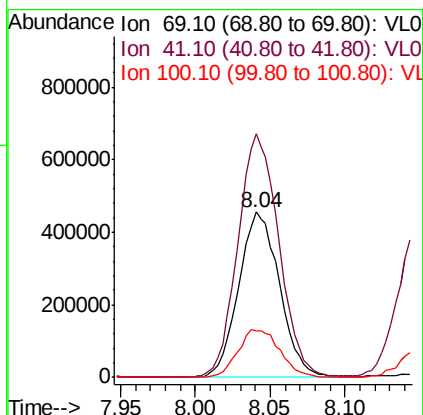
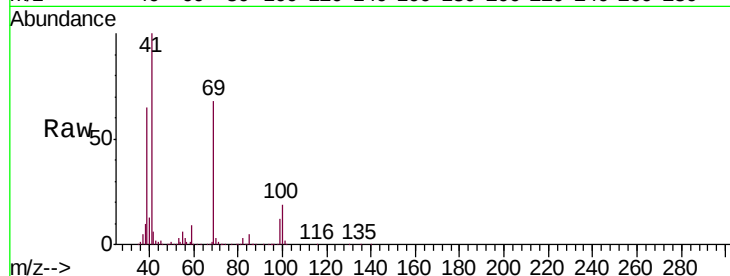




#43
Methyl Methacrylate
Concen: 10.398 ppbv
RT: 8.04 min Scan# 1634
Delta R.T. -0.01 min
Lab File: VL034783.D
Acq: 4 Mar 2020 5:54

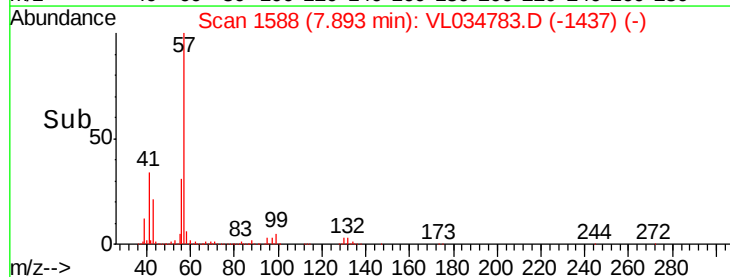
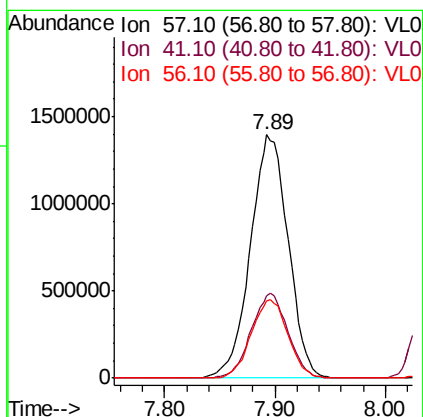
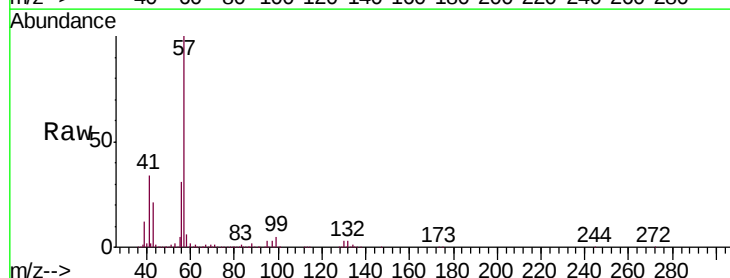
Instrument :
MSVOA_L
ClientSampleId :
ICVVL030420

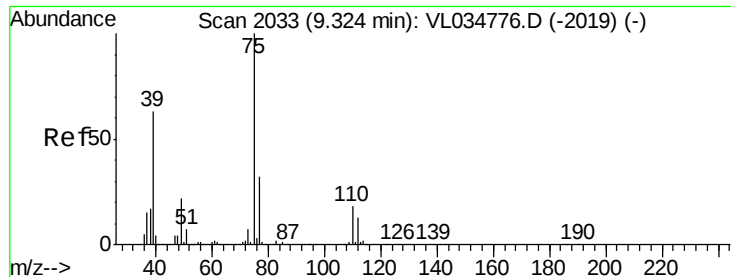
Tgt Ion: 69 Resp: 864896
Ion Ratio Lower Upper
69 100
41 147.8 121.6 182.4
100 29.8 23.8 35.8



#44
2,2,4-Trimethylpentane
Concen: 9.620 ppbv
RT: 7.89 min Scan# 1588
Delta R.T. -0.01 min
Lab File: VL034783.D
Acq: 4 Mar 2020 5:54

Tgt Ion: 57 Resp: 3299861
Ion Ratio Lower Upper
57 100
41 33.7 27.4 41.0
56 31.4 25.0 37.6





#45

t-1,3-Dichloropropene

Concen: 11.934 ppbv

RT: 9.32 min Scan# 2031

Delta R.T. -0.01 min

Lab File: VL034783.D

Acq: 4 Mar 2020 5:54

Instrument :

MSVOA_L

ClientSampleId :

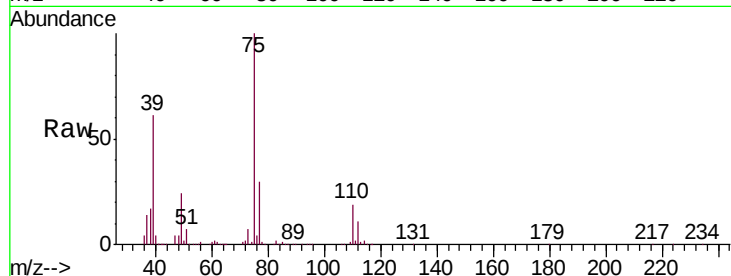
ICVVL030420

Tgt Ion: 75 Resp: 1042039

Ion Ratio Lower Upper

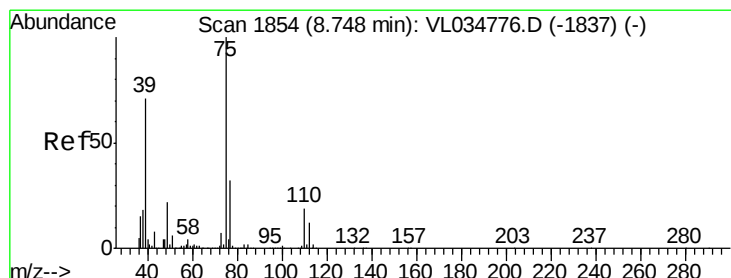
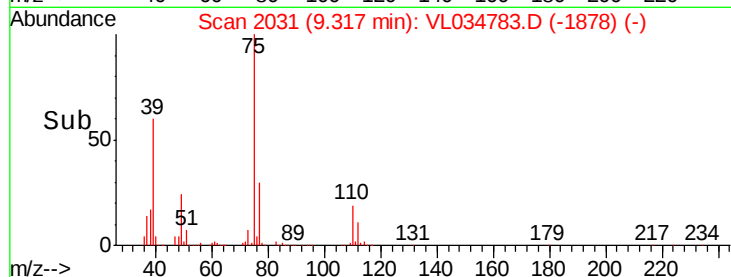
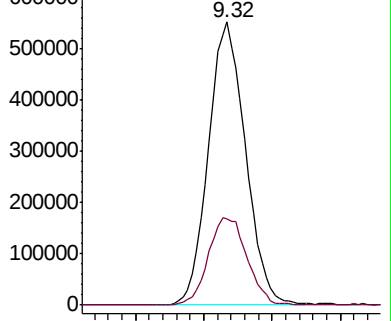
75 100

77 30.3 25.6 38.4



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: 11.405 ppbv

RT: 8.74 min Scan# 1851

Delta R.T. -0.01 min

Lab File: VL034783.D

Acq: 4 Mar 2020 5:54

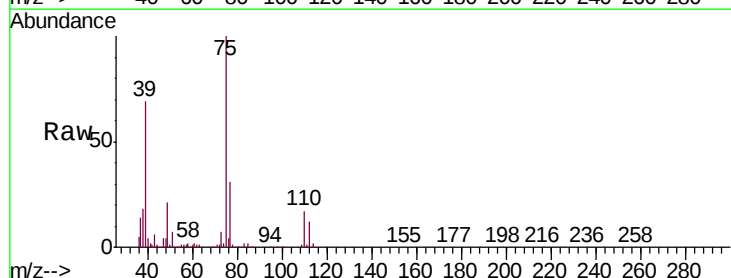
Tgt Ion: 75 Resp: 1216088

Ion Ratio Lower Upper

75 100

39 68.7 56.9 85.3

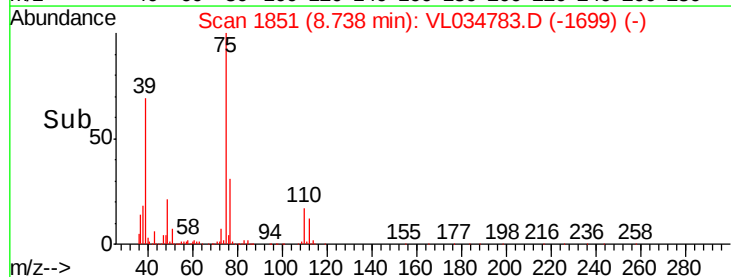
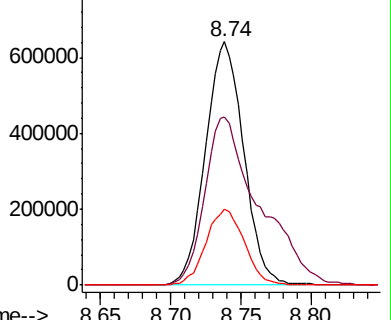
77 30.9 25.7 38.5

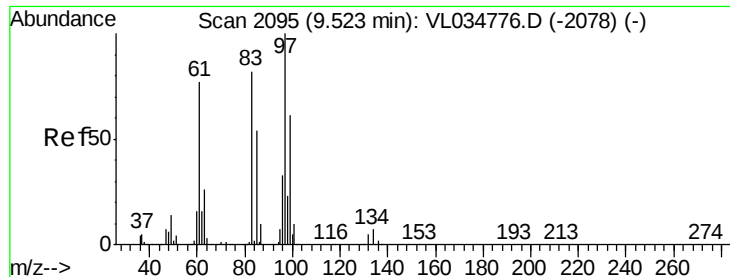


Abundance Ion 75.00 (74.70 to 75.70): VL0

Ion 39.00 (38.70 to 39.70): VL0

Ion 77.00 (76.70 to 77.70): VL0

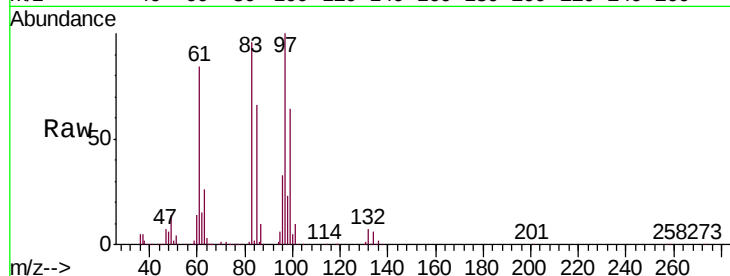




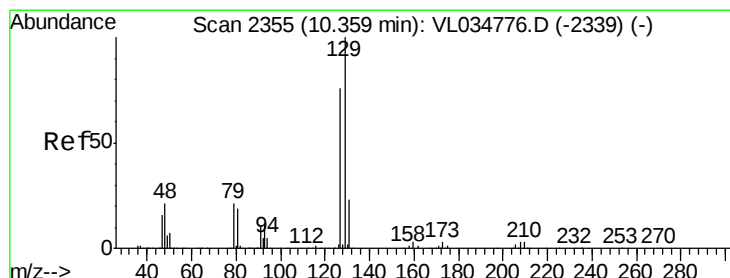
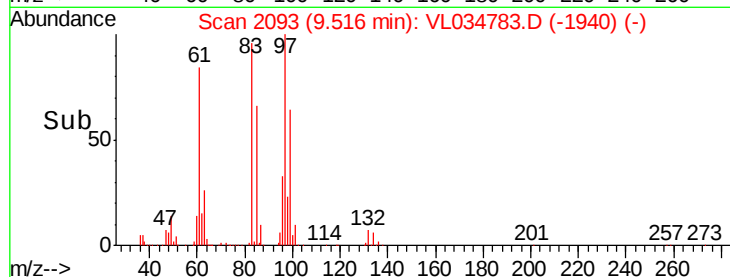
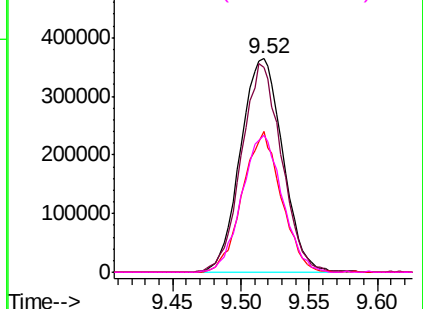
#47
 1,1,2-Trichloroethane
 Concen: 9.383 ppbv
 RT: 9.52 min Scan# 2093
 Delta R.T. -0.01 min
 Lab File: VL034783.D
 Acq: 4 Mar 2020 5:54

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL030420

Tgt Ion:	97	Resp:	784683
Ion	Ratio	Lower	Upper
97	100		
83	96.1	65.2	97.8
85	65.6	43.6	65.4#
99	64.3	48.9	73.3

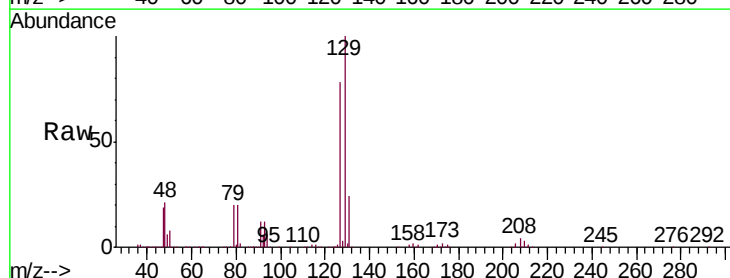


Abundance Ion 97.00 (96.70 to 97.70): VL0
 Ion 83.00 (82.70 to 83.70): VL0
 Ion 85.00 (84.70 to 85.70): VL0
 Ion 99.00 (98.70 to 99.70): VL0

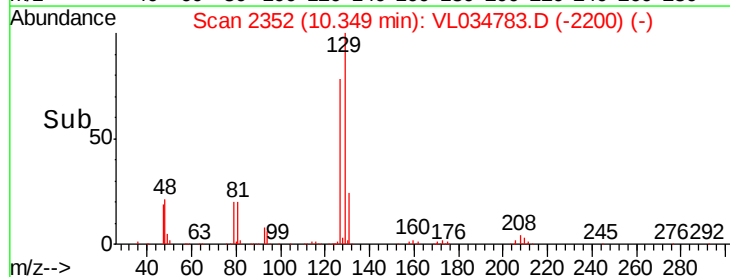
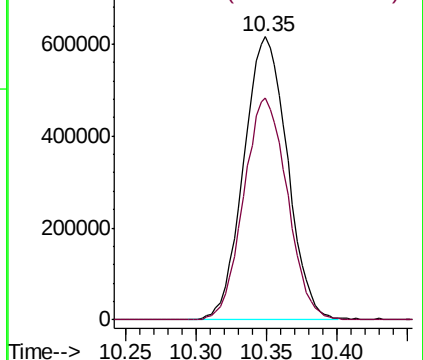


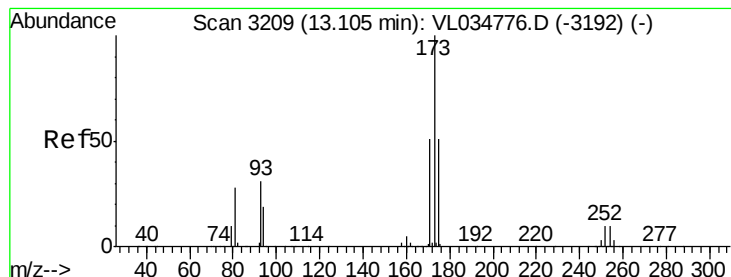
#48
 Dibromochloromethane
 Concen: 10.187 ppbv
 RT: 10.35 min Scan# 2352
 Delta R.T. -0.01 min
 Lab File: VL034783.D
 Acq: 4 Mar 2020 5:54

Tgt Ion:	129	Resp:	1332159
Ion	Ratio	Lower	Upper
129	100		
127	78.4	39.0	117.0



Abundance Ion 129.00 (128.70 to 129.70): V
 Ion 127.00 (126.70 to 127.70): V





#49

Bromoform

Concen: 10.236 ppbv

RT: 13.10 min Scan# 3206

Delta R.T. -0.01 min

Lab File: VL034783.D

Acq: 4 Mar 2020 5:54

Instrument :

MSVOA_L

ClientSampleId :

ICVVL030420

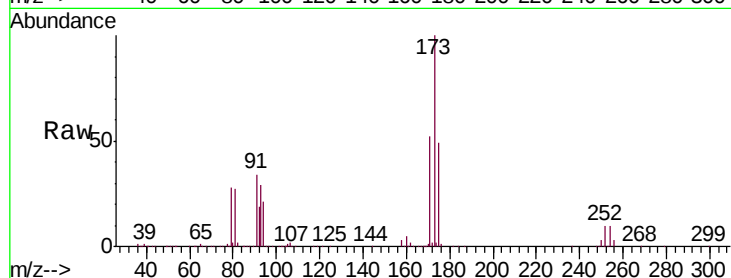
Tgt Ion:173 Resp: 1168105

Ion Ratio Lower Upper

173 100

175 49.9 39.8 59.6

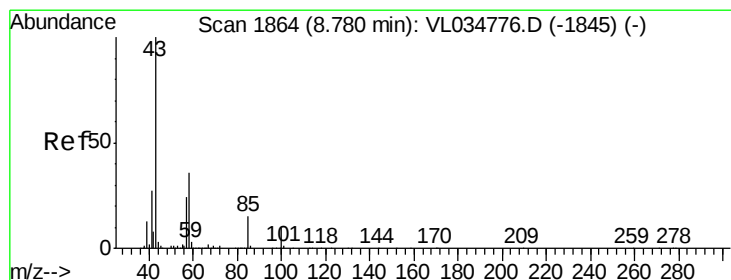
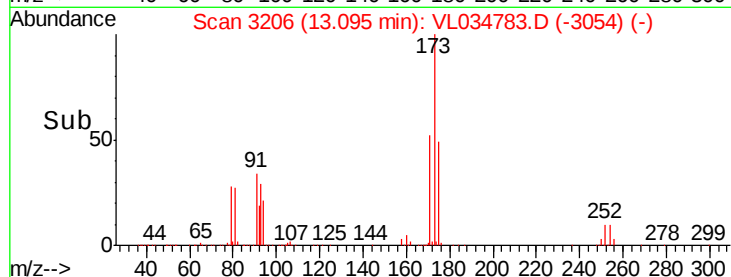
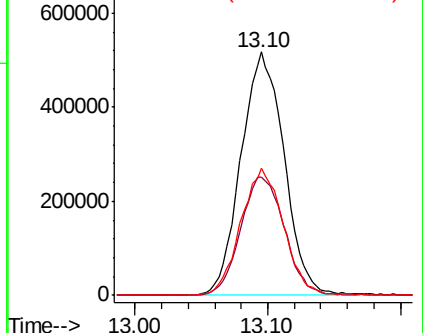
171 52.1 41.0 61.4



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: 10.028 ppbv

RT: 8.77 min Scan# 1862

Delta R.T. -0.01 min

Lab File: VL034783.D

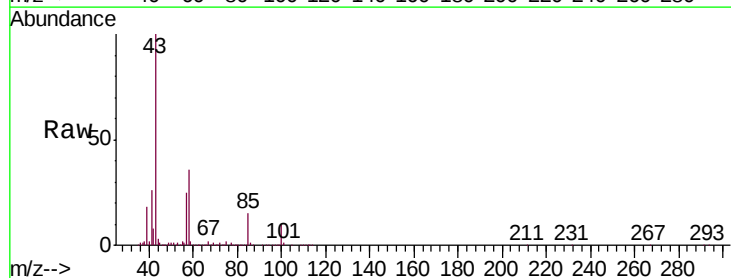
Acq: 4 Mar 2020 5:54

Tgt Ion: 43 Resp: 2147294

Ion Ratio Lower Upper

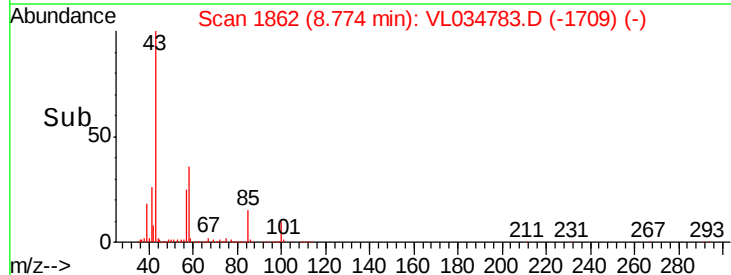
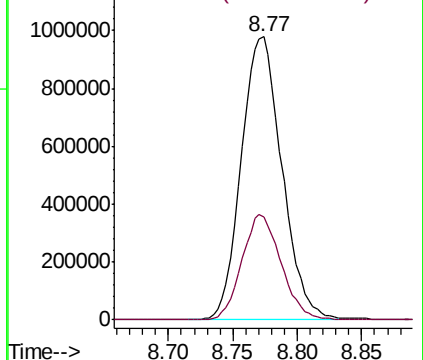
43 100

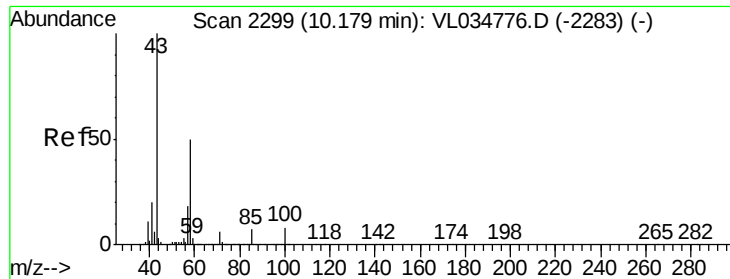
58 36.0 28.7 43.1



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0





#51

2-Hexanone

Concen: 10.658 ppbv

RT: 10.17 min Scan# 2295

Delta R.T. -0.01 min

Lab File: VL034783.D

Acq: 4 Mar 2020 5:54

Instrument :

MSVOA_L

ClientSampleId :

ICVVL030420

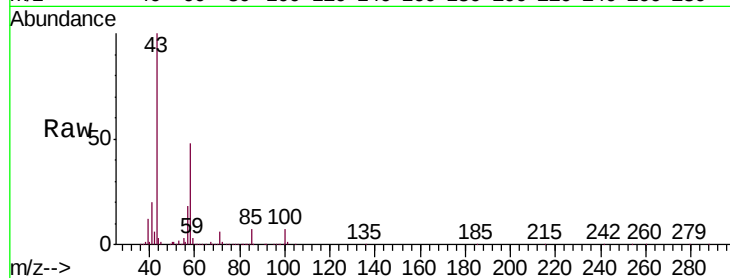
Tgt Ion: 43 Resp: 1790233

Ion Ratio Lower Upper

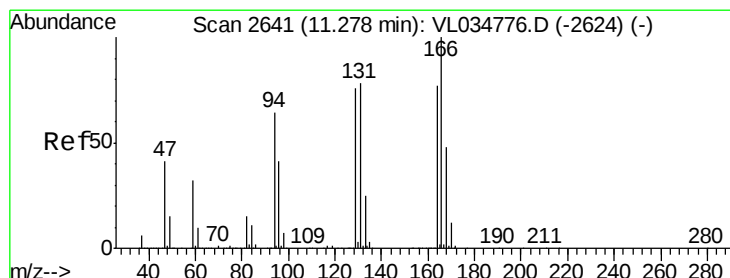
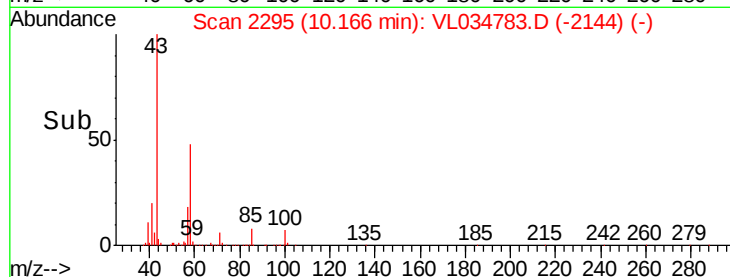
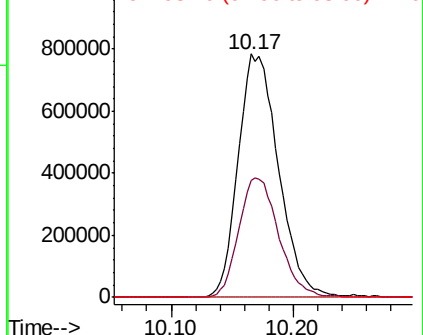
43 100

58 48.7 38.6 58.0

98 0.3 0.2 0.4



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: 9.149 ppbv

RT: 11.27 min Scan# 2638

Delta R.T. -0.01 min

Lab File: VL034783.D

Acq: 4 Mar 2020 5:54

Tgt Ion: 164 Resp: 663493

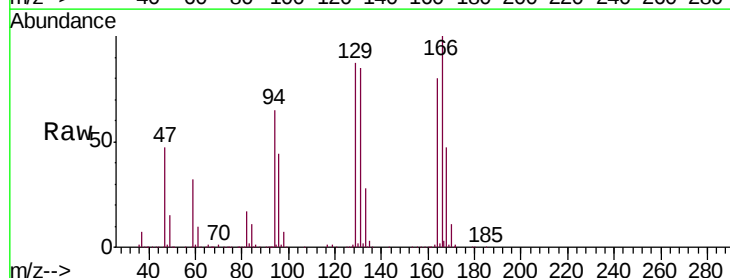
Ion Ratio Lower Upper

164 100

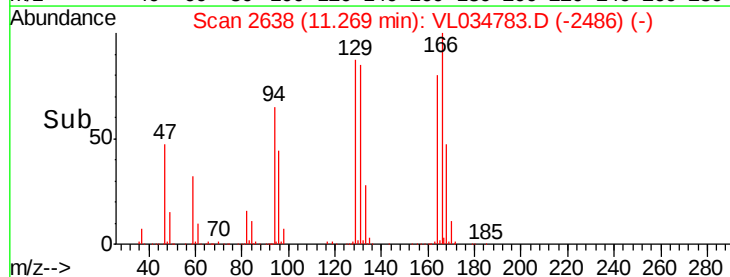
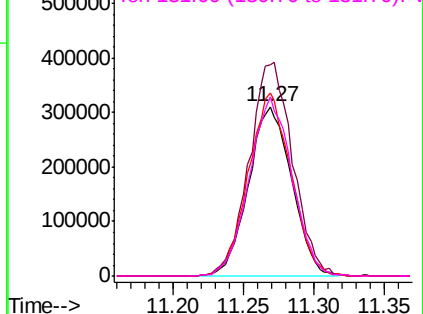
166 124.5 103.3 154.9

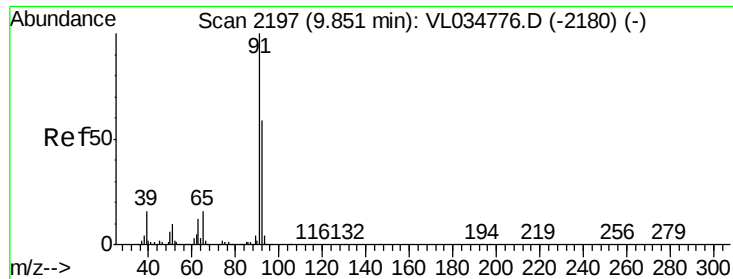
129 108.0 79.0 118.4

131 105.7 81.0 121.4



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: 10.414 ppbv

RT: 9.84 min Scan# 2195

Delta R.T. -0.01 min

Lab File: VL034783.D

Acq: 4 Mar 2020 5:54

Instrument :

MSVOA_L

ClientSampleId :

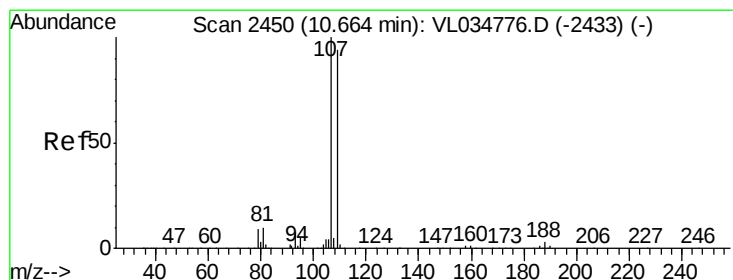
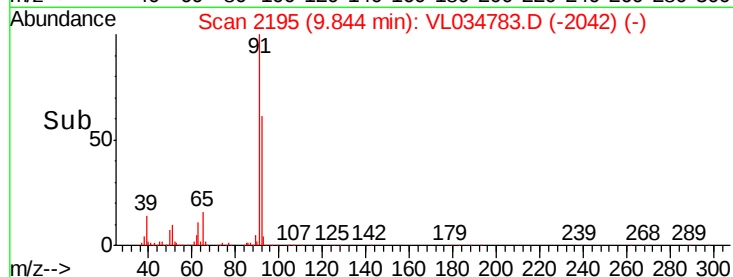
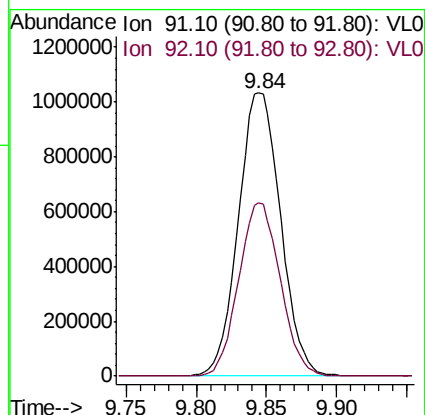
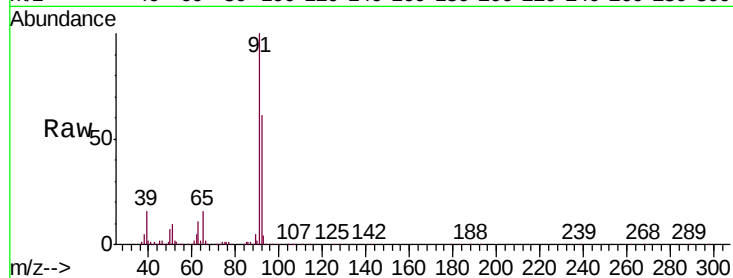
ICVVL030420

Tgt Ion: 91 Resp: 2163384

Ion Ratio Lower Upper

91 100

92 60.4 48.2 72.2



#54

1,2-Dibromoethane

Concen: 9.777 ppbv

RT: 10.66 min Scan# 2448

Delta R.T. -0.01 min

Lab File: VL034783.D

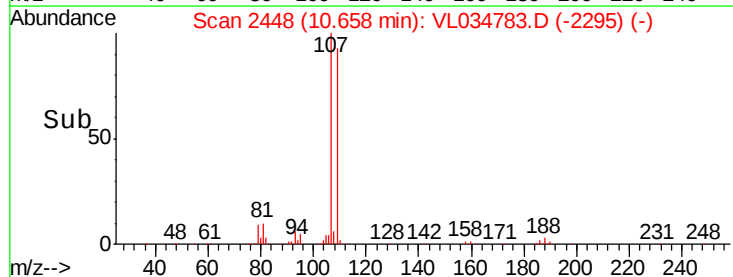
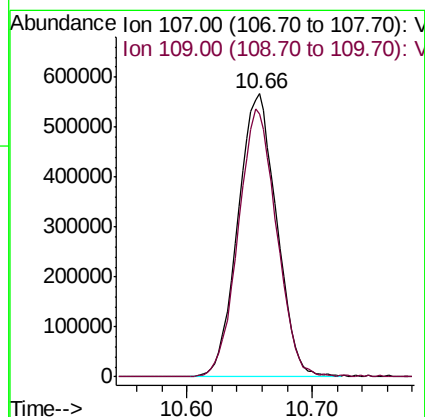
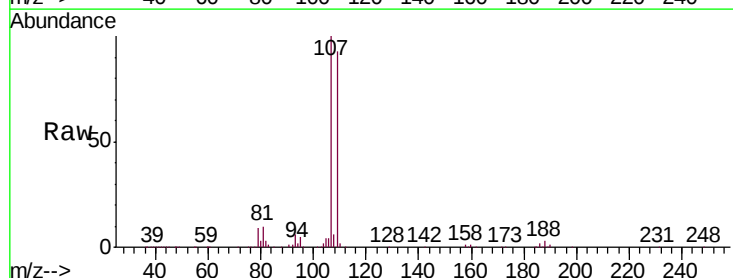
Acq: 4 Mar 2020 5:54

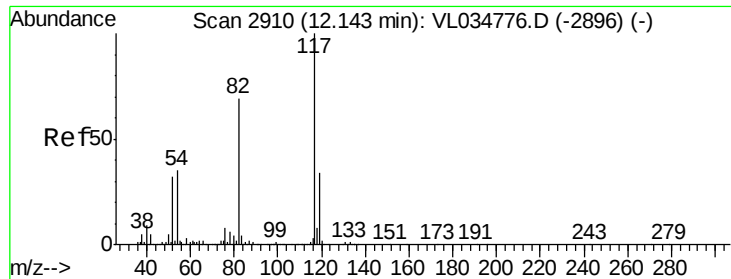
Tgt Ion: 107 Resp: 1209055

Ion Ratio Lower Upper

107 100

109 93.0 75.0 112.6

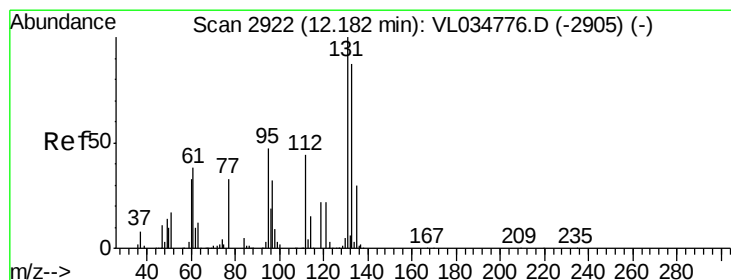
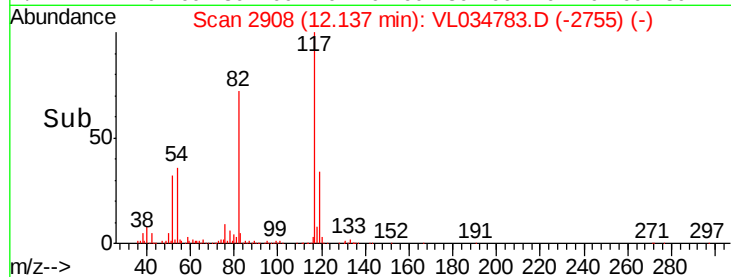
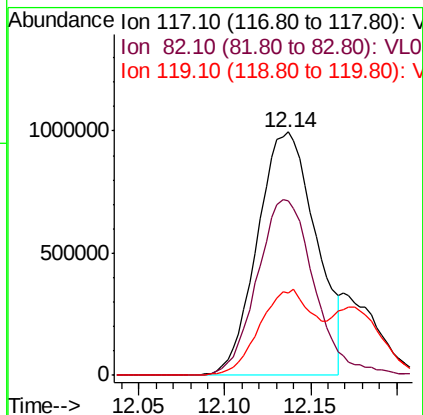
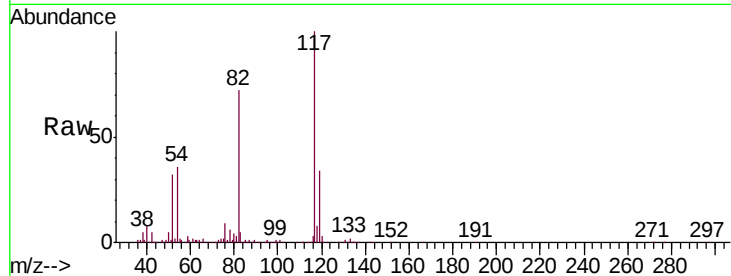




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.14 min Scan# 2908
Delta R.T. -0.01 min
Lab File: VL034783.D
Acq: 4 Mar 2020 5:54

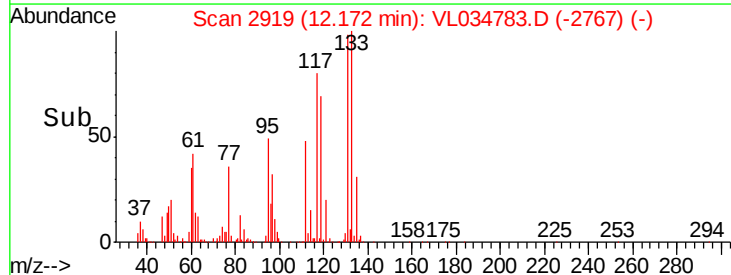
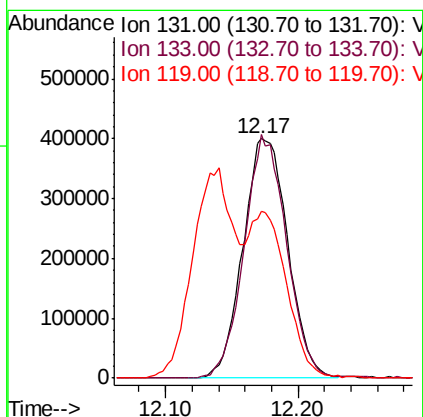
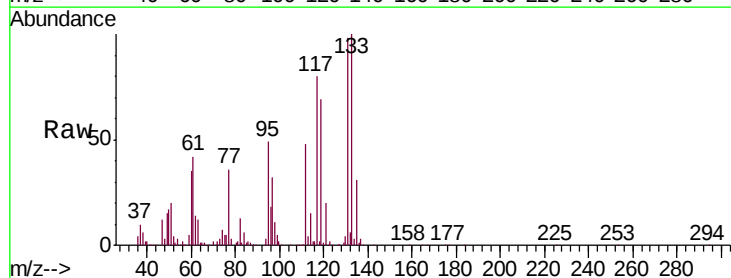
Instrument :
MSVOA_L
ClientSampleId :
ICVVL030420

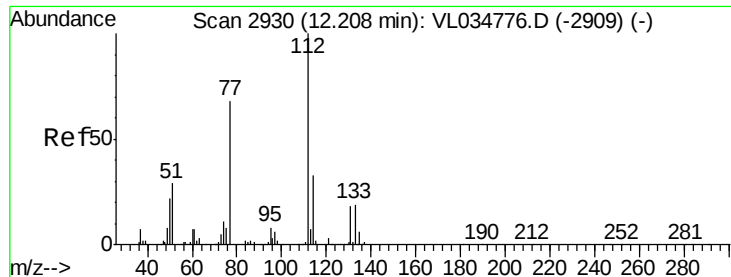
Tgt Ion:117 Resp: 2360401
Ion Ratio Lower Upper
117 100
82 71.1 53.9 80.9
119 57.1 25.0 37.4#



#56
1,1,1,2-Tetrachloroethane
Concen: 8.988 ppbv
RT: 12.17 min Scan# 2919
Delta R.T. -0.01 min
Lab File: VL034783.D
Acq: 4 Mar 2020 5:54

Tgt Ion:131 Resp: 940010
Ion Ratio Lower Upper
131 100
133 96.2 75.4 113.0
119 58.3 110.5 165.7#

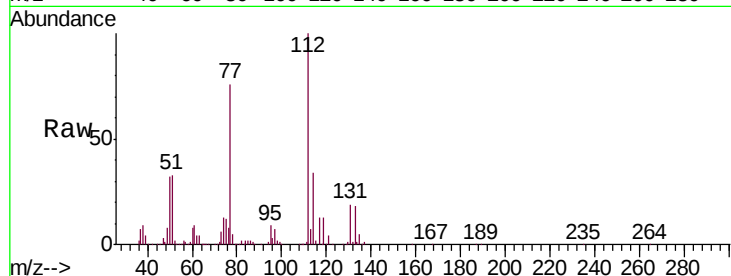




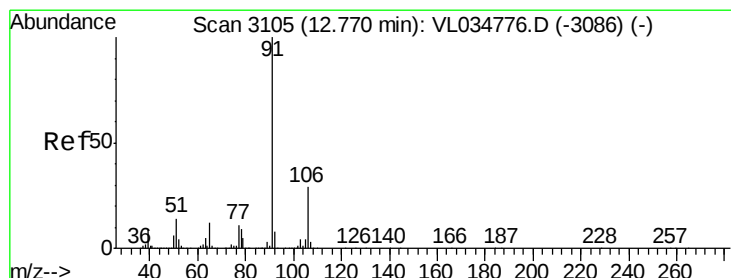
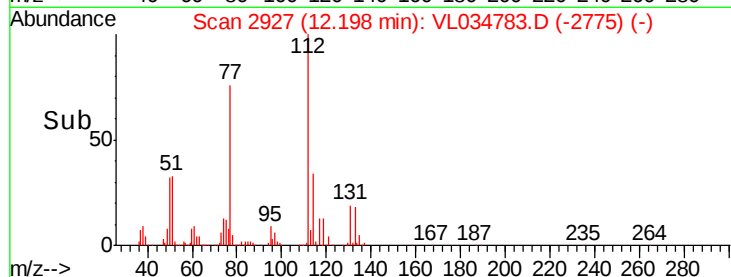
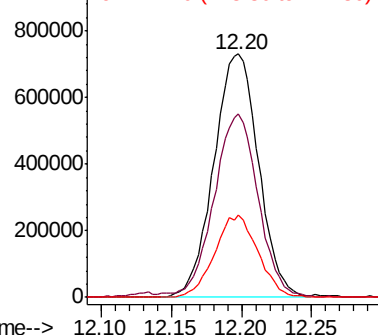
#57
Chlorobenzene
Concen: 8.952 ppbv
RT: 12.20 min Scan# 2927
Delta R.T. -0.01 min
Lab File: VL034783.D
Acq: 4 Mar 2020 5:54

Instrument :
MSVOA_L
ClientSampleId :
ICVVL030420

Tgt Ion: 112 Resp: 1614118
Ion Ratio Lower Upper
112 100
77 75.2 55.6 83.4
114 33.6 29.4 36.0

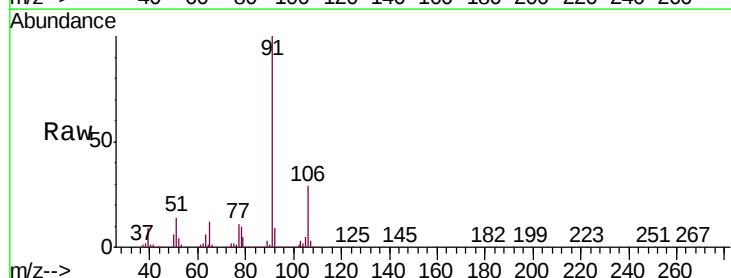


Abundance Ion 112.10 (111.80 to 112.80): V
Ion 77.10 (76.80 to 77.80): VL0
Ion 114.10 (113.80 to 114.80): V

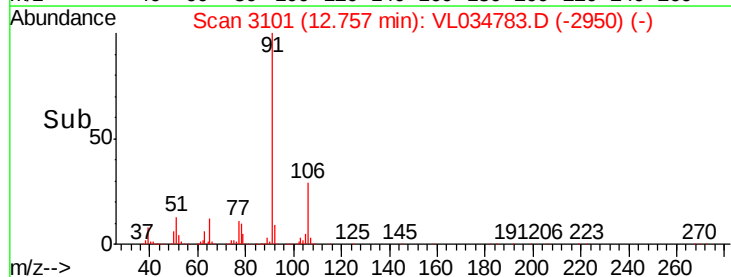
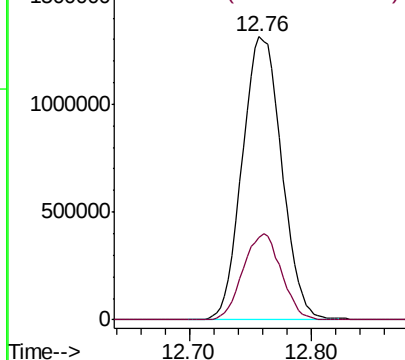


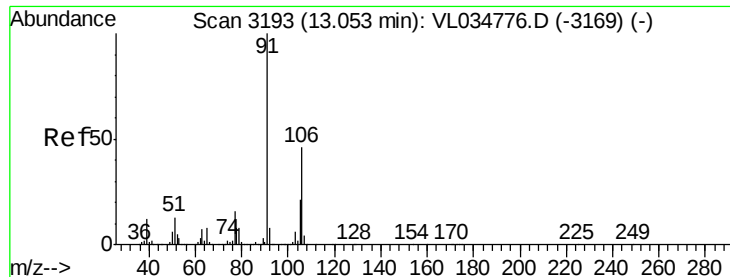
#58
Ethyl Benzene
Concen: 10.075 ppbv
RT: 12.76 min Scan# 3101
Delta R.T. -0.01 min
Lab File: VL034783.D
Acq: 4 Mar 2020 5:54

Tgt Ion: 91 Resp: 2930733
Ion Ratio Lower Upper
91 100
106 29.2 22.8 34.2



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

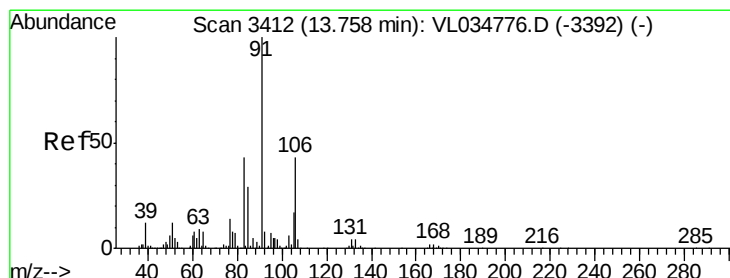
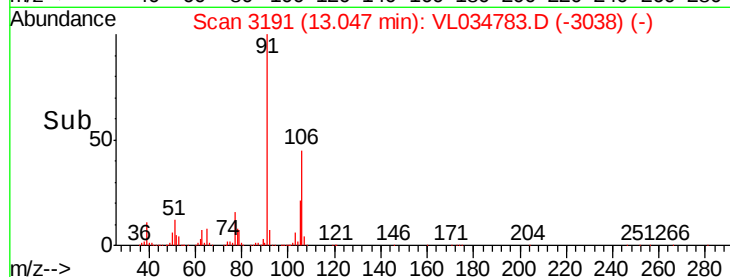
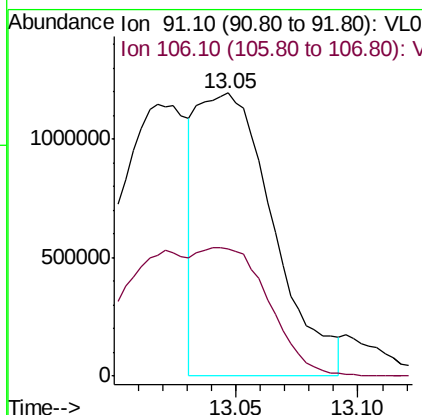
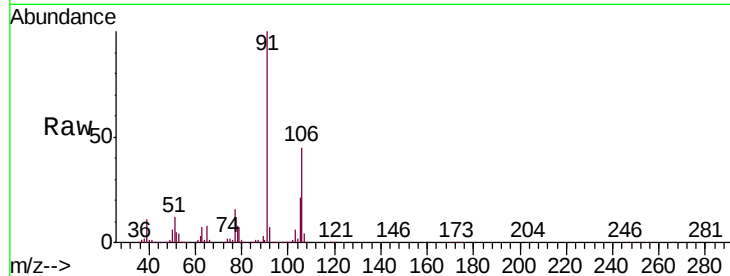




#59
m/p-Xylene
Concen: 10.231 ppbv
RT: 13.05 min Scan# 3191
Delta R.T. -0.01 min
Lab File: VL034783.D
Acq: 4 Mar 2020 5:54

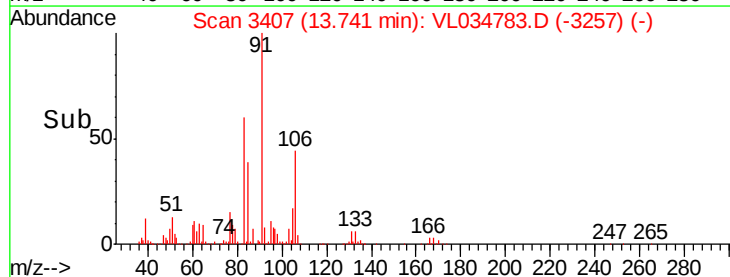
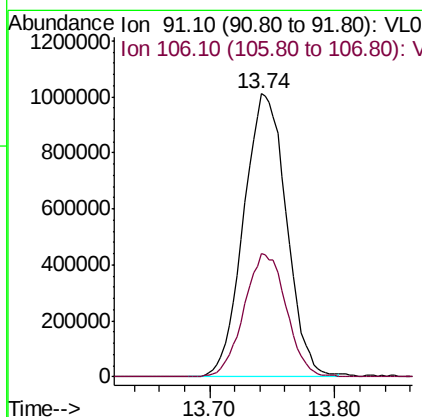
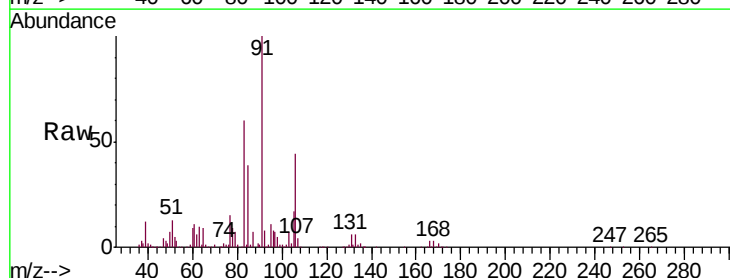
Instrument :
MSVOA_L
ClientSampleId :
ICVVL030420

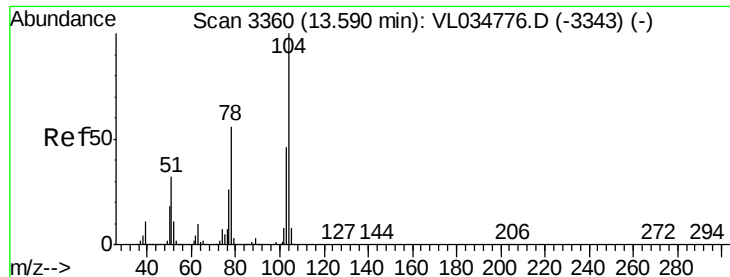
Tgt Ion: 91 Resp: 2576149
Ion Ratio Lower Upper
91 100
106 83.5 35.8 53.8#



#60
o-Xylene
Concen: 9.405 ppbv
RT: 13.74 min Scan# 3407
Delta R.T. -0.02 min
Lab File: VL034783.D
Acq: 4 Mar 2020 5:54

Tgt Ion: 91 Resp: 2396058
Ion Ratio Lower Upper
91 100
106 43.2 21.7 65.1

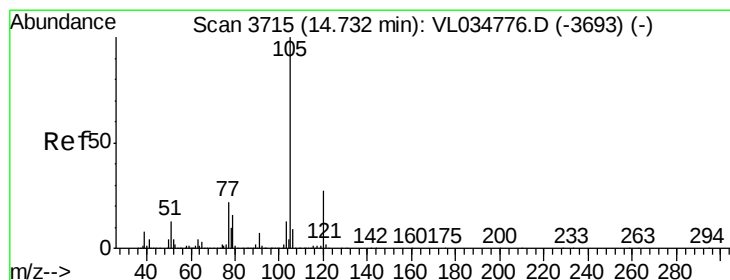
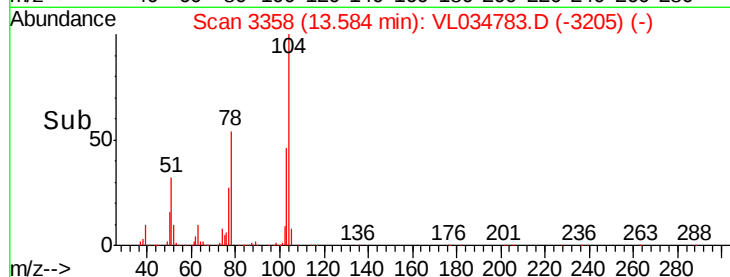
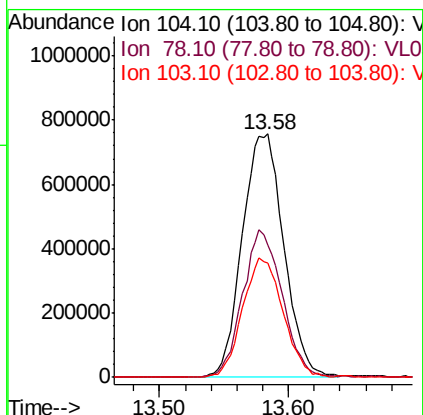
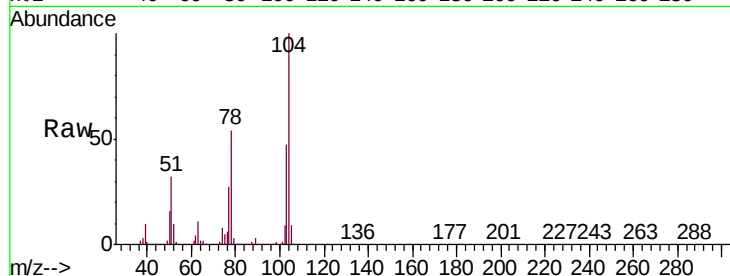




#61
Styrene
Concen: 10.766 ppbv
RT: 13.58 min Scan# 3358
Delta R.T. -0.01 min
Lab File: VL034783.D
Acq: 4 Mar 2020 5:54

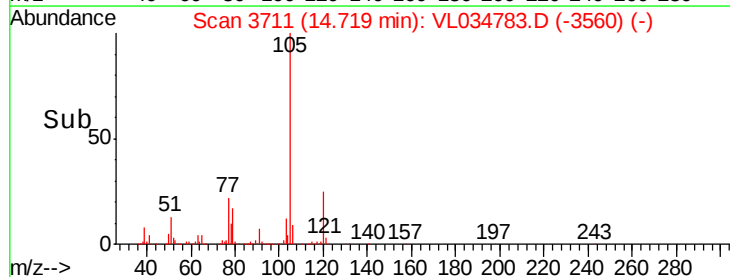
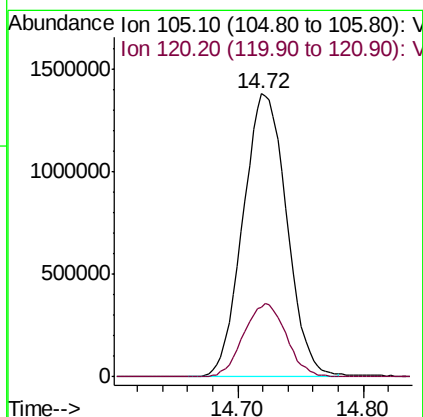
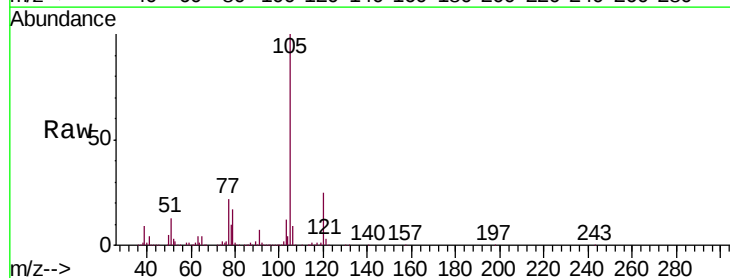
Instrument :
MSVOA_L
ClientSampleId :
ICVVL030420

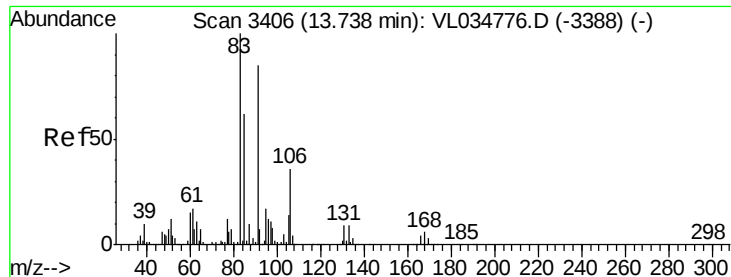
Tgt Ion:104 Resp: 1701496
Ion Ratio Lower Upper
104 100
78 58.0 44.7 67.1
103 48.0 38.2 57.2



#62
Isopropylbenzene
Concen: 8.926 ppbv
RT: 14.72 min Scan# 3711
Delta R.T. -0.01 min
Lab File: VL034783.D
Acq: 4 Mar 2020 5:54

Tgt Ion:105 Resp: 3346781
Ion Ratio Lower Upper
105 100
120 25.4 20.5 30.7

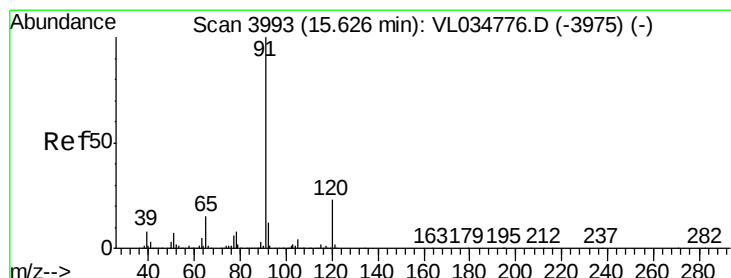
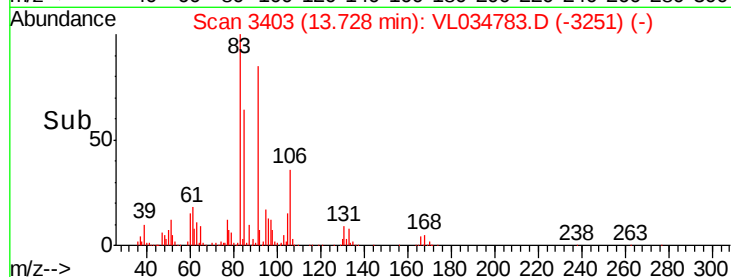
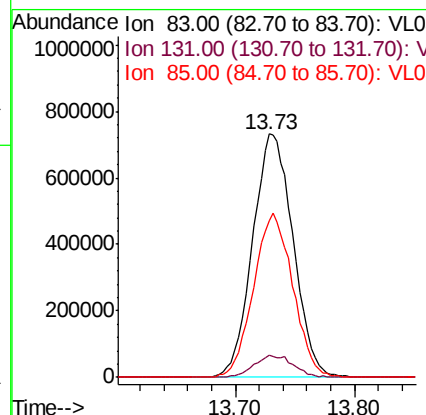
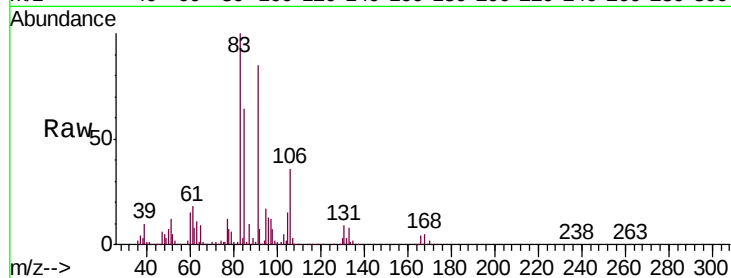




#63
 1,1,2,2-Tetrachloroethane
 Concen: 8.563 ppbv
 RT: 13.73 min Scan# 3403
 Delta R.T. -0.01 min
 Lab File: VL034783.D
 Acq: 4 Mar 2020 5:54

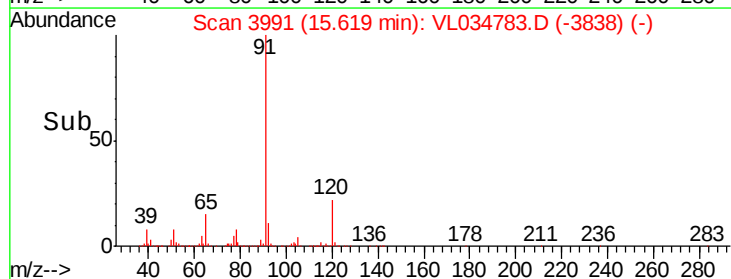
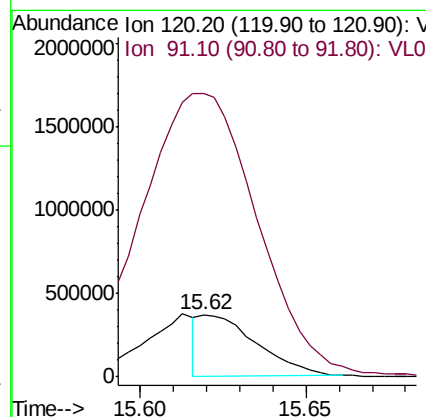
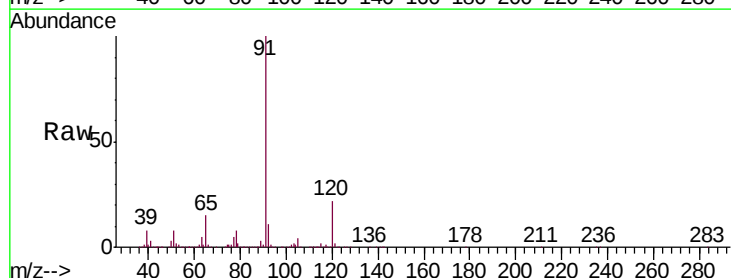
Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL030420

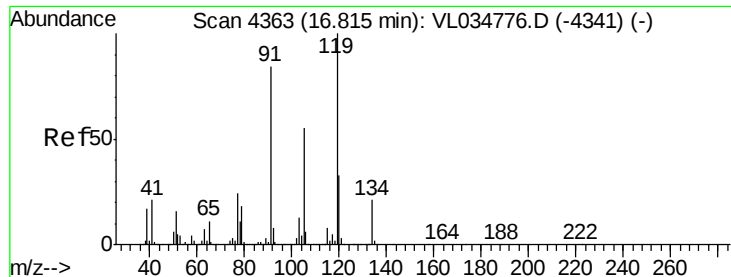
Tgt Ion: 83 Resp: 1719679
 Ion Ratio Lower Upper
 83 100
 131 8.8 4.7 14.0
 85 65.8 32.9 98.7



#64
 n-propylbenzene
 Concen: 4.558 ppbv
 RT: 15.62 min Scan# 3991
 Delta R.T. -0.01 min
 Lab File: VL034783.D
 Acq: 4 Mar 2020 5:54

Tgt Ion: 120 Resp: 428507
 Ion Ratio Lower Upper
 120 100
 91 989.0 379.4 569.2#





#65

tert-Butylbenzene

Concen: 9.165 ppbv

RT: 16.80 min Scan# 4359

Delta R.T. -0.01 min

Lab File: VL034783.D

Acq: 4 Mar 2020 5:54

Instrument :

MSVOA_L

ClientSampleId :

ICVVL030420

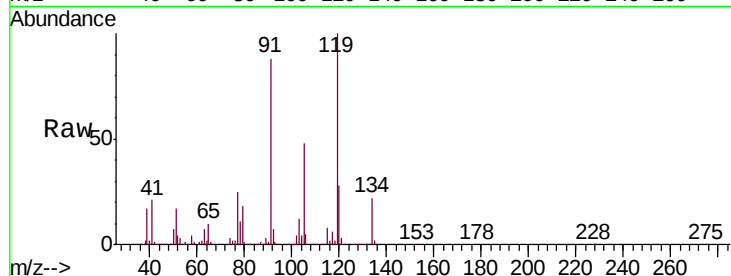
Tgt Ion:119 Resp: 2904228

Ion Ratio Lower Upper

119 100

91 88.2 69.8 104.6

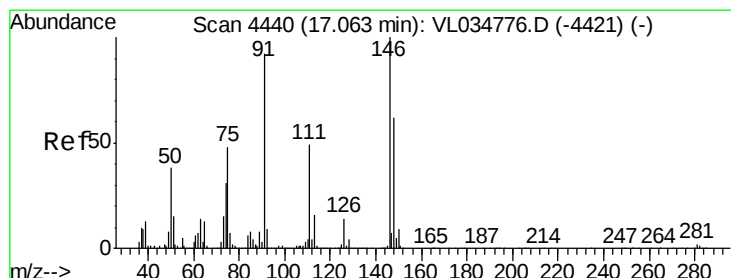
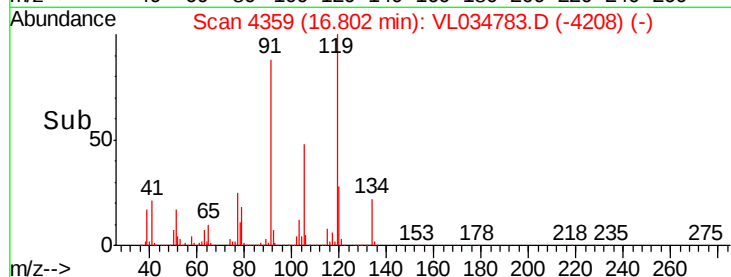
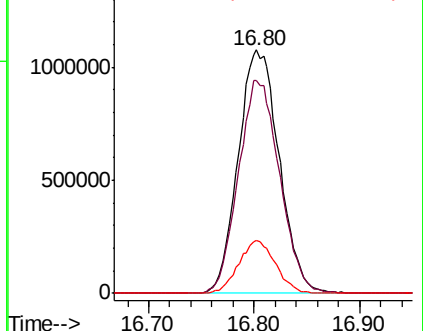
134 19.6 15.9 23.9



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: 13.699 ppbv

RT: 17.05 min Scan# 4437

Delta R.T. -0.01 min

Lab File: VL034783.D

Acq: 4 Mar 2020 5:54

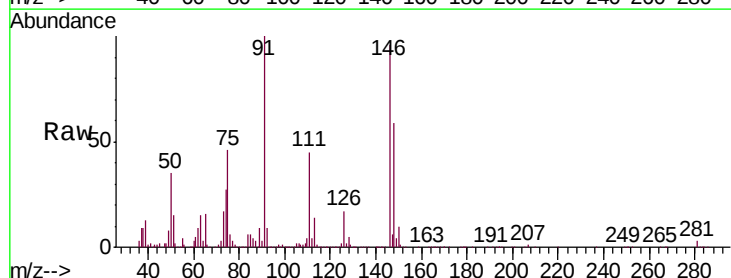
Tgt Ion: 91 Resp: 1403347

Ion Ratio Lower Upper

91 100

126 16.2 12.6 18.8

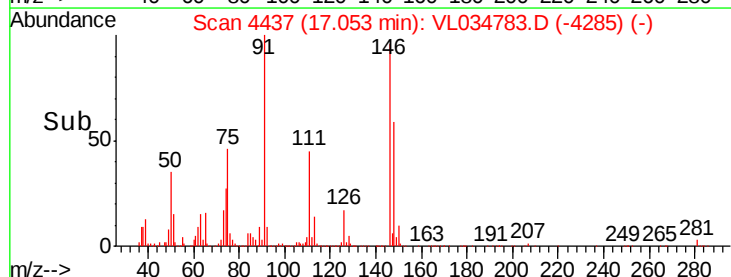
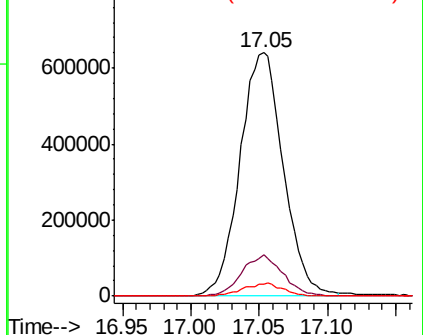
128 5.1 4.3 6.5

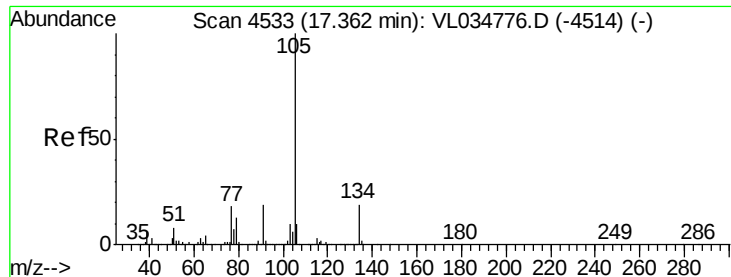


Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 126.10 (125.80 to 126.80): V

Ion 128.10 (127.80 to 128.80): V





#67

sec-Butylbenzene

Concen: 9.072 ppbv

RT: 17.36 min Scan# 4531

Delta R.T. -0.01 min

Lab File: VL034783.D

Acq: 4 Mar 2020 5:54

Instrument :

MSVOA_L

ClientSampleId :

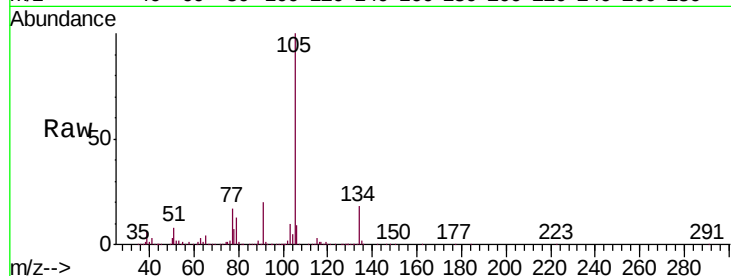
ICVVL030420

Tgt Ion:105 Resp: 4188904

Ion Ratio Lower Upper

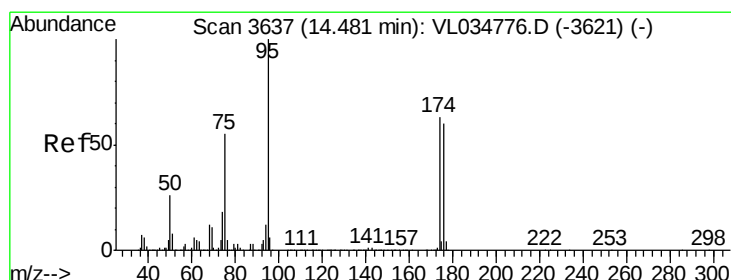
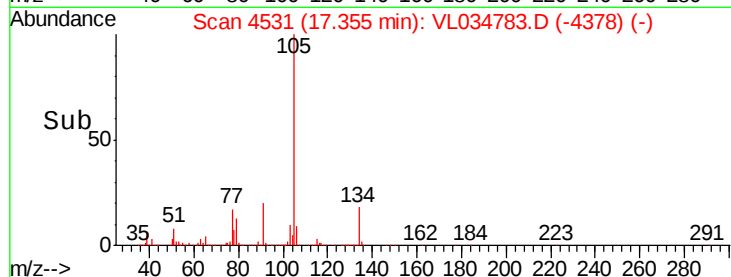
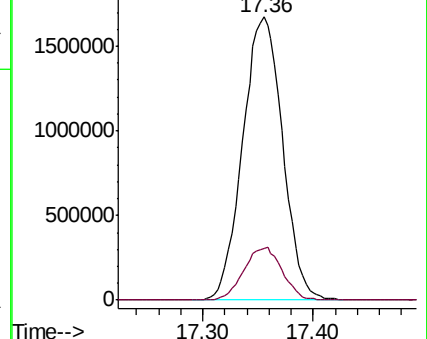
105 100

134 18.1 14.7 22.1



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: 9.895 ppbv

RT: 14.47 min Scan# 3633

Delta R.T. -0.01 min

Lab File: VL034783.D

Acq: 4 Mar 2020 5:54

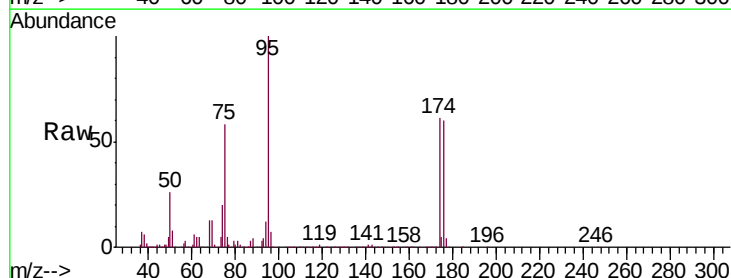
Tgt Ion: 95 Resp: 1947564

Ion Ratio Lower Upper

95 100

174 63.5 50.6 76.0

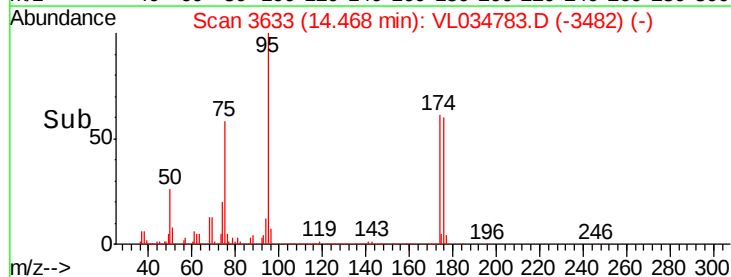
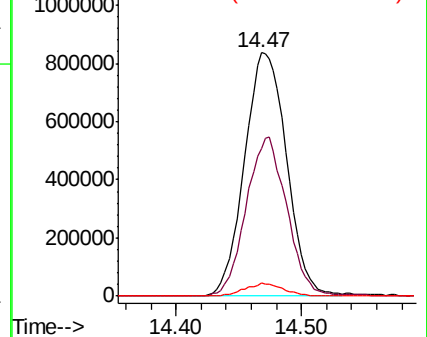
175 4.8 3.8 5.6

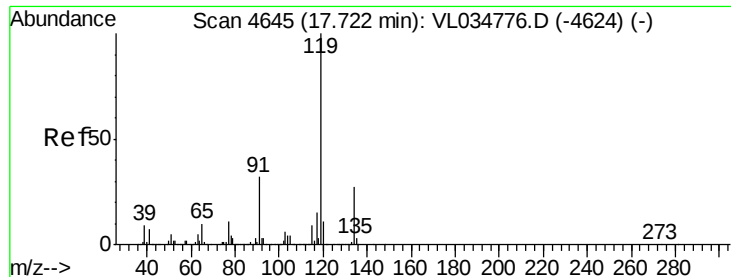


Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V

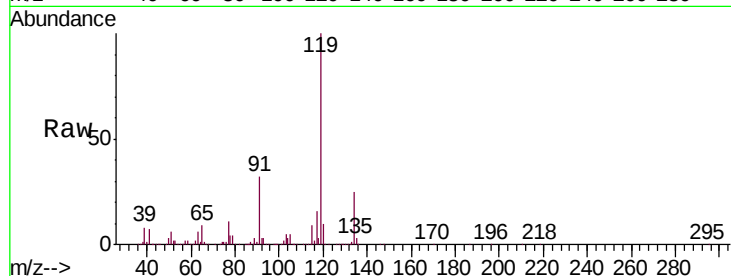




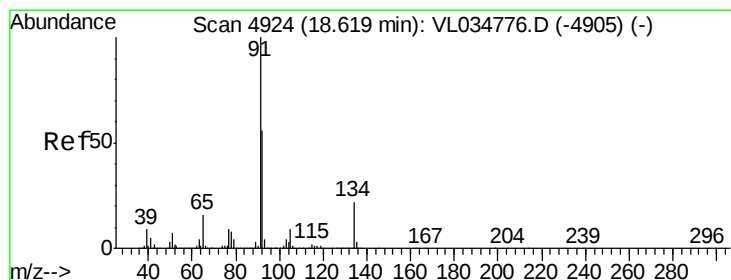
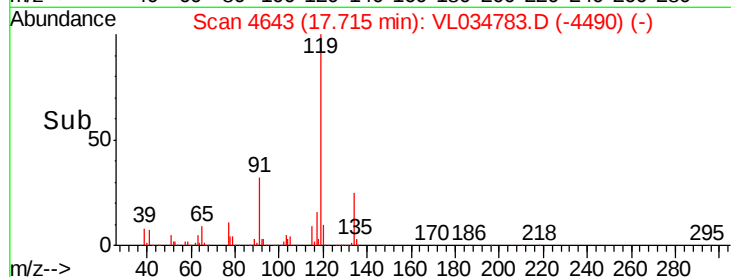
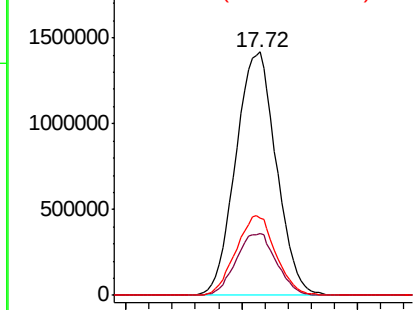
#69
p-Isopropyltoluene
Concen: 9.204 ppbv
RT: 17.72 min Scan# 4643
Delta R.T. -0.01 min
Lab File: VL034783.D
Acq: 4 Mar 2020 5:54

Instrument :
MSVOA_L
ClientSampleId :
ICVVL030420

Tgt Ion: 119 Resp: 3439178
Ion Ratio Lower Upper
119 100
134 25.3 20.6 30.8
91 32.1 25.3 37.9

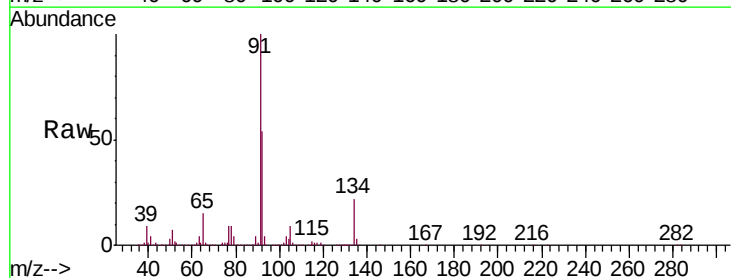


Abundance Ion 119.10 (118.80 to 119.80): V
Ion 134.20 (133.90 to 134.90): V
Ion 91.10 (90.80 to 91.80): V

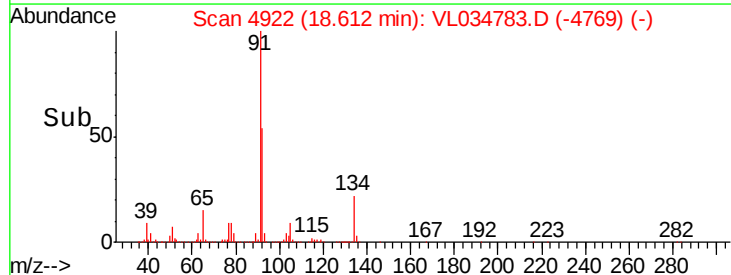
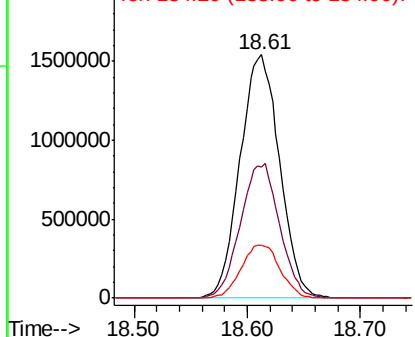


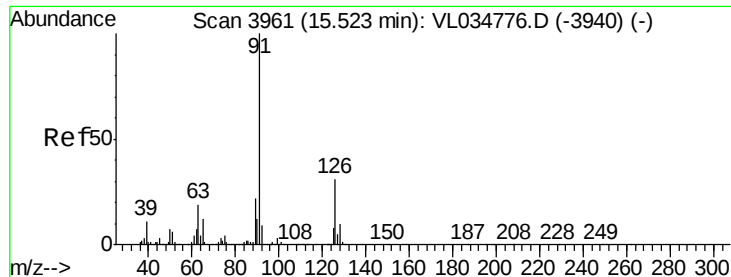
#70
n-Butylbenzene
Concen: 9.160 ppbv
RT: 18.61 min Scan# 4922
Delta R.T. -0.01 min
Lab File: VL034783.D
Acq: 4 Mar 2020 5:54

Tgt Ion: 91 Resp: 3742838
Ion Ratio Lower Upper
91 100
92 54.8 44.0 66.0
134 21.6 17.7 26.5



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

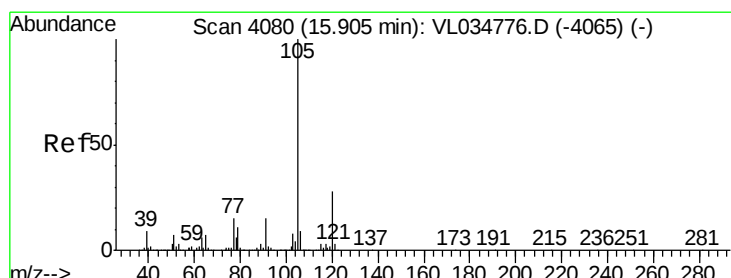
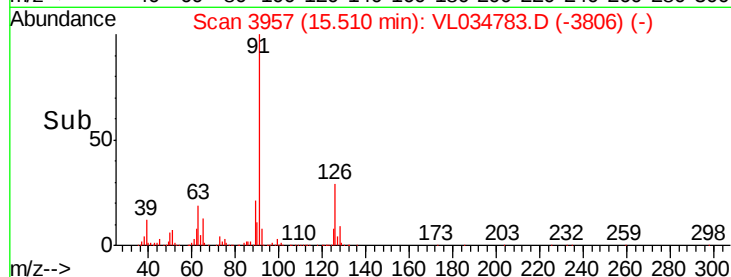
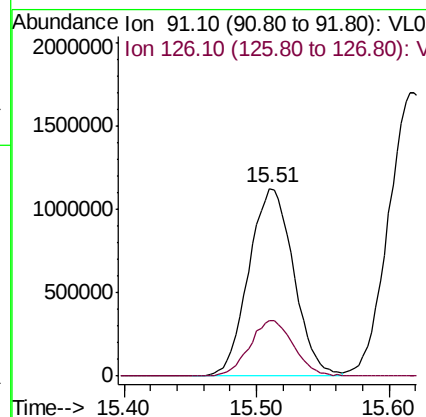
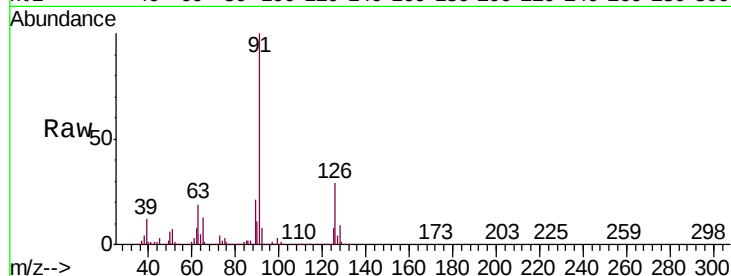




#71
 2-Chlorotoluene
 Concen: 9.399 ppbv
 RT: 15.51 min Scan# 3957
 Delta R.T. -0.01 min
 Lab File: VL034783.D
 Acq: 4 Mar 2020 5:54

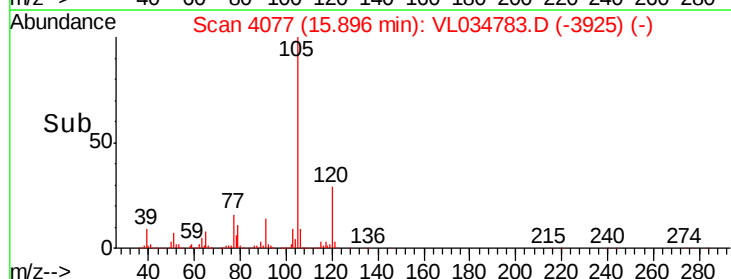
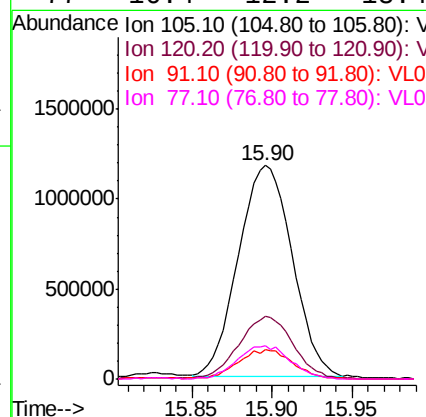
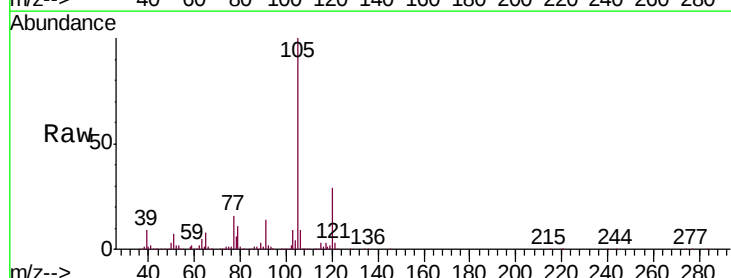
Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL030420

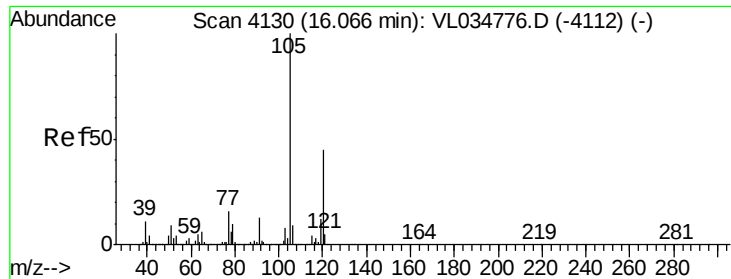
Tgt Ion: 91 Resp: 2661780
 Ion Ratio Lower Upper
 91 100
 126 29.1 11.7 46.7



#72
 4-Ethyltoluene
 Concen: 9.514 ppbv
 RT: 15.90 min Scan# 4077
 Delta R.T. -0.01 min
 Lab File: VL034783.D
 Acq: 4 Mar 2020 5:54

Tgt Ion: 105 Resp: 2698738
 Ion Ratio Lower Upper
 105 100
 120 30.8 23.0 34.6
 91 13.9 11.1 16.7
 77 16.4 12.2 18.4

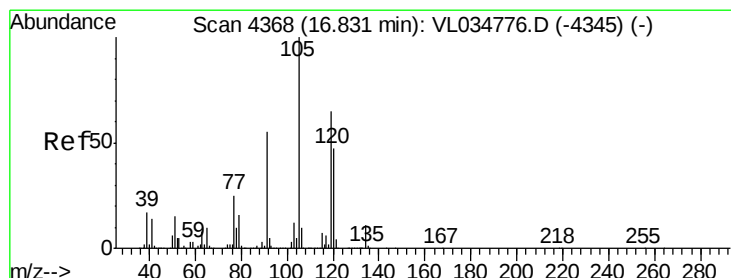
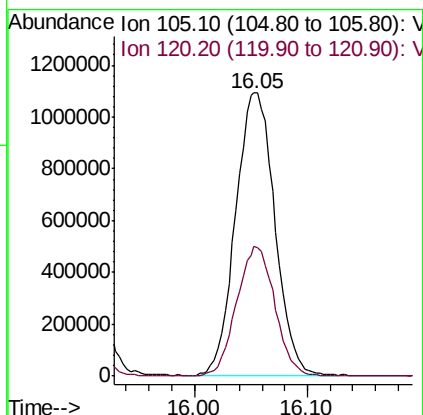
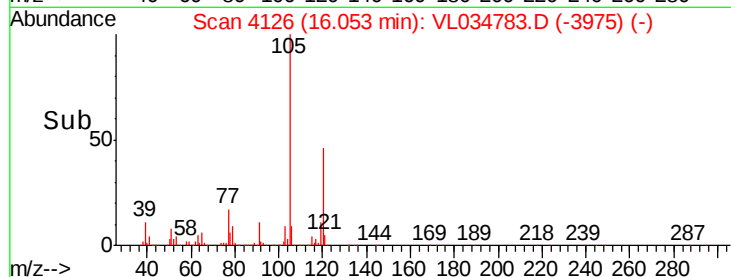
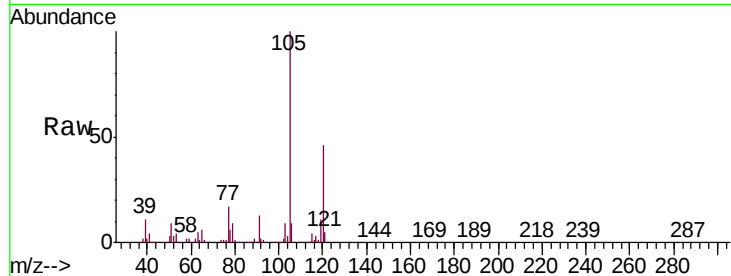




#73
 1,3,5-Trimethylbenzene
 Concen: 9.639 ppbv
 RT: 16.05 min Scan# 4126
 Delta R.T. -0.01 min
 Lab File: VL034783.D
 Acq: 4 Mar 2020 5:54

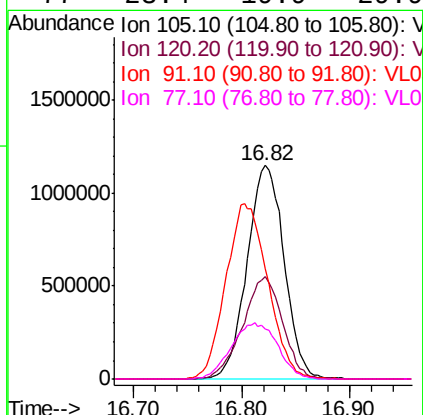
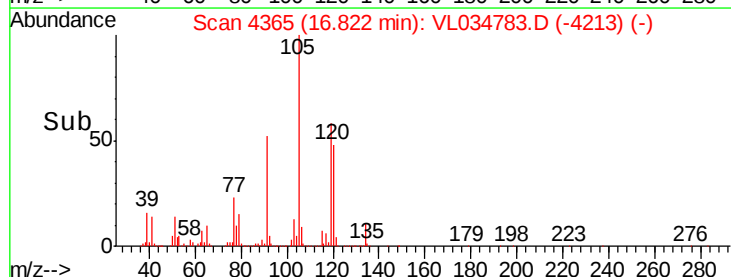
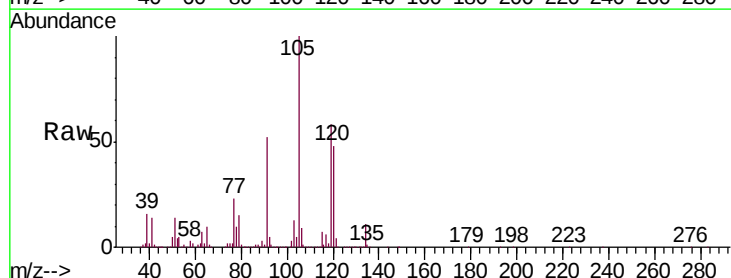
Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL030420

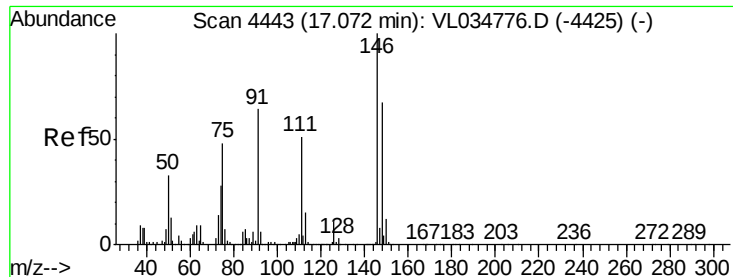
Tgt Ion:105 Resp: 2622711
 Ion Ratio Lower Upper
 105 100
 120 46.1 35.6 53.4



#74
 1,2,4-Trimethylbenzene
 Concen: 9.266 ppbv
 RT: 16.82 min Scan# 4365
 Delta R.T. -0.01 min
 Lab File: VL034783.D
 Acq: 4 Mar 2020 5:54

Tgt Ion:105 Resp: 2740841
 Ion Ratio Lower Upper
 105 100
 120 48.0 37.8 56.6
 91 51.5 43.8 65.8
 77 23.4 19.9 29.9





#75

1,3-Dichlorobenzene

Concen: 8.929 ppbv

RT: 17.06 min Scan# 4440

Delta R.T. -0.01 min

Lab File: VL034783.D

Acq: 4 Mar 2020 5:54

Instrument :

MSVOA_L

ClientSampleId :

ICVVL030420

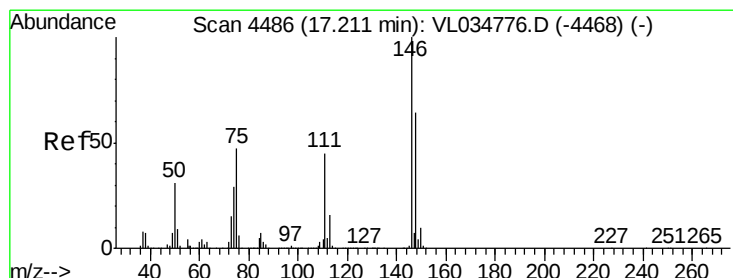
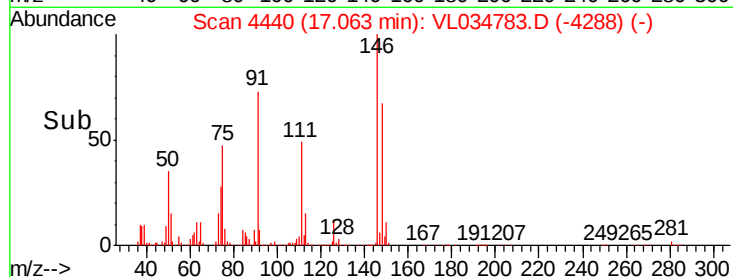
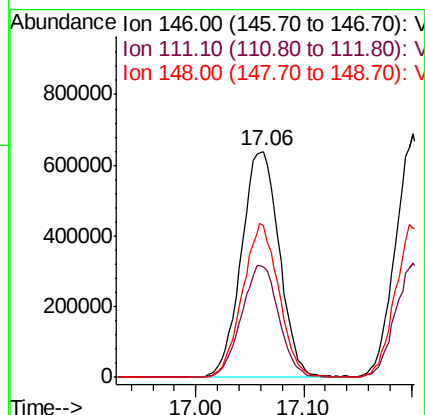
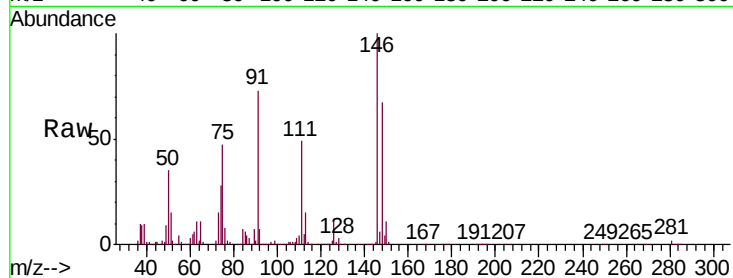
Tgt Ion:146 Resp: 1563435

Ion Ratio Lower Upper

146 100

111 48.7 24.7 74.1

148 65.1 31.8 95.4



#76

1,4-Dichlorobenzene

Concen: 9.321 ppbv

RT: 17.20 min Scan# 4483

Delta R.T. -0.01 min

Lab File: VL034783.D

Acq: 4 Mar 2020 5:54

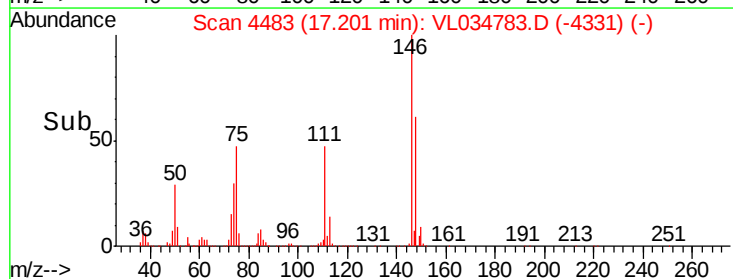
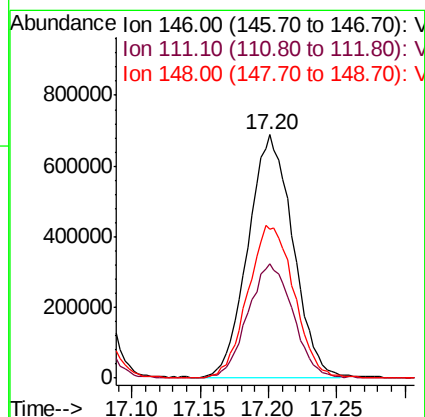
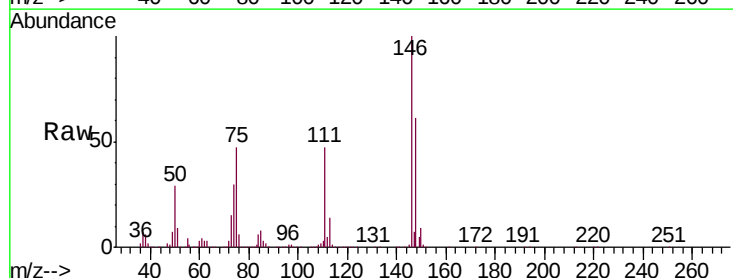
Tgt Ion:146 Resp: 1561785

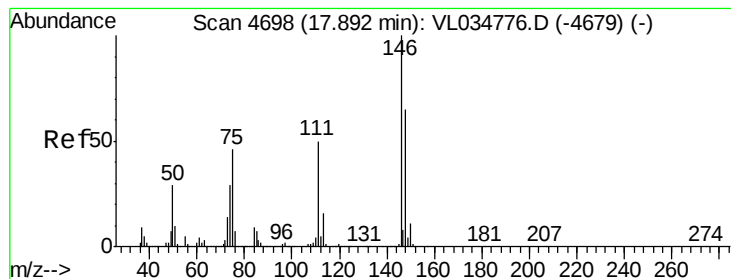
Ion Ratio Lower Upper

146 100

111 47.9 23.5 70.5

148 65.4 32.2 96.6





#77

1,2-Dichlorobenzene

Concen: 9.050 ppbv

RT: 17.88 min Scan# 4694

Delta R.T. -0.01 min

Lab File: VL034783.D

Acq: 4 Mar 2020 5:54

Instrument :

MSVOA_L

ClientSampleId :

ICVVL030420

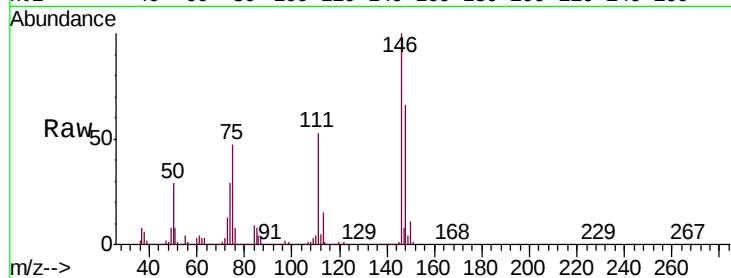
Tgt Ion:146 Resp: 1515925

Ion Ratio Lower Upper

146 100

111 51.1 25.3 75.8

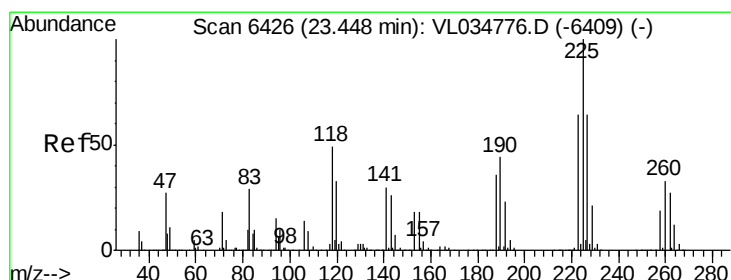
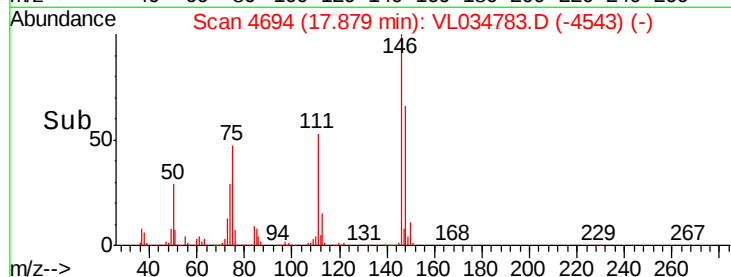
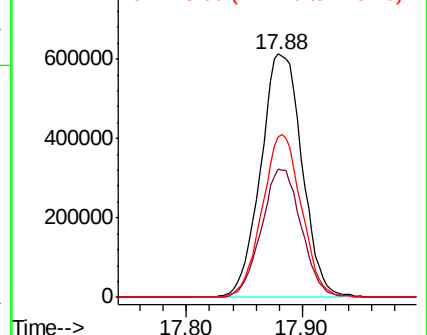
148 63.9 32.3 96.9



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: 8.617 ppbv

RT: 23.44 min Scan# 6423

Delta R.T. -0.01 min

Lab File: VL034783.D

Acq: 4 Mar 2020 5:54

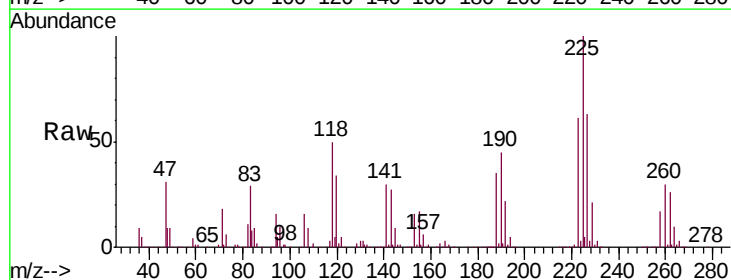
Tgt Ion:225 Resp: 1204500

Ion Ratio Lower Upper

225 100

223 63.4 51.3 76.9

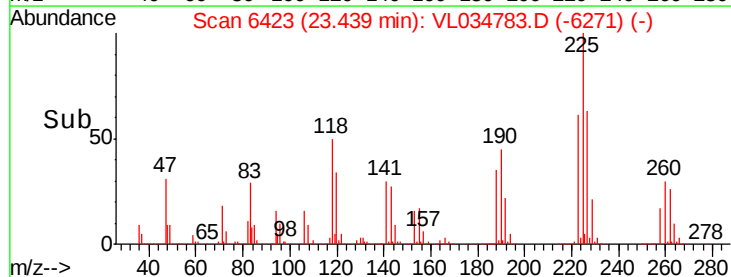
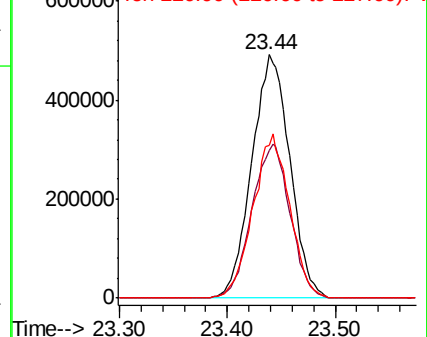
227 64.9 51.9 77.9

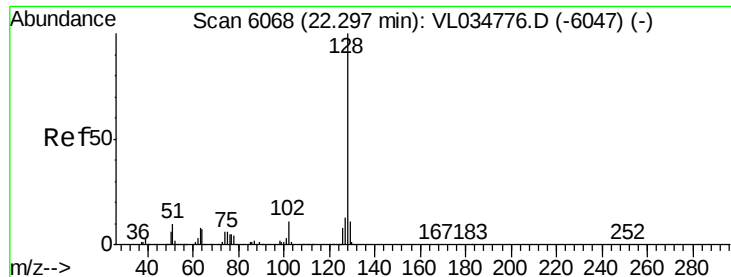


Abundance Ion 224.90 (224.60 to 225.60): V

Ion 222.90 (222.60 to 223.60): V

Ion 226.90 (226.60 to 227.60): V





#79

Naphthalene

Concen: 11.779 ppbv

RT: 22.28 min Scan# 6063

Delta R.T. -0.02 min

Lab File: VL034783.D

Acq: 4 Mar 2020 5:54

Instrument :

MSVOA_L

ClientSampleId :

ICVVL030420

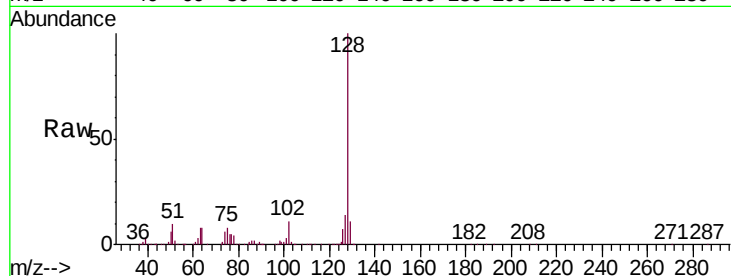
Tgt Ion:128 Resp: 2618176

Ion Ratio Lower Upper

128 100

127 14.3 10.2 15.4

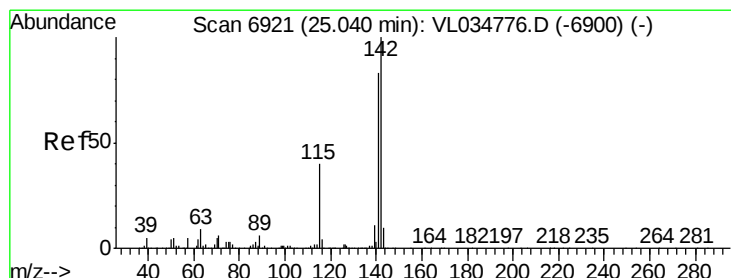
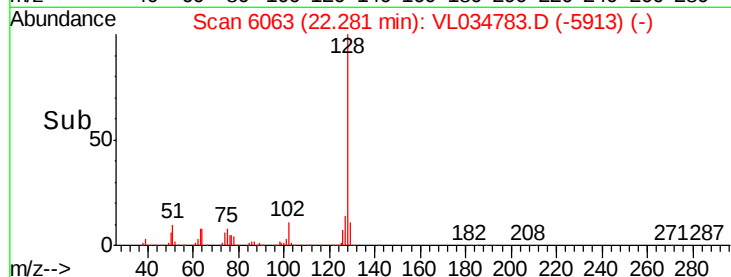
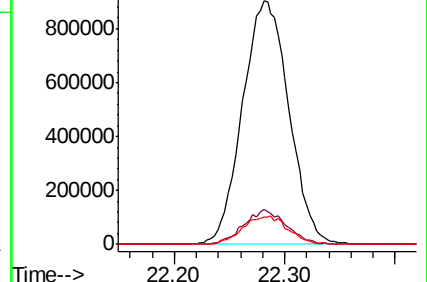
129 11.2 9.0 13.6



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: 11.164 ppbv

RT: 25.03 min Scan# 6917

Delta R.T. -0.01 min

Lab File: VL034783.D

Acq: 4 Mar 2020 5:54

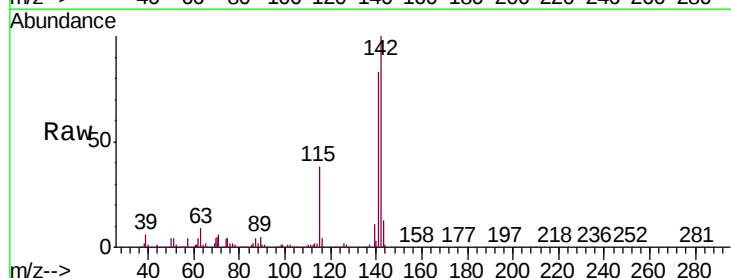
Tgt Ion:142 Resp: 592716

Ion Ratio Lower Upper

142 100

141 83.4 67.7 101.5

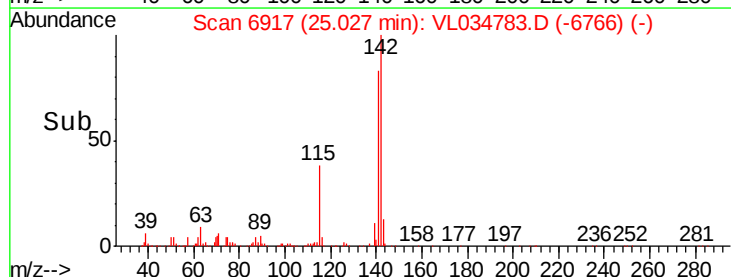
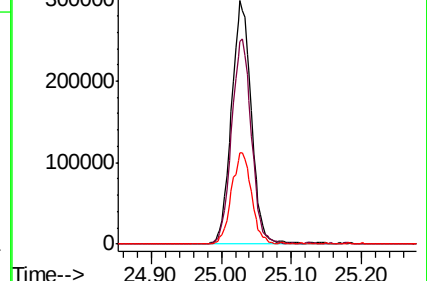
115 37.8 30.7 46.1

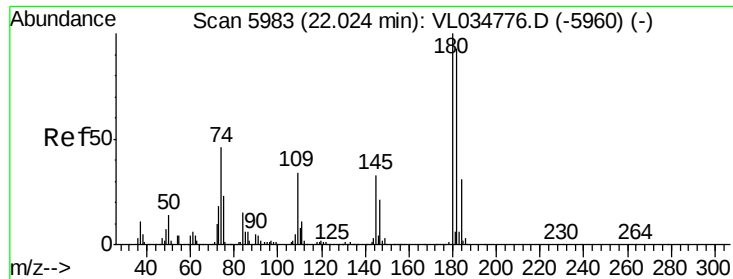


Abundance Ion 142.00 (141.70 to 142.70): V

Ion 141.00 (140.70 to 141.70): V

Ion 115.00 (114.70 to 115.70): V





#81

1,2,4-Trichlorobenzene

Concen: 10.034 ppbv

RT: 22.01 min Scan# 5979

Delta R.T. -0.01 min

Lab File: VL034783.D

Acq: 4 Mar 2020 5:54

Instrument :

MSVOA_L

ClientSampleId :

ICVVL030420

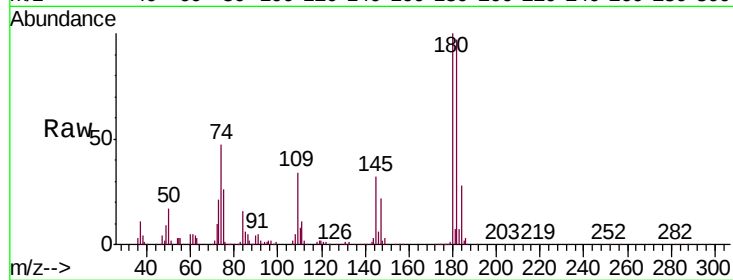
Tgt Ion:180 Resp: 1409906

Ion Ratio Lower Upper

180 100

182 97.7 76.8 115.2

184 31.0 24.8 37.2



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

