

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL081219\
 Data File : VL034102.D
 Acq On : 12 Aug 2019 12:59
 Operator : SY/AP
 Sample : VL0812ABS01
 Misc : 400ml/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0812ABS01

Quant Time: Aug 13 04:03:26 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL080519AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Aug 05 17:09:48 2019
 QLast Update : Mon Aug 05 17:09:48 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.72	49	1195894	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.24	114	2387197	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.18	117	3074329	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.52	95	2114330	8.48	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	84.80%

Target Compounds						Qvalue
2) Dichlorodifluoromethane	3.05	85	1453129	9.873	ppbv	98
3) Chlorodifluoromethane	2.98	51	1174019	8.490	ppbv	97
4) Chloromethane	3.14	50	764516	8.575	ppbv	99
5) Vinyl Chloride	3.26	62	675877	8.604	ppbv	100
6) Bromomethane	3.48	94	360544	8.882	ppbv	95
7) Chloroethane	3.56	64	245259	8.334	ppbv	99
8) Dichlorotetrafluoroethane	3.19	85	1398563	8.237	ppbv	94
9) Propene	3.01	41	684114	8.391	ppbv	99
10) Heptane	8.19	43	1749424	8.295	ppbv	98
11) Trichlorofluoromethane	3.97	101	1443399	8.272	ppbv	98
12) 1,1,2-Trichlorotrifluoroet	4.51	101	1015836	8.250	ppbv	93
13) Ethanol	3.62	45	130555	5.682	ppbv	98
14) Bromoethene	3.75	108	452045	8.221	ppbv	98
15) Acetone	3.87	43	1249264	7.310	ppbv	99
16) 1,3-Butadiene	3.33	39	683224	8.221	ppbv	100
17) tert-Butyl alcohol	4.32	59	1232797	7.731	ppbv	100
18) 1,1-Dichloroethene	4.31	96	465815	7.999	ppbv	94
19) Isopropyl Alcohol	3.99	45	988447	7.428	ppbv	# 46
20) Methylene Chloride	4.37	84	417509	8.147	ppbv	96
21) Allyl Chloride	4.44	41	953021	8.057	ppbv	98
22) trans-1,2-Dichloroethene	4.92	96	481859	8.515	ppbv	100
23) Vinyl Acetate	5.11	43	2254948	7.958	ppbv	99
24) 1,1-Dichloroethane	5.05	63	1444708	8.569	ppbv	99
25) Ethyl Acetate	5.72	43	2668502	7.939	ppbv	100
26) Hexane	5.73	57	1165615	8.181	ppbv	97
27) Carbon Disulfide	4.58	76	1284853	8.554	ppbv	99
28) Methyl tert-Butyl Ether	5.07	73	1948232	8.177	ppbv	99
29) Chloroform	5.80	83	1686497	8.708	ppbv	99
30) Cyclohexane	7.19	84	967534	8.597	ppbv	98
31) cis-1,2-Dichloroethene	5.60	61	1201946	8.541	ppbv	97
32) 1,1,1-Trichloroethane	6.57	97	1597653	8.335	ppbv	99
34) 2-Butanone	5.28	43	1889532	8.514	ppbv	98
35) Carbon Tetrachloride	7.08	117	1545143	8.433	ppbv	98
36) Benzene	6.96	78	2325212	8.570	ppbv	98
37) 1,2-Dichloroethane	6.36	62	1330732	9.116	ppbv	100
38) Trichloroethene	7.91	130	444251	4.228	ppbv	93
39) 1,2-Dichloropropane	7.69	63	975812	8.913	ppbv	99
40) 1,4-Dioxane	7.90	88	352659	8.537	ppbv	# 96
41) Tetrahydrofuran	6.10	42	1181658	8.655	ppbv	99
42) Bromodichloromethane	7.87	83	1861433	9.095	ppbv	98
43) Methyl Methacrylate	8.08	69	974837	8.759	ppbv	99

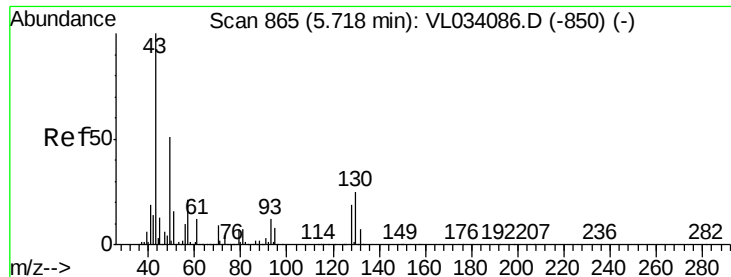
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 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Aug 05 17:09:48 2019
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 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.94	57	3951925	8.135	ppbv	99
45) t-1,3-Dichloropropene	9.36	75	1278039	9.059	ppbv	99
46) cis-1,3-Dichloropropene	8.78	75	1442615	8.860	ppbv	98
47) 1,1,2-Trichloroethane	9.56	97	918998	8.781	ppbv	98
48) Dibromochloromethane	10.40	129	1436756	8.561	ppbv	100
49) Bromoform	13.14	173	1283259	8.552	ppbv	98
50) 4-Methyl-2-Pentanone	8.81	43	2795630	8.276	ppbv	100
51) 2-Hexanone	10.22	43	2417905	8.518	ppbv #	99
52) Tetrachloroethene	11.31	164	760328	7.256	ppbv	98
53) Toluene	9.89	91	2581202	8.244	ppbv	99
54) 1,2-Dibromoethane	10.70	107	1349244	8.509	ppbv	98
56) 1,1,1,2-Tetrachloroethane	12.22	131	933282	6.640	ppbv	95
57) Chlorobenzene	12.24	112	1806772	6.526	ppbv #	96
58) Ethyl Benzene	12.81	91	3476663	6.725	ppbv	98
59) m/p-Xylene	13.09	91	2574861	6.205	ppbv #	27
60) o-Xylene	13.79	91	2725067	6.571	ppbv	98
61) Styrene	13.63	104	2184104	6.636	ppbv	97
62) Isopropylbenzene	14.77	105	3584437	6.439	ppbv	100
63) 1,1,2,2-Tetrachloroethane	13.78	83	1951509	6.515	ppbv	100
64) n-propylbenzene	15.66	120	960198	6.527	ppbv	93
65) tert-Butylbenzene	16.85	119	3071691	6.195	ppbv	96
66) Benzyl Chloride	17.10	91	1856212	6.763	ppbv	97
67) sec-Butylbenzene	17.40	105	4366341	6.240	ppbv	99
69) p-Isopropyltoluene	17.76	119	3625397	6.281	ppbv	98
70) n-Butylbenzene	18.66	91	4101473	6.587	ppbv	98
71) 2-Chlorotoluene	15.56	91	2960330	6.614	ppbv	98
72) 4-Ethyltoluene	15.94	105	3256921	6.673	ppbv	99
73) 1,3,5-Trimethylbenzene	16.10	105	3095956	6.594	ppbv	94
74) 1,2,4-Trimethylbenzene	16.87	105	3064246	6.274	ppbv	96
75) 1,3-Dichlorobenzene	17.11	146	1767170	6.460	ppbv	99
76) 1,4-Dichlorobenzene	17.25	146	1795063	6.422	ppbv	98
77) 1,2-Dichlorobenzene	17.93	146	1760657	6.528	ppbv	98
78) Hexachloro-1,3-Butadiene	23.49	225	1453022	6.796	ppbv	100
79) Naphthalene	22.34	128	3058034	6.028	ppbv	99
80) Naphthalene,2-methyl-	25.06	142	1376499	8.653	ppbv	97
81) 1,2,4-Trichlorobenzene	22.06	180	1735429	6.163	ppbv	100

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



#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.72 min Scan# 865

Delta R.T. -0.00 min

Lab File: VL034102.D

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ClientSampleId :

VL0812ABS01

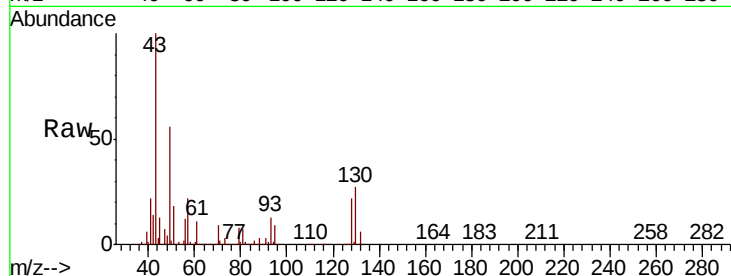
Tgt Ion: 49 Resp: 1195894

Ion Ratio Lower Upper

49 100

128 38.1 19.5 58.5

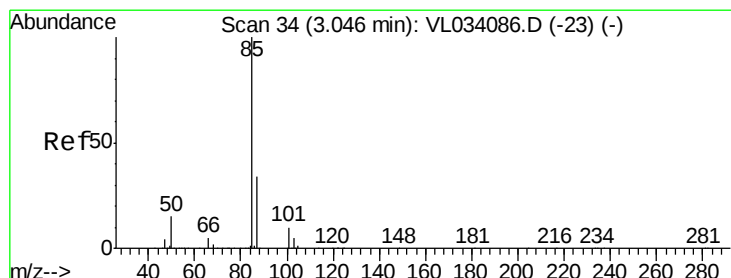
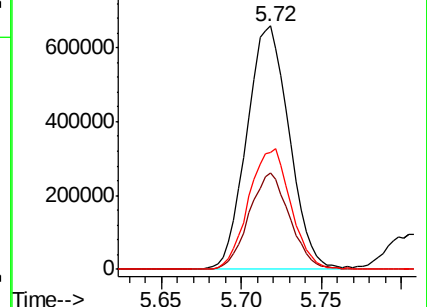
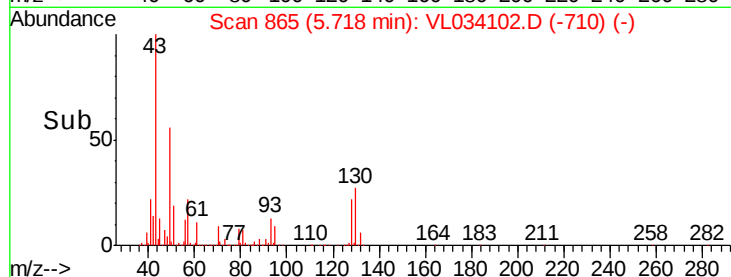
130 49.3 25.4 76.0



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): VL0

Ion 130.00 (129.70 to 130.70): VL0



#2

Dichlorodifluoromethane

Concen: 9.873 ppbv

RT: 3.05 min Scan# 34

Delta R.T. -0.00 min

Lab File: VL034102.D

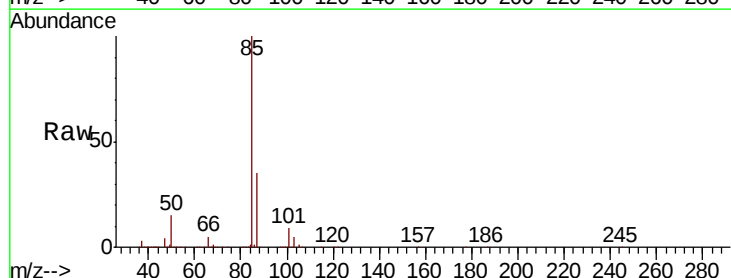
Acq: 12 Aug 2019 12:59

Tgt Ion: 85 Resp: 1453129

Ion Ratio Lower Upper

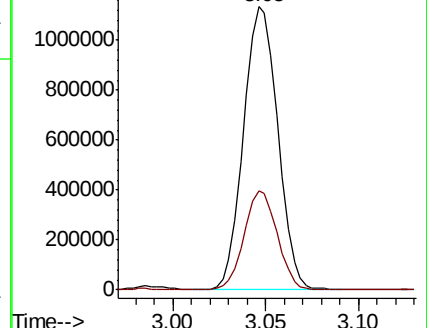
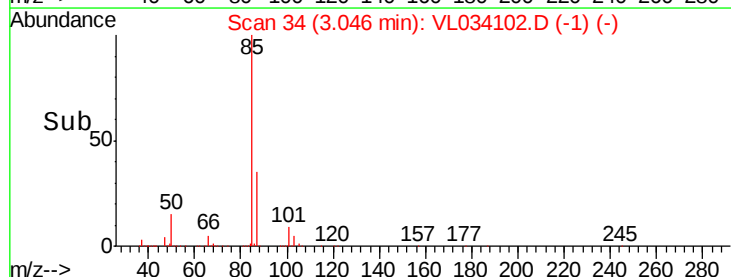
85 100

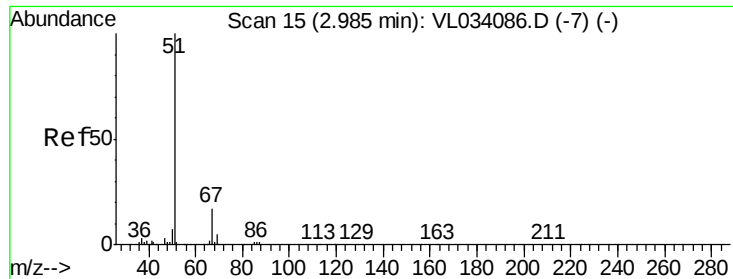
87 35.0 27.1 40.7



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 8.490 ppbv

RT: 2.98 min Scan# 15

Delta R.T. -0.00 min

Lab File: VL034102.D

Acq: 12 Aug 2019 12:59

Instrument :

MSVOA_L

ClientSampleId :

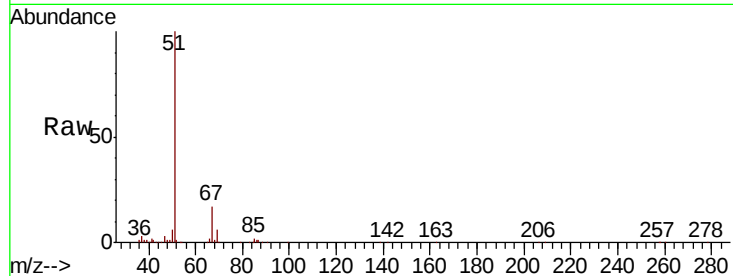
VL0812ABS01

Tgt Ion: 51 Resp: 1174019

Ion Ratio Lower Upper

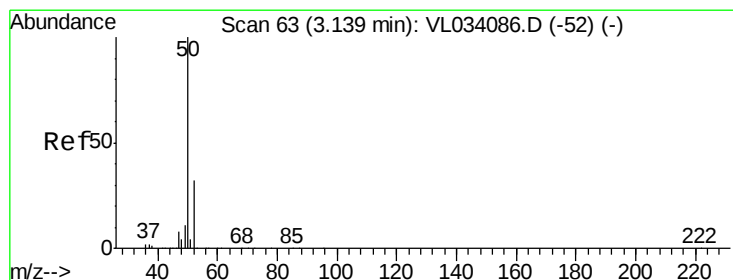
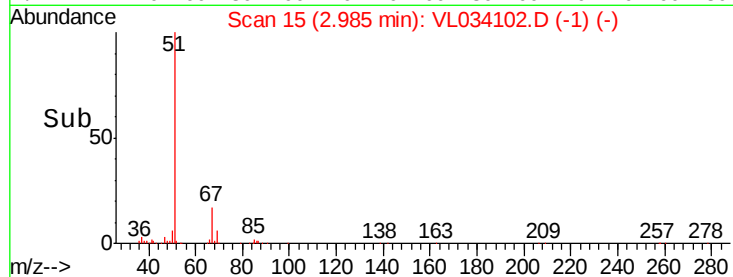
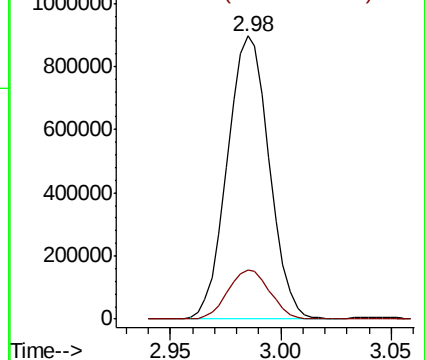
51 100

67 17.7 13.3 19.9



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 8.575 ppbv

RT: 3.14 min Scan# 63

Delta R.T. -0.00 min

Lab File: VL034102.D

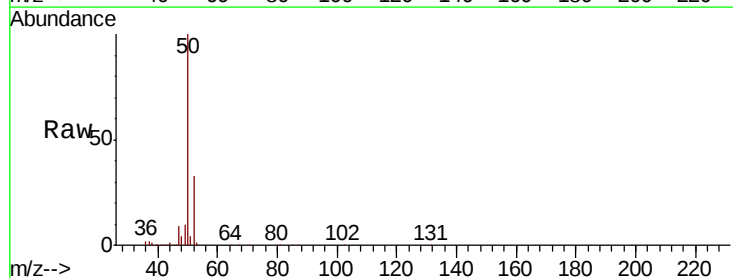
Acq: 12 Aug 2019 12:59

Tgt Ion: 50 Resp: 764516

Ion Ratio Lower Upper

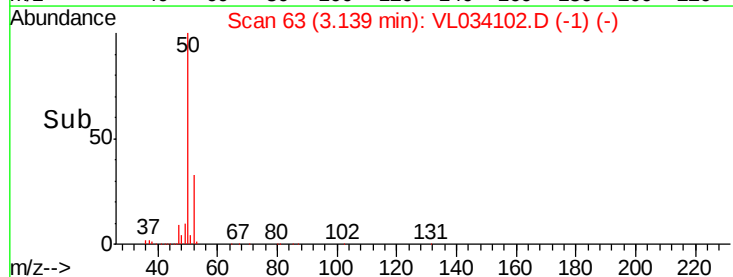
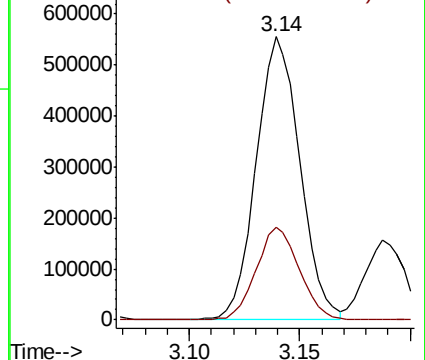
50 100

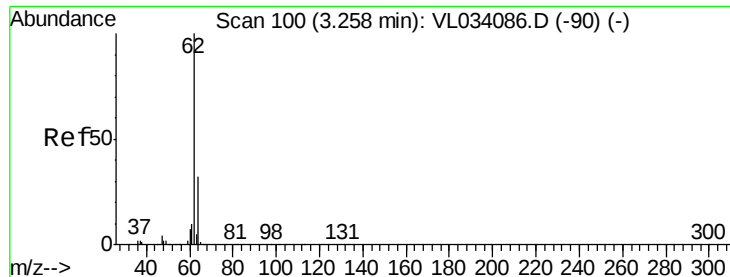
52 32.5 25.7 38.5



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#5

Vinyl Chloride

Concen: 8.604 ppbv

RT: 3.26 min Scan# 101

Delta R.T. 0.00 min

Lab File: VL034102.D

Acq: 12 Aug 2019 12:59

Instrument :

MSVOA_L

ClientSampleId :

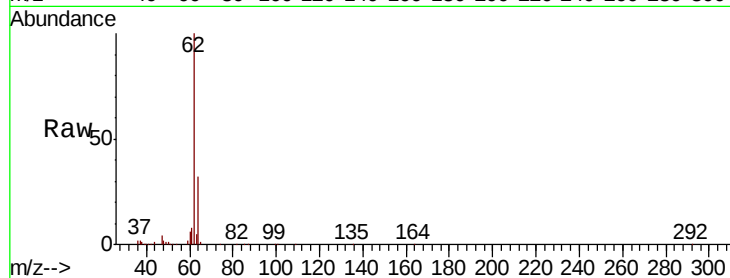
VL0812ABS01

Tgt Ion: 62 Resp: 675877

Ion Ratio Lower Upper

62 100

64 32.2 25.8 38.6



Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 64.10 (63.80 to 64.80): VL0

3.26

500000

400000

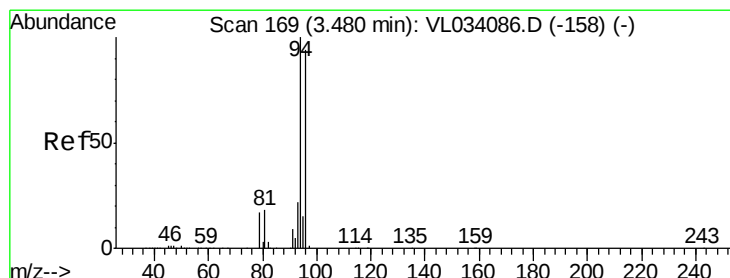
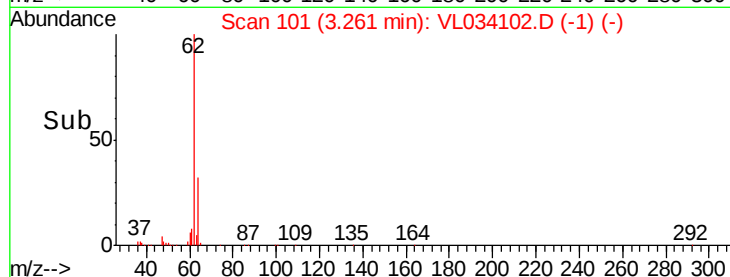
300000

200000

100000

0

Time-->



#6

Bromomethane

Concen: 8.882 ppbv

RT: 3.48 min Scan# 169

Delta R.T. -0.00 min

Lab File: VL034102.D

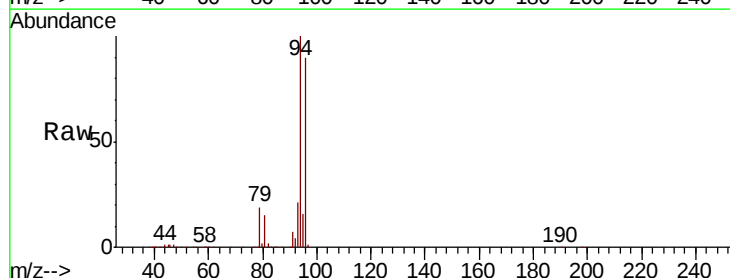
Acq: 12 Aug 2019 12:59

Tgt Ion: 94 Resp: 360544

Ion Ratio Lower Upper

94 100

96 89.5 75.3 112.9



Abundance Ion 94.00 (93.70 to 94.70): VL0

Ion 96.00 (95.70 to 96.70): VL0

3.48

300000

250000

200000

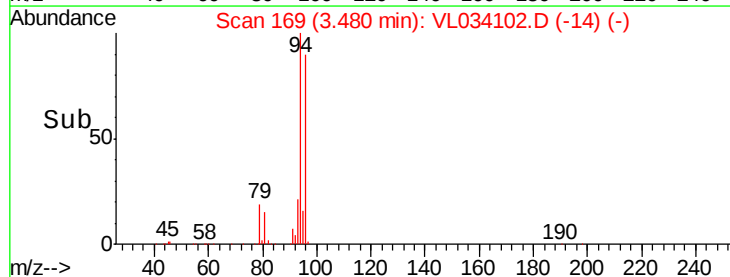
150000

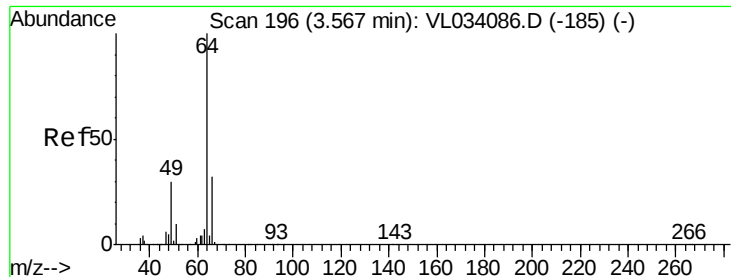
100000

50000

0

Time-->





#7

Chloroethane

Concen: 8.334 ppbv

RT: 3.56 min Scan# 195

Delta R.T. -0.00 min

Lab File: VL034102.D

Acq: 12 Aug 2019 12:59

Instrument :

MSVOA_L

ClientSampleId :

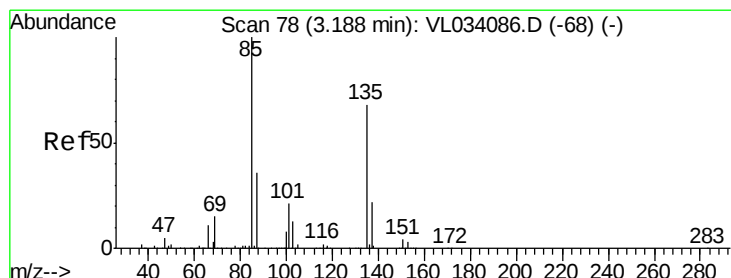
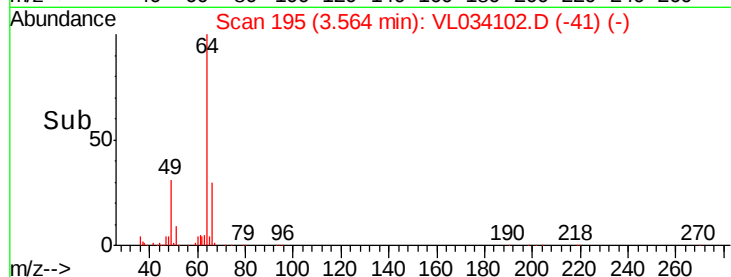
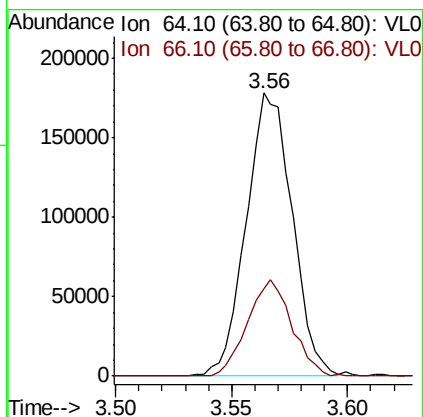
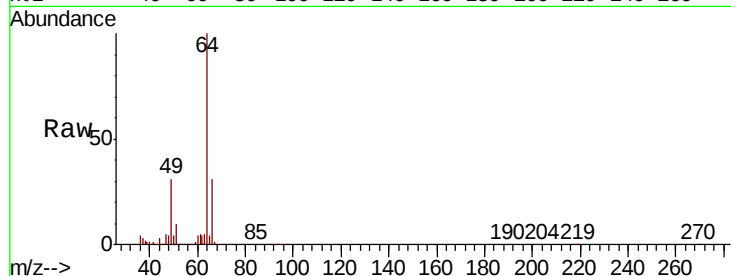
VL0812ABS01

Tgt Ion: 64 Resp: 245259

Ion Ratio Lower Upper

64 100

66 31.0 25.2 37.8



#8

Dichlorotetrafluoroethane

Concen: 8.237 ppbv

RT: 3.19 min Scan# 78

Delta R.T. -0.00 min

Lab File: VL034102.D

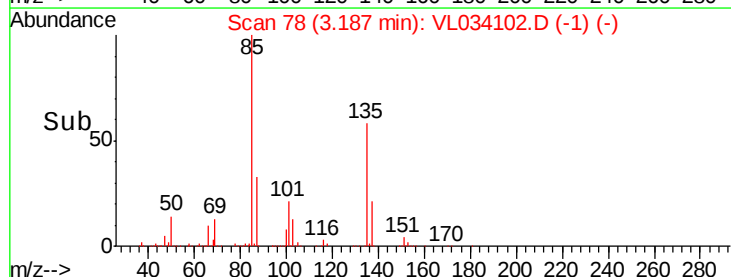
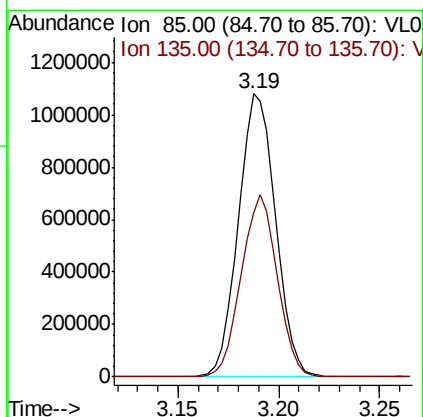
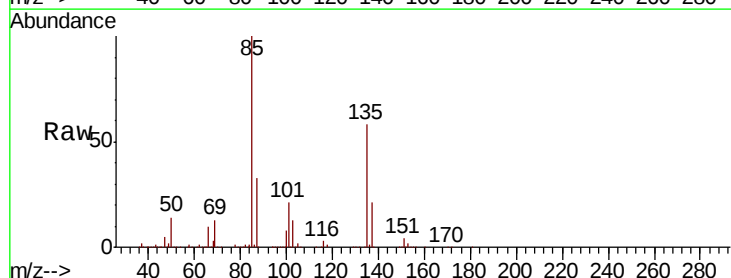
Acq: 12 Aug 2019 12:59

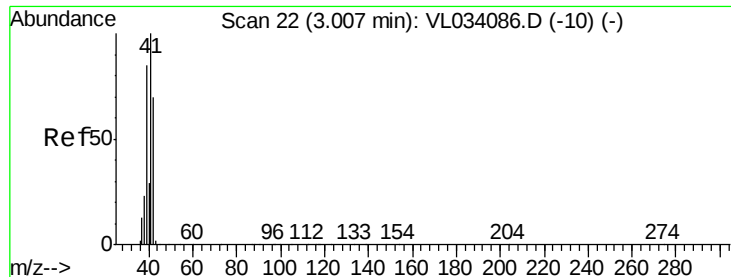
Tgt Ion: 85 Resp: 1398563

Ion Ratio Lower Upper

85 100

135 62.6 54.0 81.0





#9

Propene

Concen: 8.391 ppbv

RT: 3.01 min Scan# 22

Delta R.T. -0.00 min

Lab File: VL034102.D

Acq: 12 Aug 2019 12:59

Instrument :

MSVOA_L

ClientSampleId :

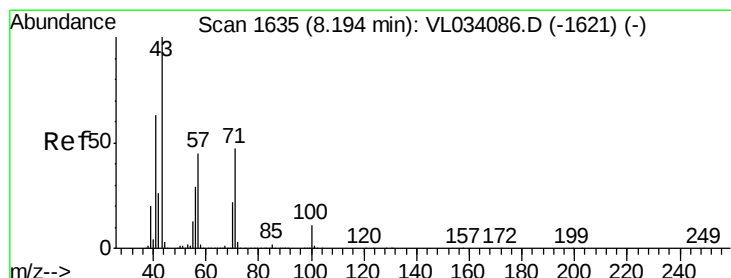
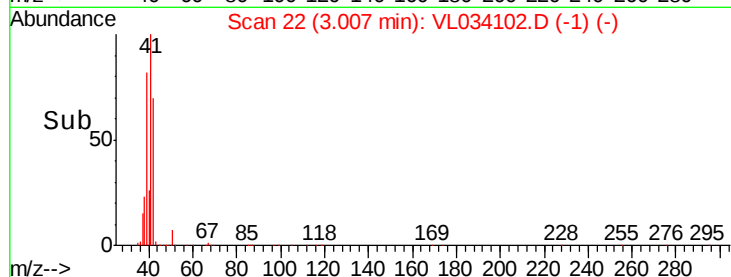
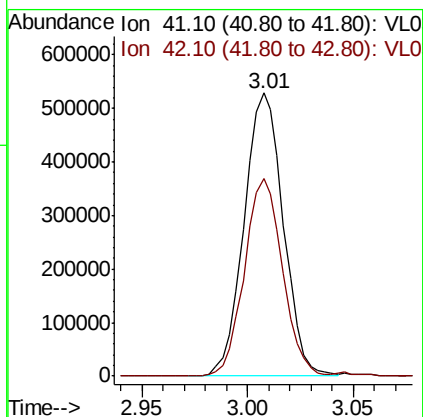
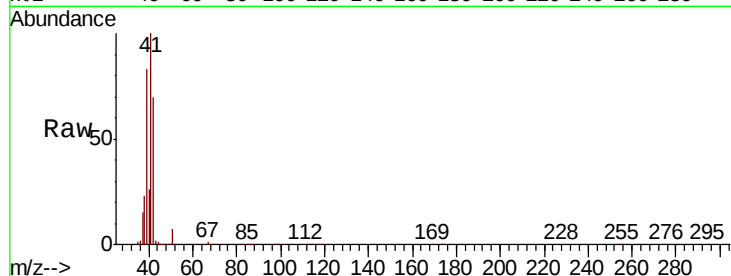
VL0812ABS01

Tgt Ion: 41 Resp: 684114

Ion Ratio Lower Upper

41 100

42 68.7 55.8 83.6



#10

Heptane

Concen: 8.295 ppbv

RT: 8.19 min Scan# 1635

Delta R.T. -0.00 min

Lab File: VL034102.D

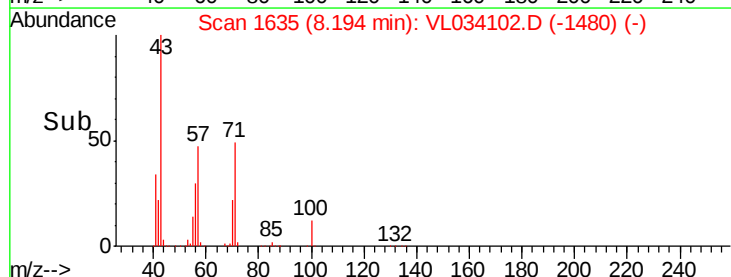
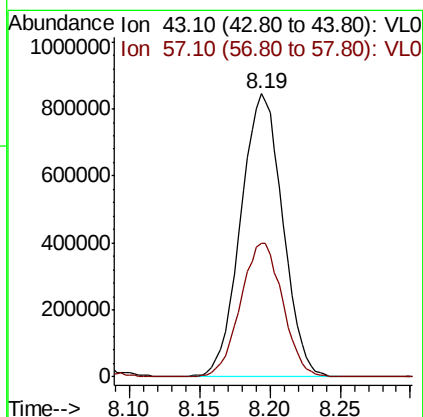
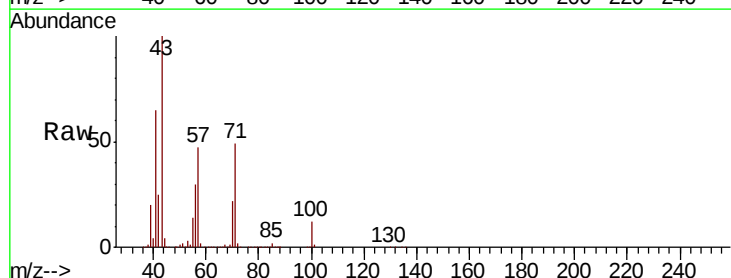
Acq: 12 Aug 2019 12:59

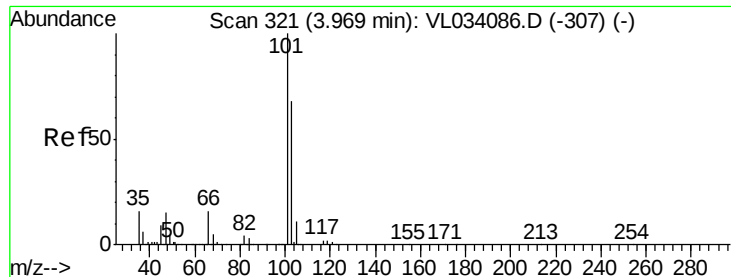
Tgt Ion: 43 Resp: 1749424

Ion Ratio Lower Upper

43 100

57 47.8 37.2 55.8





#11

Trichlorofluoromethane

Concen: 8.272 ppbv

RT: 3.97 min Scan# 320

Delta R.T. -0.00 min

Lab File: VL034102.D

Acq: 12 Aug 2019 12:59

Instrument :

MSVOA_L

ClientSampleId :

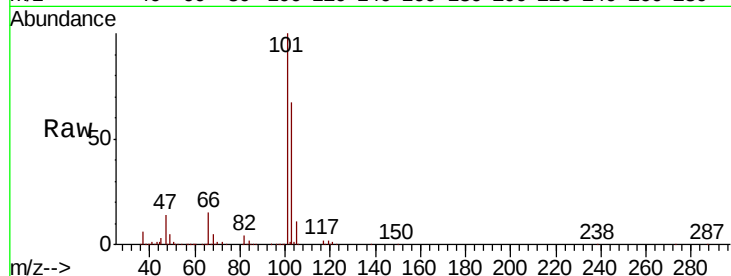
VL0812ABS01

Tgt Ion:101 Resp: 1443399

Ion Ratio Lower Upper

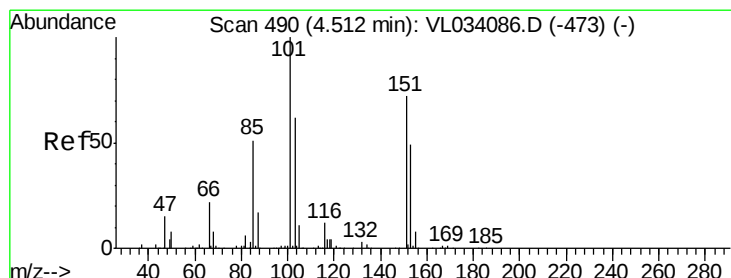
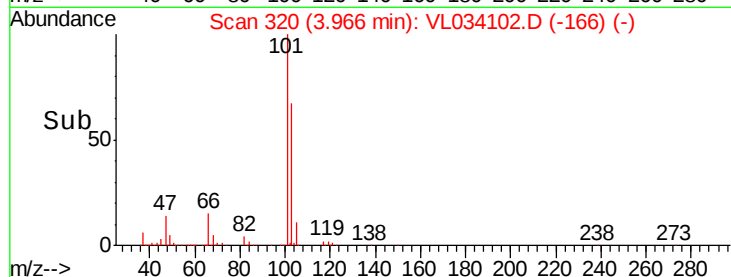
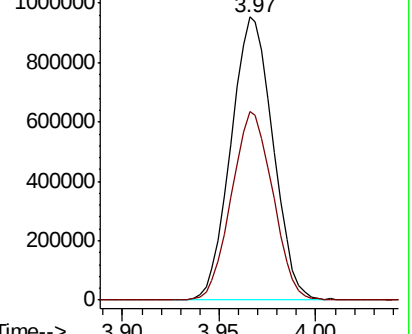
101 100

103 66.7 54.3 81.5



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: 8.250 ppbv

RT: 4.51 min Scan# 489

Delta R.T. -0.00 min

Lab File: VL034102.D

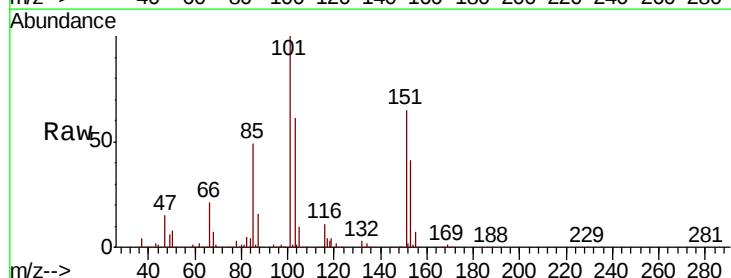
Acq: 12 Aug 2019 12:59

Tgt Ion:101 Resp: 1015836

Ion Ratio Lower Upper

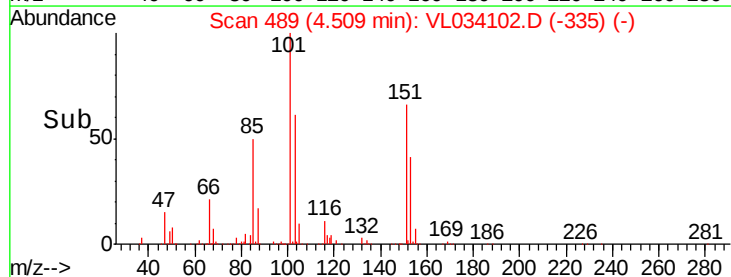
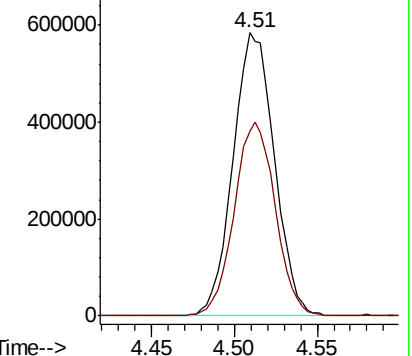
101 100

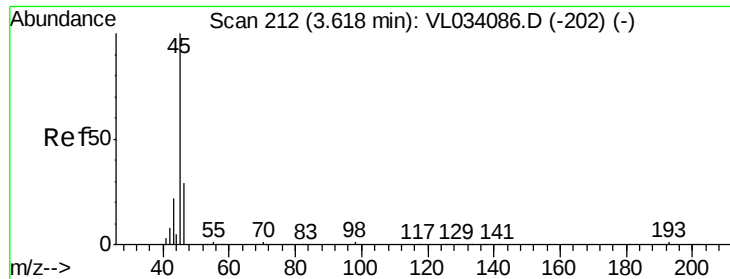
151 68.2 59.4 89.0



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 151.00 (150.70 to 151.70): V

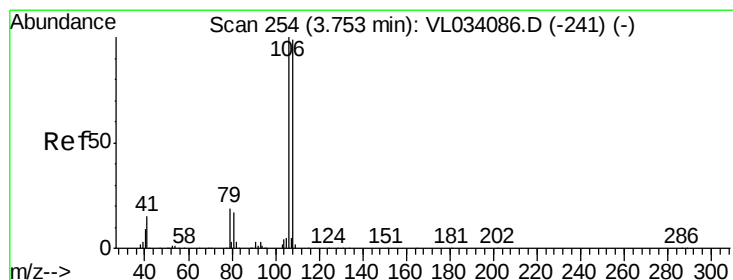
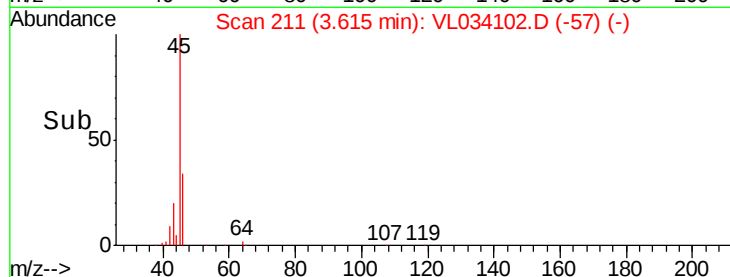
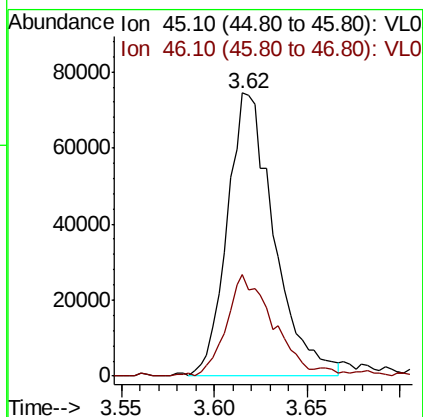
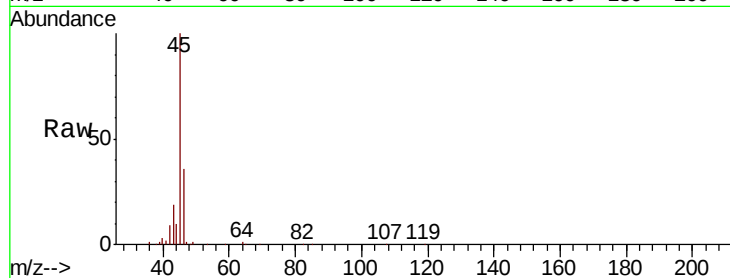




#13
Ethanol
Concen: 5.682 ppbv
RT: 3.62 min Scan# 211
Delta R.T. -0.00 min
Lab File: VL034102.D
Acq: 12 Aug 2019 12:59

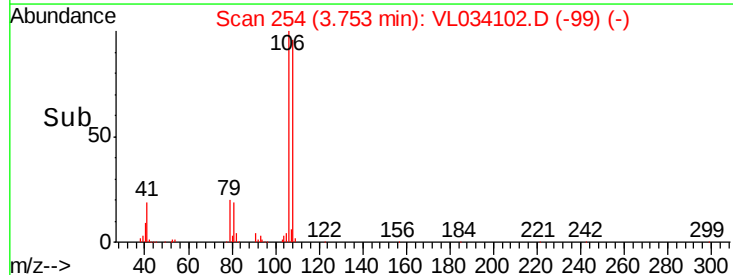
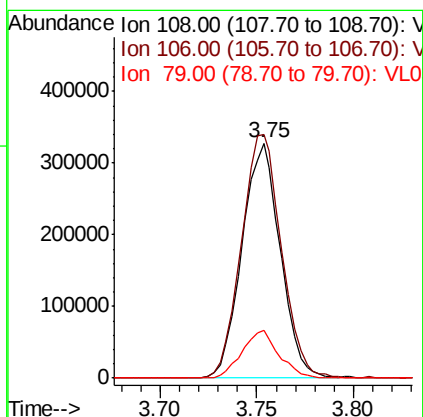
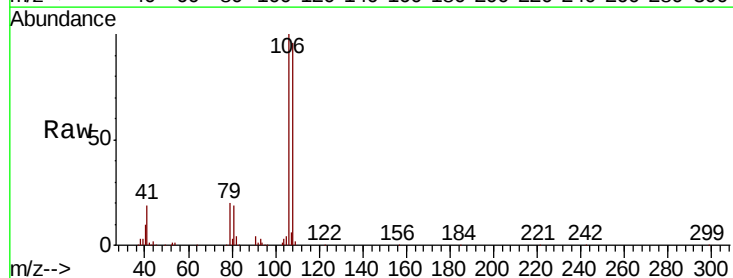
Instrument :
MSVOA_L
ClientSampleId :
VL0812ABS01

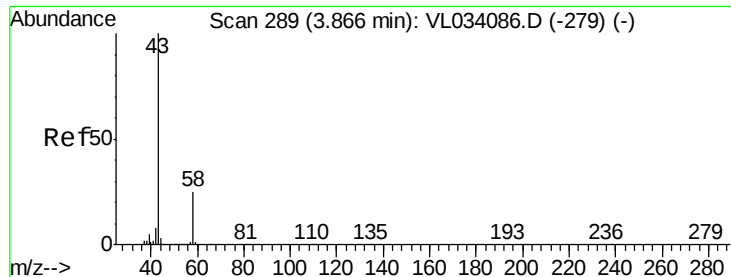
Tgt Ion: 45 Resp: 130555
Ion Ratio Lower Upper
45 100
46 38.5 14.9 59.5



#14
Bromoethene
Concen: 8.221 ppbv
RT: 3.75 min Scan# 254
Delta R.T. -0.00 min
Lab File: VL034102.D
Acq: 12 Aug 2019 12:59

Tgt Ion: 108 Resp: 452045
Ion Ratio Lower Upper
108 100
106 108.8 85.0 127.6
79 19.8 15.8 23.8





#15

Acetone

Concen: 7.310 ppbv

RT: 3.87 min Scan# 289

Delta R.T. -0.00 min

Lab File: VL034102.D

Acq: 12 Aug 2019 12:59

Instrument :

MSVOA_L

ClientSampleId :

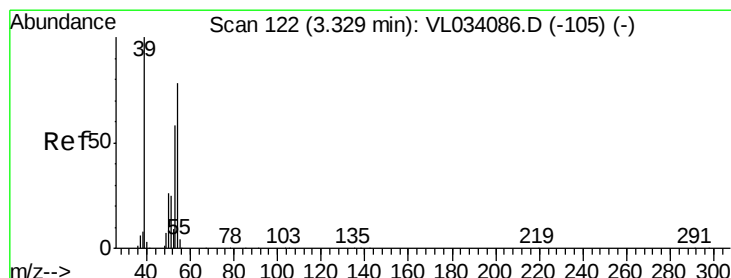
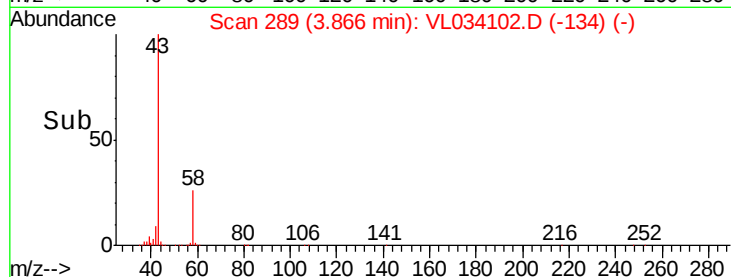
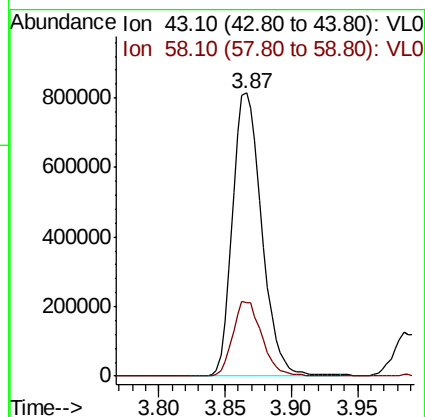
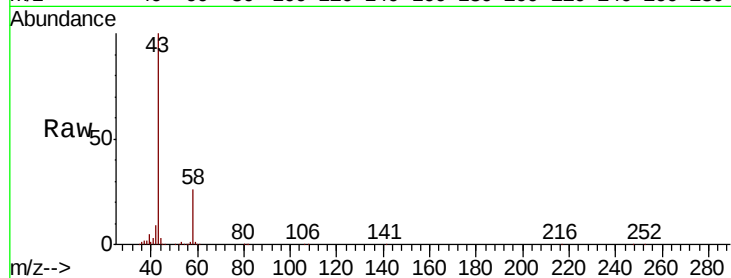
VL0812ABS01

Tgt Ion: 43 Resp: 1249264

Ion Ratio Lower Upper

43 100

58 26.3 20.6 30.8



#16

1,3-Butadiene

Concen: 8.221 ppbv

RT: 3.33 min Scan# 123

Delta R.T. 0.00 min

Lab File: VL034102.D

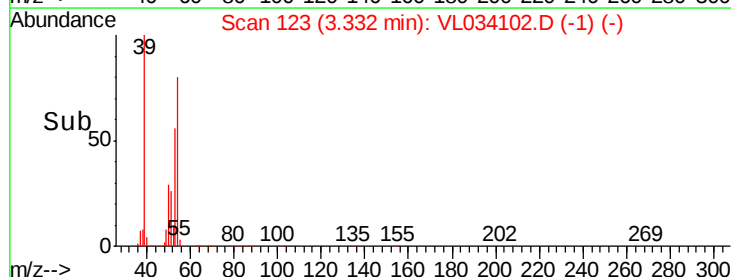
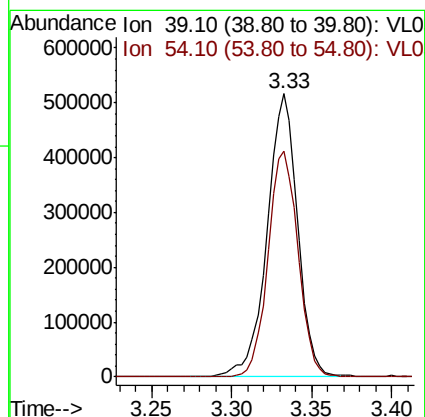
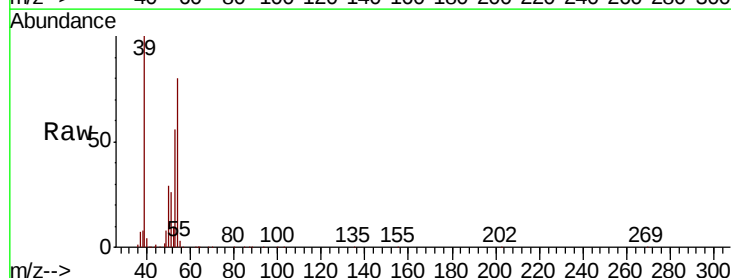
Acq: 12 Aug 2019 12:59

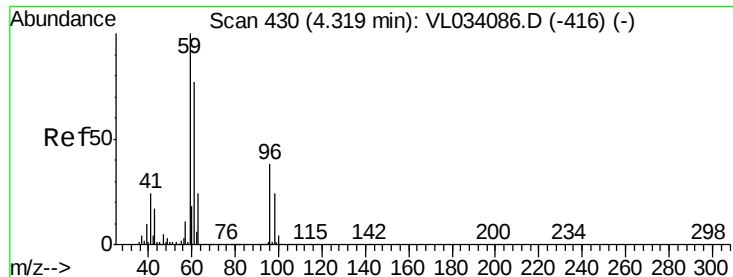
Tgt Ion: 39 Resp: 683224

Ion Ratio Lower Upper

39 100

54 78.6 62.7 94.1





#17

tert-Butyl alcohol

Concen: 7.731 ppbv

RT: 4.32 min Scan# 430

Delta R.T. -0.00 min

Lab File: VL034102.D

Acq: 12 Aug 2019 12:59

Instrument :

MSVOA_L

ClientSampleId :

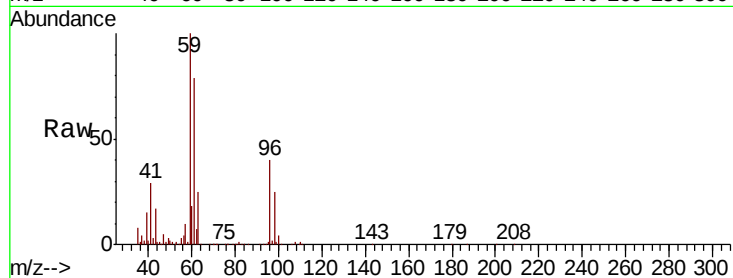
VL0812ABS01

Tgt Ion: 59 Resp: 1232797

Ion Ratio Lower Upper

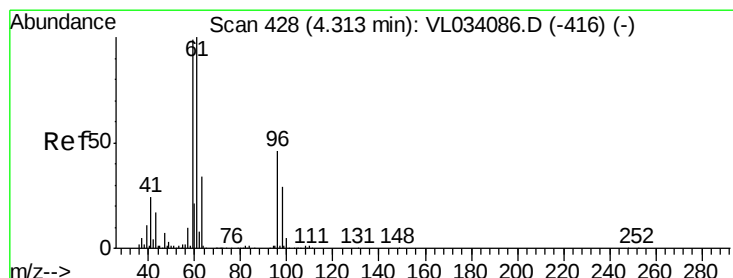
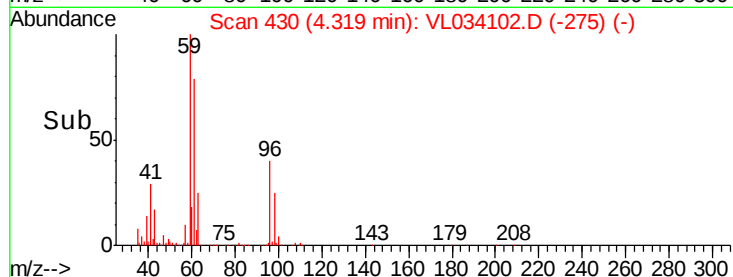
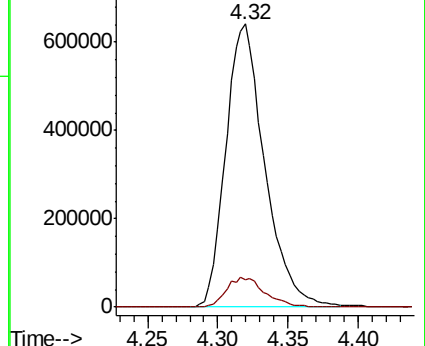
59 100

57 10.7 8.4 12.6



Abundance Ion 59.10 (58.80 to 59.80): VL0

Ion 57.10 (56.80 to 57.80): VL0



#18

1,1-Dichloroethene

Concen: 7.999 ppbv

RT: 4.31 min Scan# 428

Delta R.T. -0.00 min

Lab File: VL034102.D

Acq: 12 Aug 2019 12:59

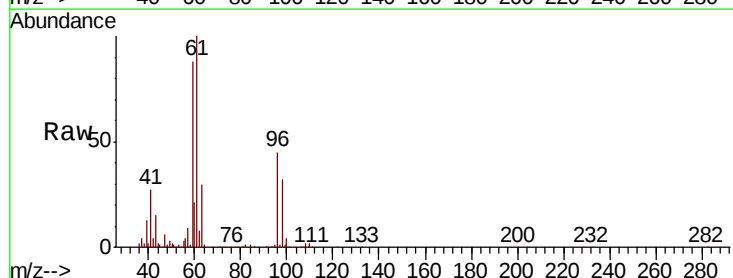
Tgt Ion: 96 Resp: 465815

Ion Ratio Lower Upper

96 100

61 224.2 173.1 259.7

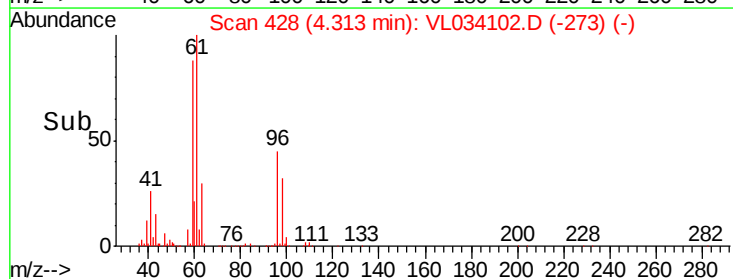
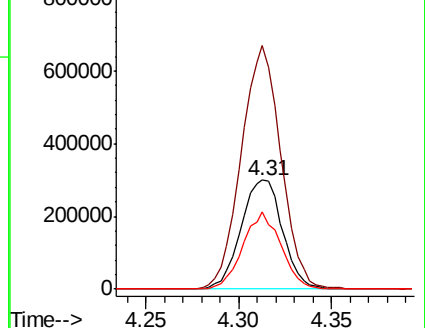
98 71.1 50.3 75.5

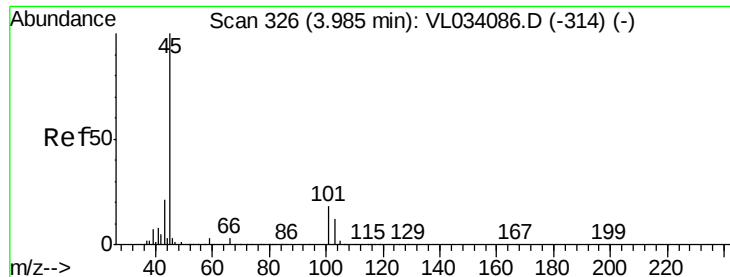


Abundance Ion 96.00 (95.70 to 96.70): VL0

Ion 61.10 (60.80 to 61.80): VL0

Ion 98.00 (97.70 to 98.70): VL0





#19

Isopropyl Alcohol

Concen: 7.428 ppbv

RT: 3.99 min Scan# 327

Delta R.T. 0.00 min

Lab File: VL034102.D

Acq: 12 Aug 2019 12:59

Instrument :

MSVOA_L

ClientSampleId :

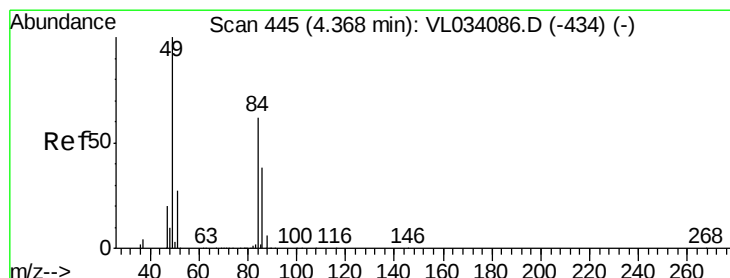
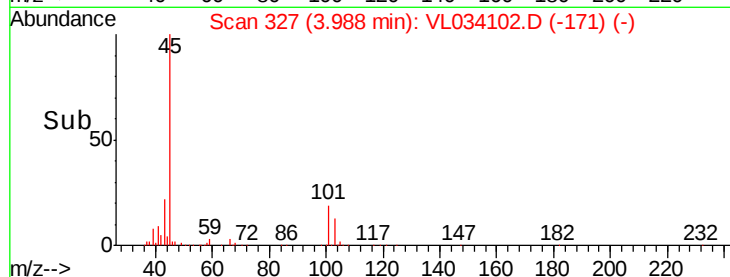
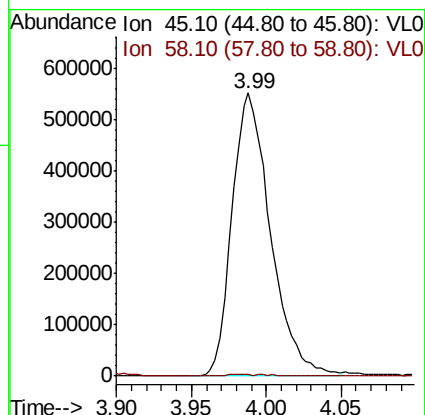
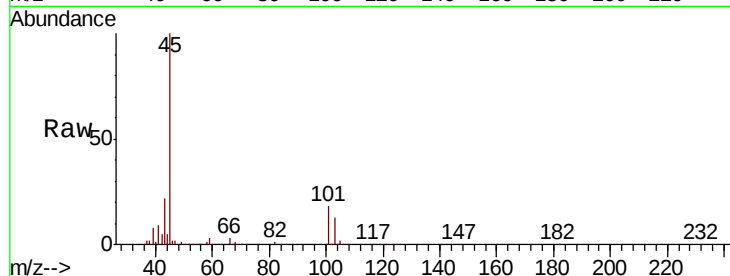
VL0812ABS01

Tgt Ion: 45 Resp: 988447

Ion Ratio Lower Upper

45 100

58 1.0 24.6 37.0#



#20

Methylene Chloride

Concen: 8.147 ppbv

RT: 4.37 min Scan# 445

Delta R.T. -0.00 min

Lab File: VL034102.D

Acq: 12 Aug 2019 12:59

Tgt Ion: 84 Resp: 417509

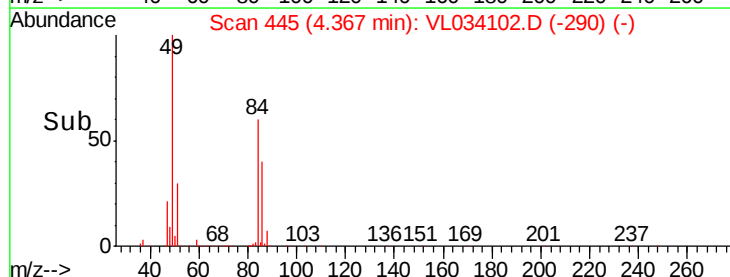
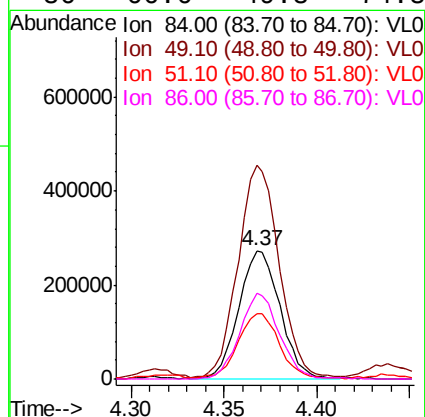
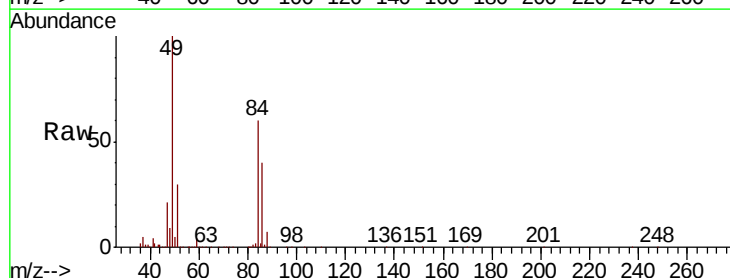
Ion Ratio Lower Upper

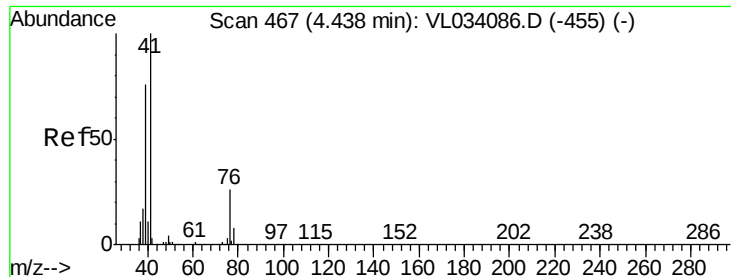
84 100

49 165.5 129.7 194.5

51 50.0 35.8 53.8

86 66.6 49.8 74.8

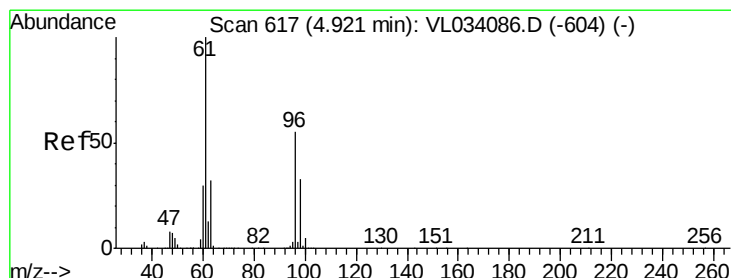
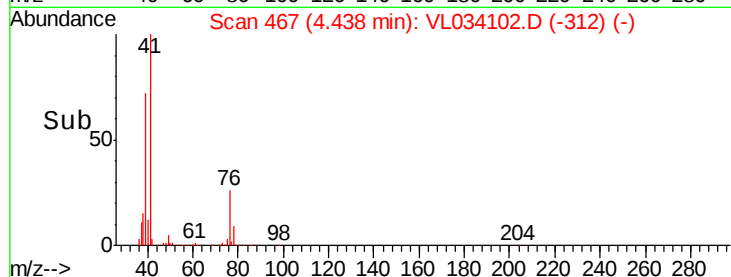
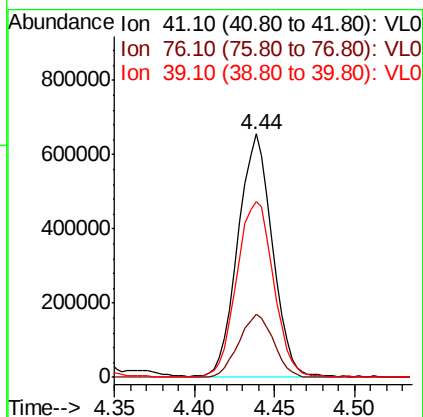
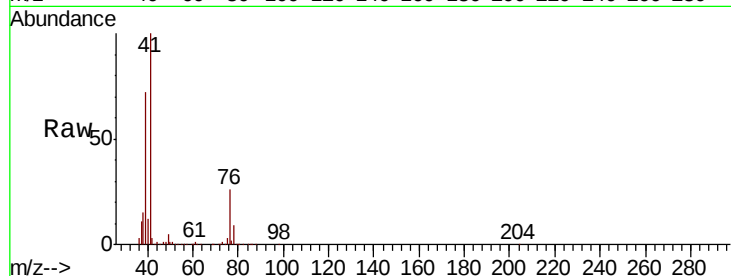




#21
 Allyl Chloride
 Concen: 8.057 ppbv
 RT: 4.44 min Scan# 467
 Delta R.T. -0.00 min
 Lab File: VL034102.D
 Acq: 12 Aug 2019 12:59

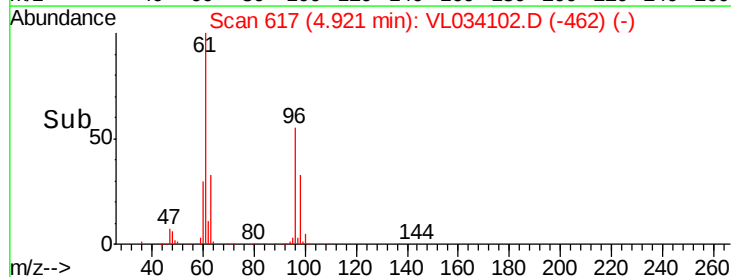
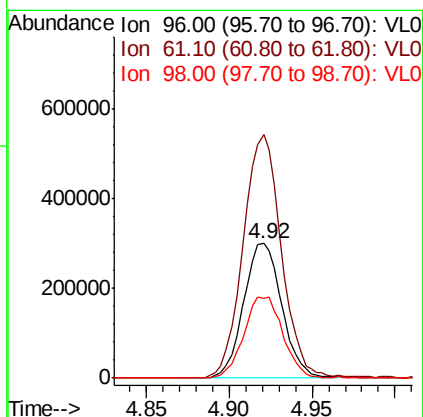
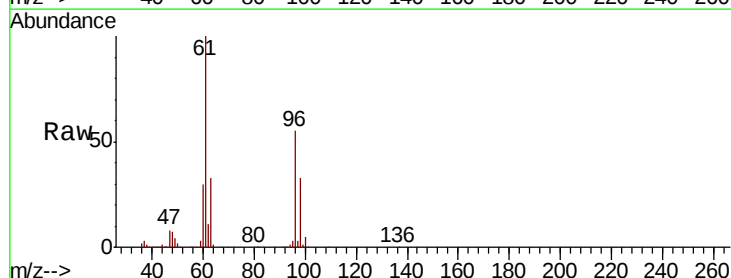
Instrument :
 MSVOA_L
 ClientSampleId :
 VL0812ABS01

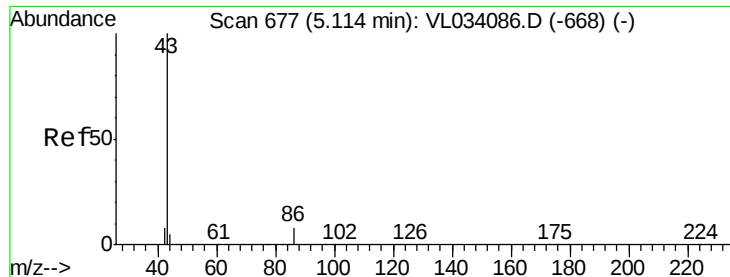
Tgt Ion: 41 Resp: 953021
 Ion Ratio Lower Upper
 41 100
 76 26.5 20.8 31.2
 39 78.5 61.3 91.9



#22
 trans-1,2-Dichloroethene
 Concen: 8.515 ppbv
 RT: 4.92 min Scan# 617
 Delta R.T. -0.00 min
 Lab File: VL034102.D
 Acq: 12 Aug 2019 12:59

Tgt Ion: 96 Resp: 481859
 Ion Ratio Lower Upper
 96 100
 61 180.7 144.2 216.2
 98 59.6 48.0 72.0





#23

Vinyl Acetate

Concen: 7.958 ppbv

RT: 5.11 min Scan# 677

Delta R.T. -0.00 min

Lab File: VL034102.D

Acq: 12 Aug 2019 12:59

Instrument :

MSVOA_L

ClientSampleId :

VL0812ABS01

Tgt Ion: 43 Resp: 2254948

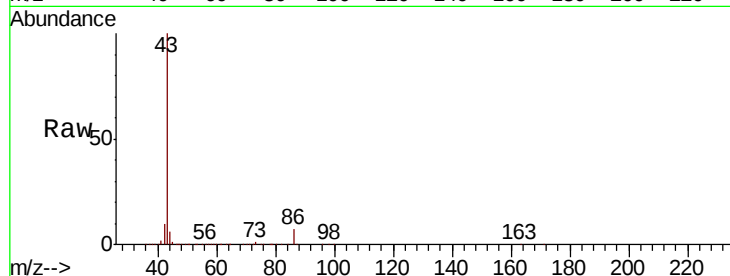
Ion Ratio Lower Upper

43 100

86 7.2 5.4 8.0

42 9.9 7.9 11.9

44 5.5 4.0 6.0

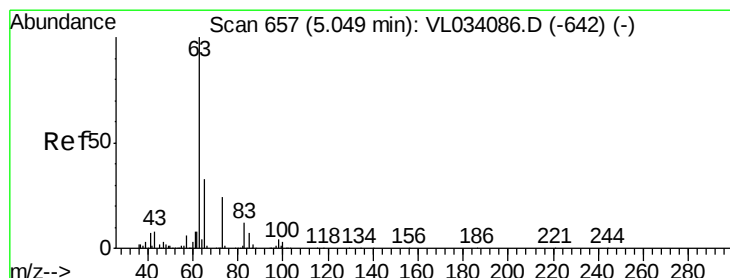
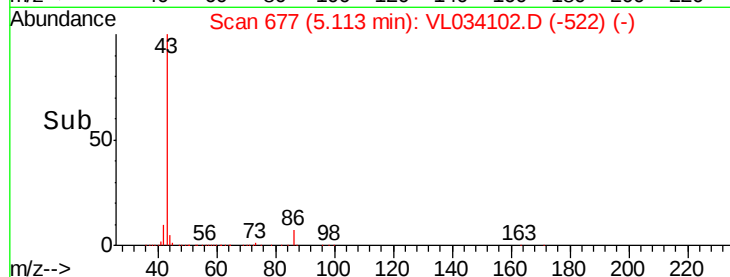
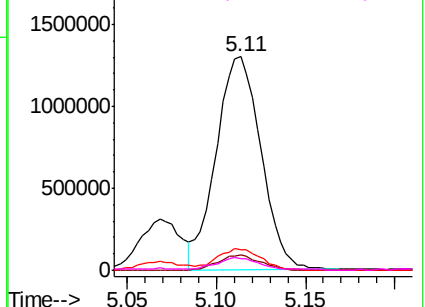


Abundance Ion 43.10 (42.80 to 43.80): VL0

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: 8.569 ppbv

RT: 5.05 min Scan# 657

Delta R.T. -0.00 min

Lab File: VL034102.D

Acq: 12 Aug 2019 12:59

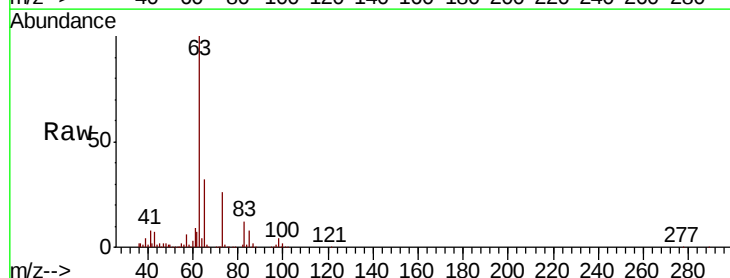
Tgt Ion: 63 Resp: 1444708

Ion Ratio Lower Upper

63 100

98 4.1 2.0 6.0

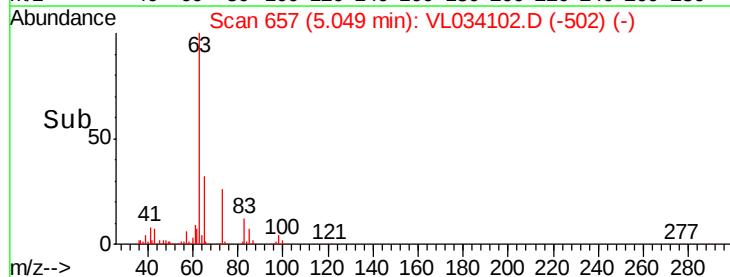
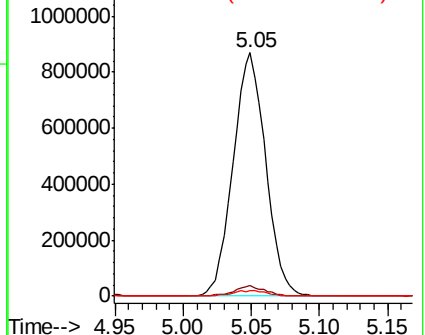
100 2.1 1.3 3.8

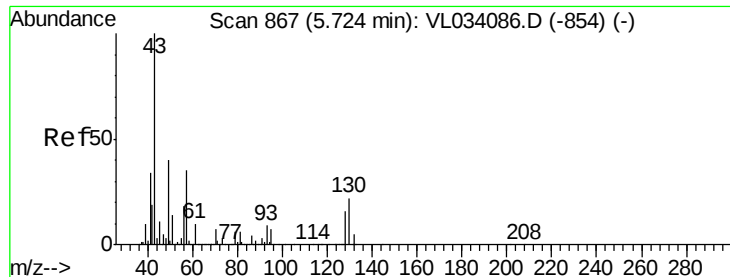


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

Ion 100.00 (99.70 to 100.70): VL0





#25

Ethyl Acetate

Concen: 7.939 ppbv

RT: 5.72 min Scan# 866

Delta R.T. -0.00 min

Lab File: VL034102.D

Acq: 12 Aug 2019 12:59

Instrument :

MSVOA_L

ClientSampleId :

VL0812ABS01

Tgt Ion: 43 Resp: 2668502

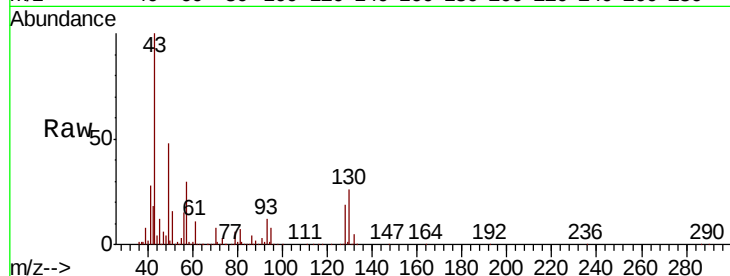
Ion Ratio Lower Upper

43 100

45 10.4 8.4 12.6

61 9.2 7.3 10.9

70 7.3 5.8 8.6

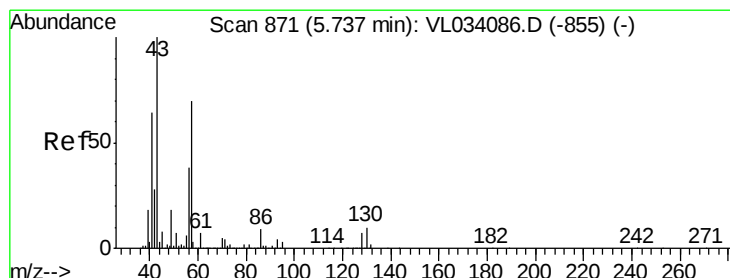
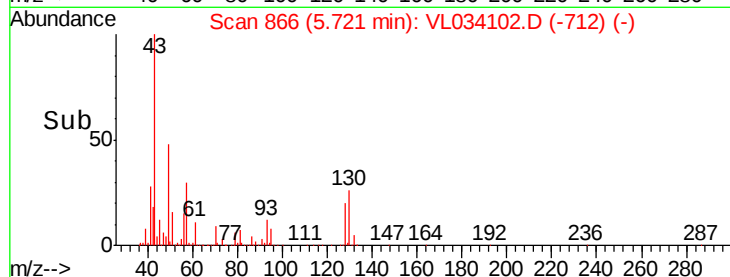
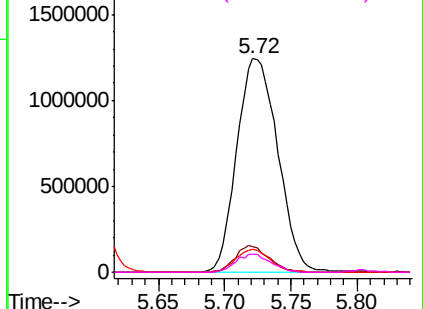


Abundance Ion 43.10 (42.80 to 43.80): VL0

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: 8.181 ppbv

RT: 5.73 min Scan# 870

Delta R.T. -0.00 min

Lab File: VL034102.D

Acq: 12 Aug 2019 12:59

Tgt Ion: 57 Resp: 1165615

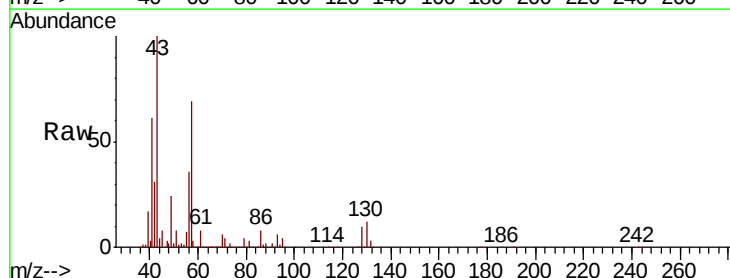
Ion Ratio Lower Upper

57 100

41 92.1 75.7 113.5

43 229.8 189.8 284.8

56 52.8 42.7 64.1

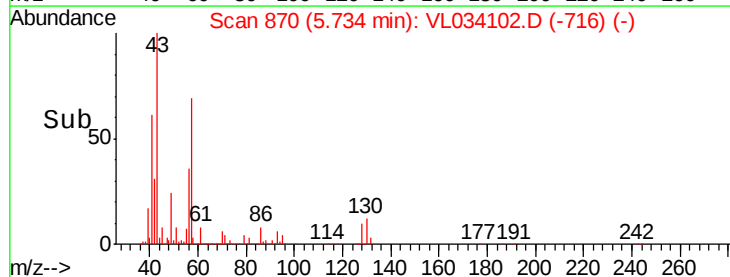
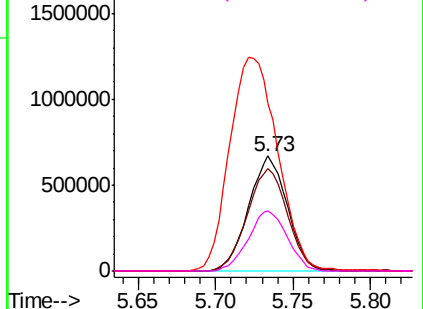


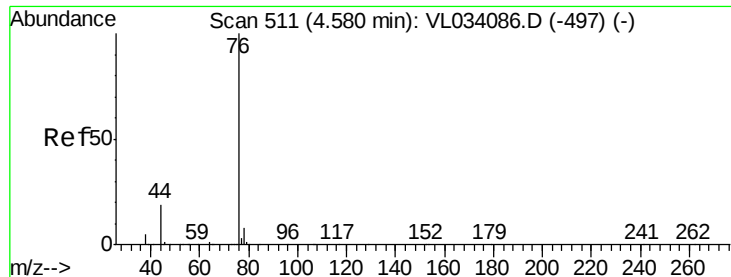
Abundance Ion 57.10 (56.80 to 57.80): VL0

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: 8.554 ppbv

RT: 4.58 min Scan# 511

Delta R.T. -0.00 min

Lab File: VL034102.D

Acq: 12 Aug 2019 12:59

Instrument :

MSVOA_L

ClientSampleId :

VL0812ABS01

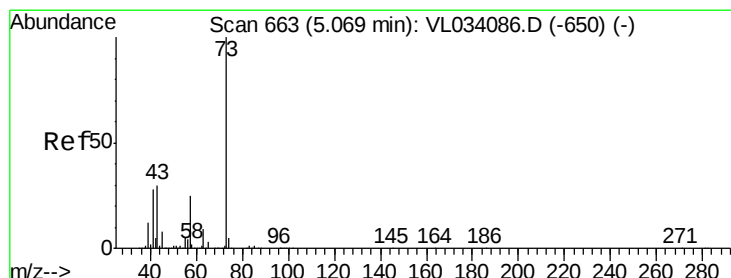
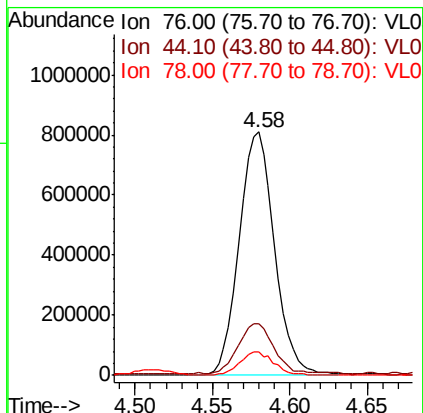
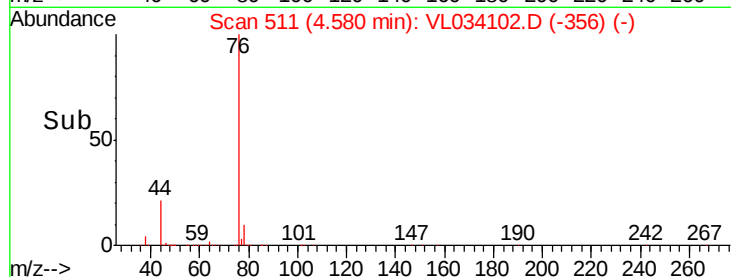
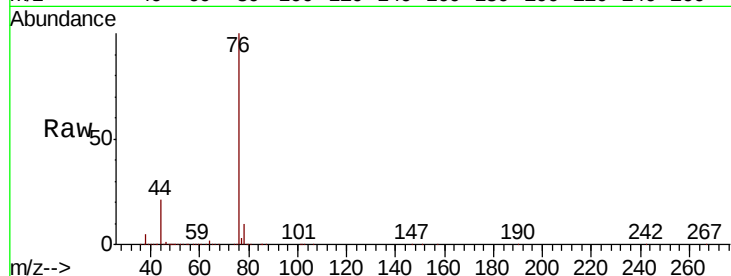
Tgt Ion: 76 Resp: 1284853

Ion Ratio Lower Upper

76 100

44 21.5 17.8 26.6

78 9.3 7.7 11.5



#28

Methyl tert-Butyl Ether

Concen: 8.177 ppbv

RT: 5.07 min Scan# 663

Delta R.T. -0.00 min

Lab File: VL034102.D

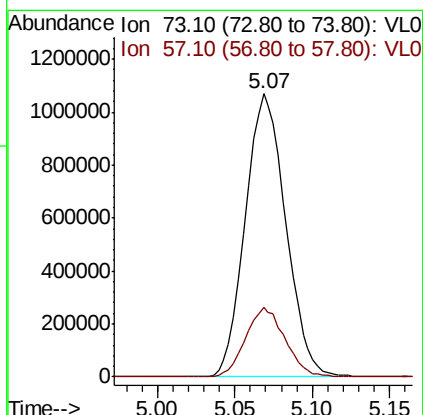
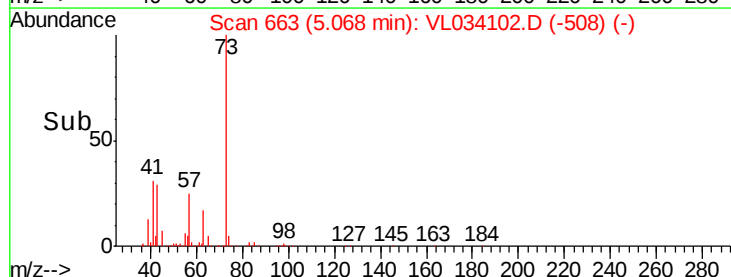
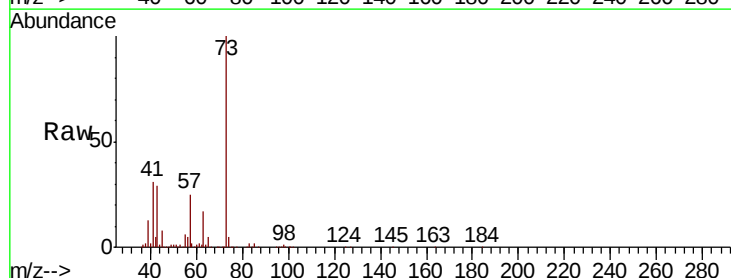
Acq: 12 Aug 2019 12:59

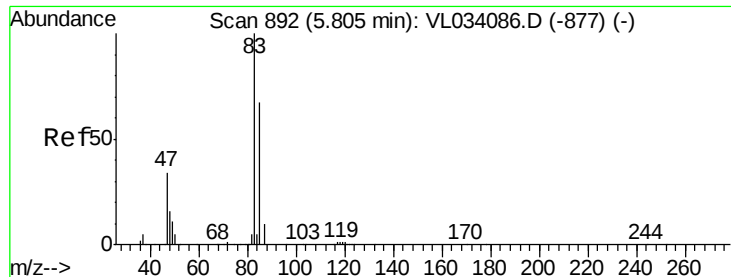
Tgt Ion: 73 Resp: 1948232

Ion Ratio Lower Upper

73 100

57 24.0 19.5 29.3

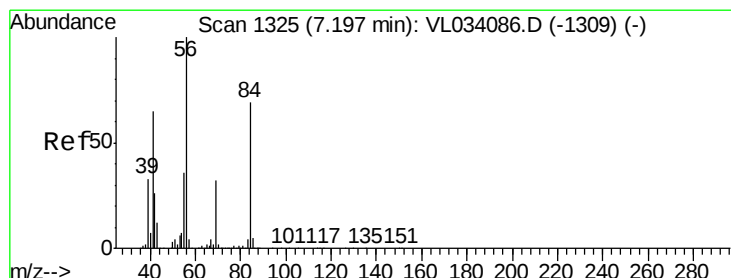
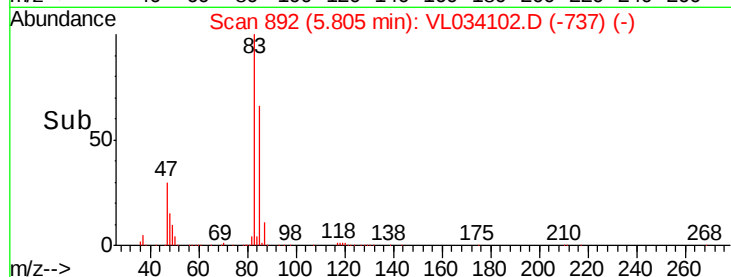
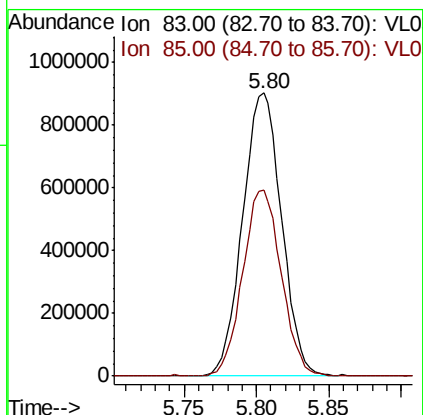
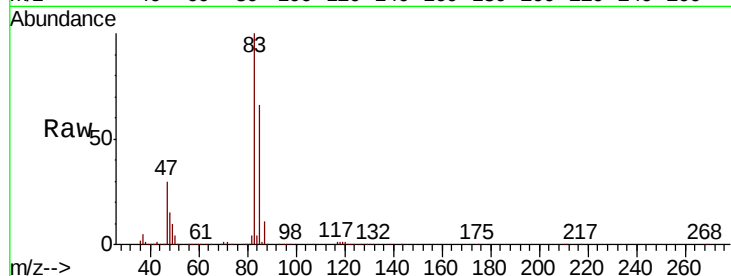




#29
Chloroform
Concen: 8.708 ppbv
RT: 5.80 min Scan# 892
Delta R.T. -0.00 min
Lab File: VL034102.D
Acq: 12 Aug 2019 12:59

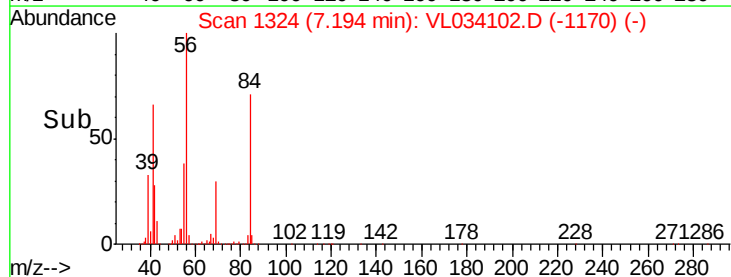
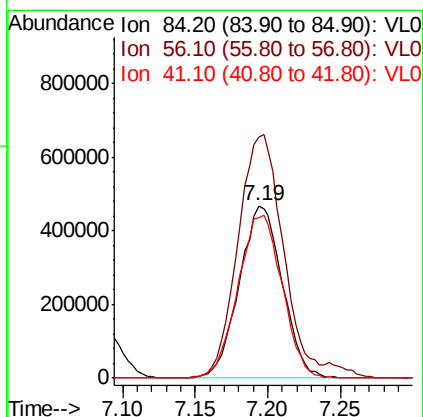
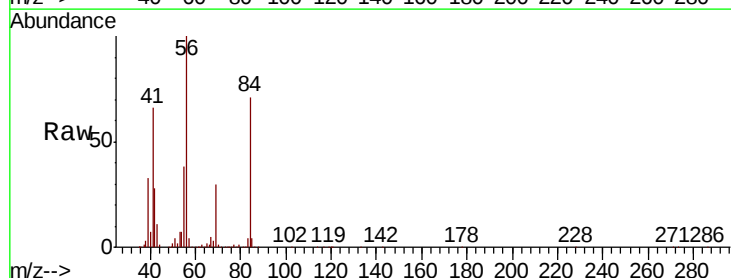
Instrument :
MSVOA_L
ClientSampleId :
VL0812ABS01

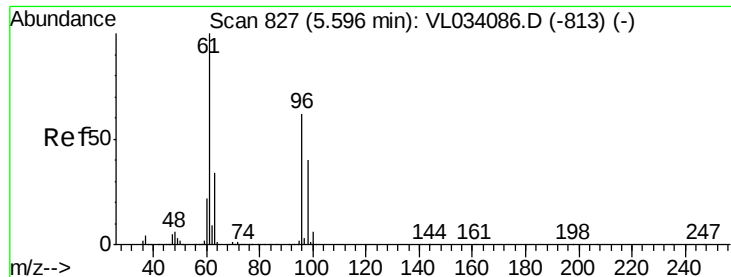
Tgt Ion: 83 Resp: 1686497
Ion Ratio Lower Upper
83 100
85 65.7 53.2 79.8



#30
Cyclohexane
Concen: 8.597 ppbv
RT: 7.19 min Scan# 1324
Delta R.T. -0.00 min
Lab File: VL034102.D
Acq: 12 Aug 2019 12:59

Tgt Ion: 84 Resp: 967534
Ion Ratio Lower Upper
84 100
56 152.2 122.6 184.0
41 97.0 80.1 120.1



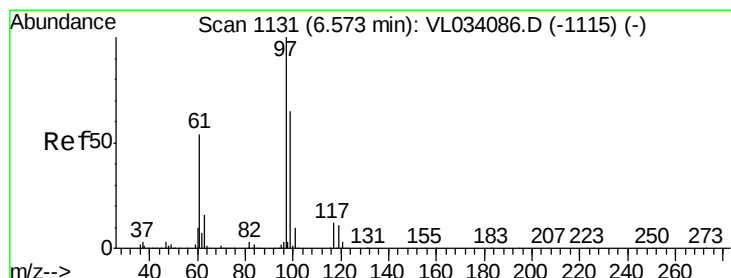
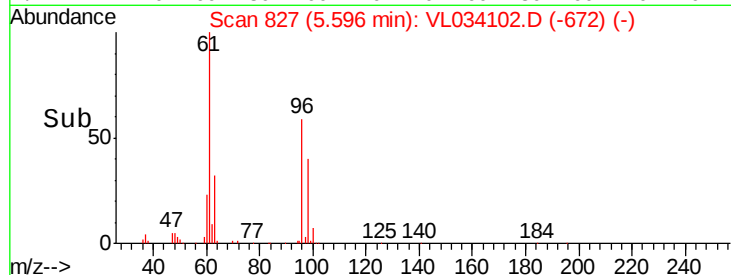
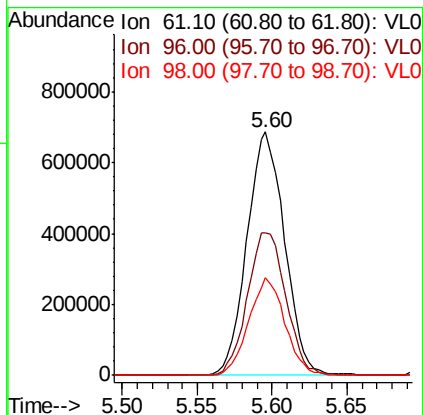
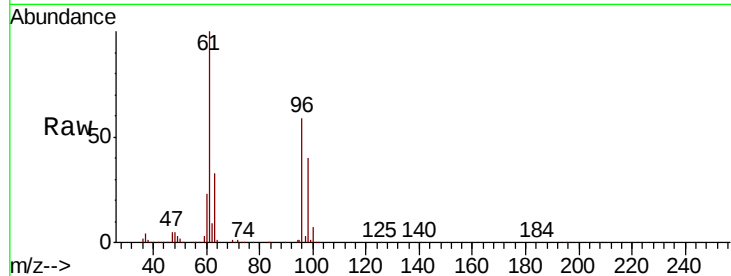


#31

cis-1,2-Dichloroethene
 Concen: 8.541 ppbv
 RT: 5.60 min Scan# 827
 Delta R.T. -0.00 min
 Lab File: VL034102.D
 Acq: 12 Aug 2019 12:59

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0812ABS01

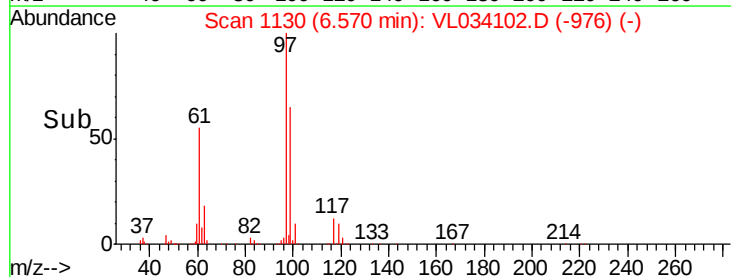
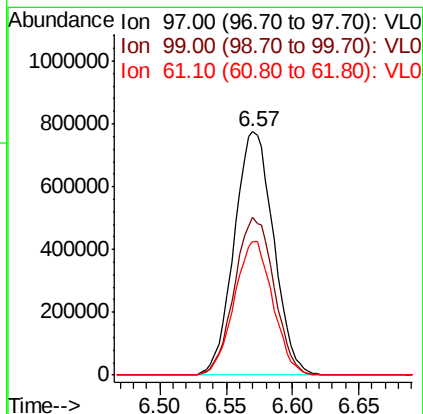
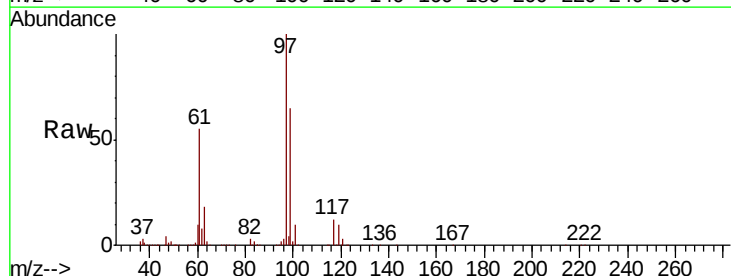
Tgt Ion: 61 Resp: 1201946
 Ion Ratio Lower Upper
 61 100
 96 58.8 49.3 73.9
 98 39.9 32.4 48.6

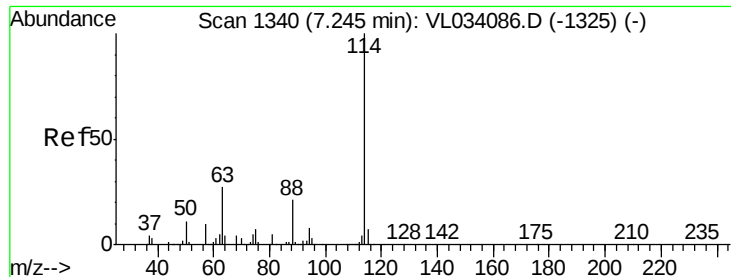


#32

1,1,1-Trichloroethane
 Concen: 8.335 ppbv
 RT: 6.57 min Scan# 1130
 Delta R.T. -0.00 min
 Lab File: VL034102.D
 Acq: 12 Aug 2019 12:59

Tgt Ion: 97 Resp: 1597653
 Ion Ratio Lower Upper
 97 100
 99 65.3 52.2 78.4
 61 54.1 42.0 63.0

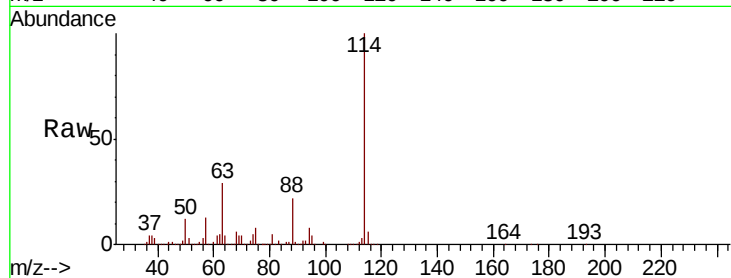




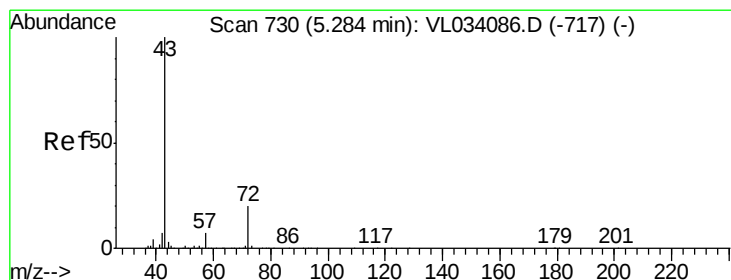
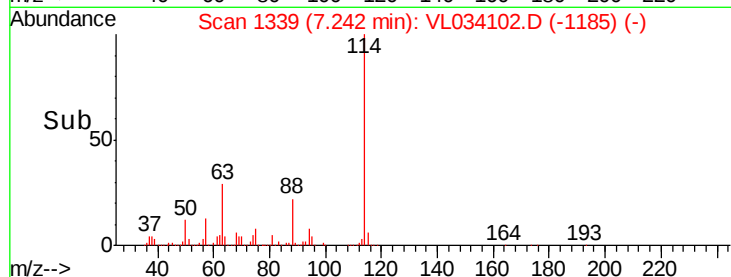
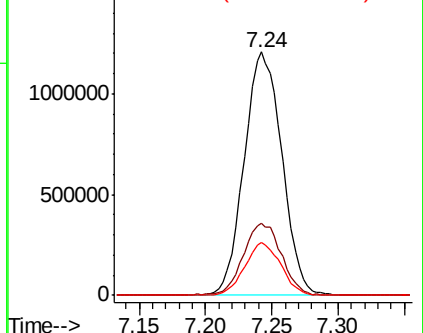
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.24 min Scan# 1339
 Delta R.T. -0.00 min
 Lab File: VL034102.D
 Acq: 12 Aug 2019 12:59

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0812ABS01

Tgt Ion: 114 Resp: 2387197
 Ion Ratio Lower Upper
 114 100
 63 30.3 22.5 33.7
 88 20.7 15.7 23.5

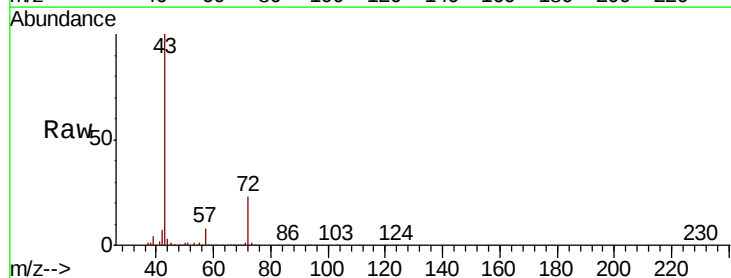


Abundance Ion 114.10 (113.80 to 114.80): VL0
 Ion 63.10 (62.80 to 63.80): VL0
 Ion 88.10 (87.80 to 88.80): VL0

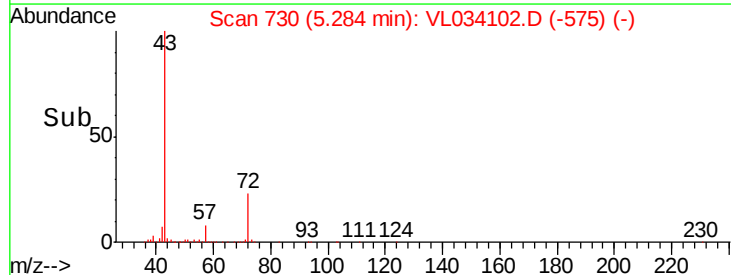
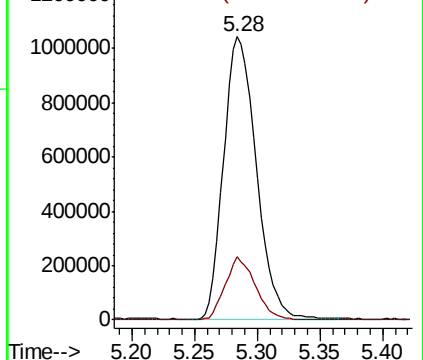


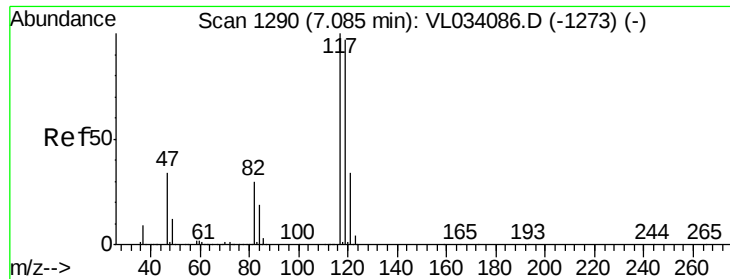
#34
 2-Butanone
 Concen: 8.514 ppbv
 RT: 5.28 min Scan# 730
 Delta R.T. -0.00 min
 Lab File: VL034102.D
 Acq: 12 Aug 2019 12:59

Tgt Ion: 43 Resp: 1889532
 Ion Ratio Lower Upper
 43 100
 72 20.9 16.0 24.0



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





#35

Carbon Tetrachloride

Concen: 8.433 ppbv

RT: 7.08 min Scan# 1289

Delta R.T. -0.00 min

Lab File: VL034102.D

Acq: 12 Aug 2019 12:59

Instrument :

MSVOA_L

ClientSampleId :

VL0812ABS01

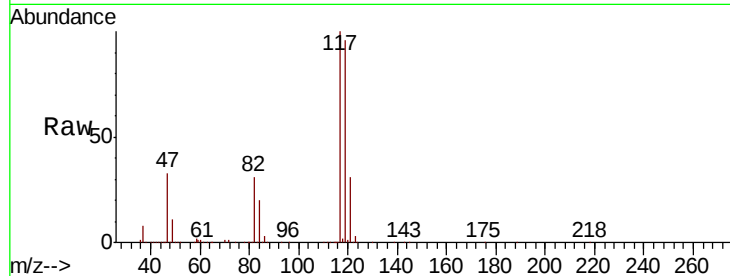
Tgt Ion:117 Resp: 1545143

Ion Ratio Lower Upper

117 100

119 96.3 77.8 116.6

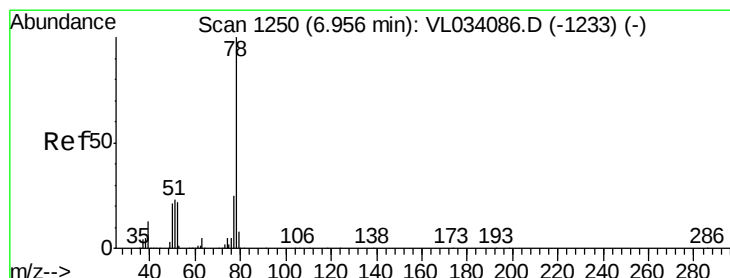
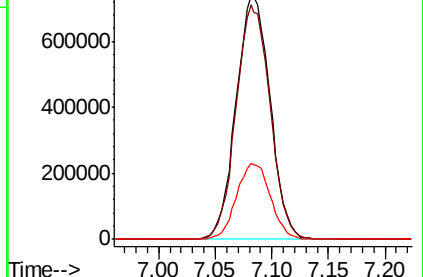
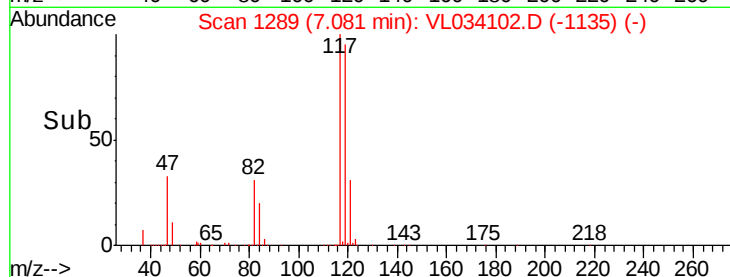
121 31.0 27.4 41.2



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: 8.570 ppbv

RT: 6.96 min Scan# 1250

Delta R.T. -0.00 min

Lab File: VL034102.D

Acq: 12 Aug 2019 12:59

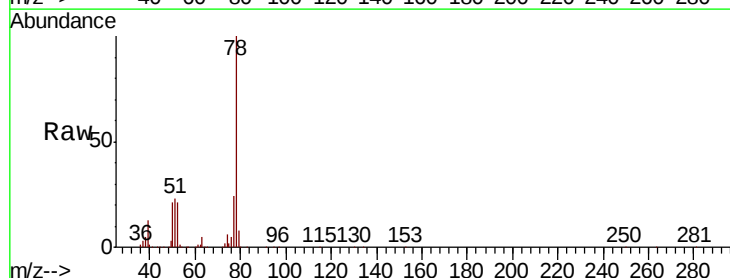
Tgt Ion: 78 Resp: 2325212

Ion Ratio Lower Upper

78 100

77 23.9 19.9 29.9

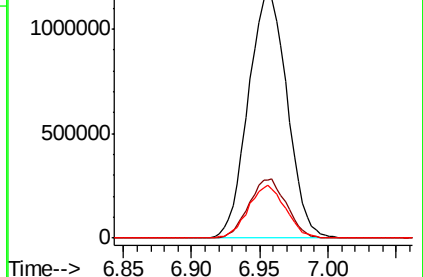
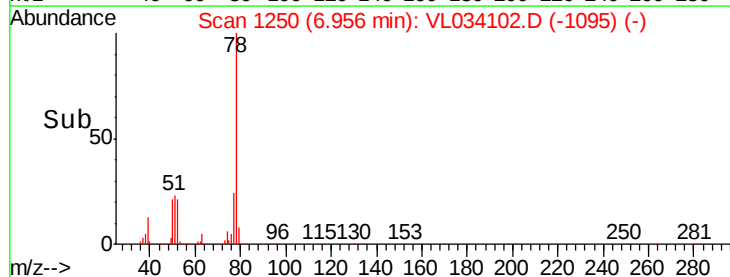
50 21.5 16.7 25.1

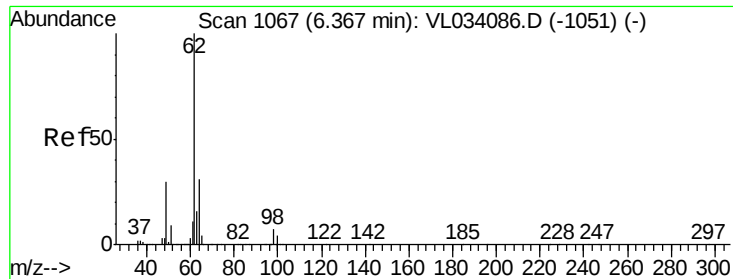


Abundance Ion 78.10 (77.80 to 78.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

Ion 50.10 (49.80 to 50.80): VL0

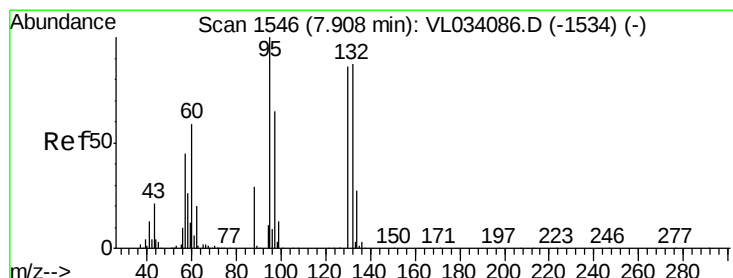
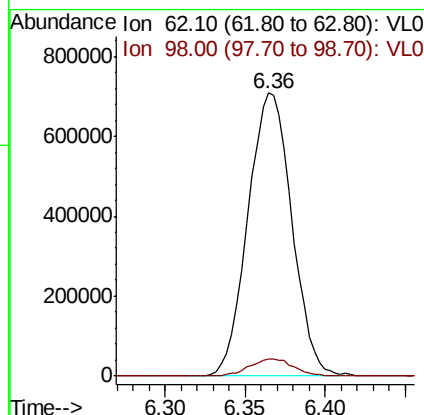
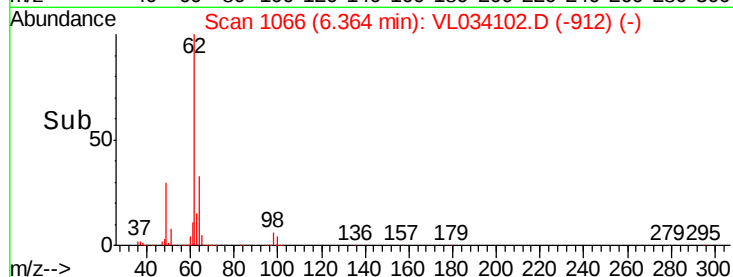
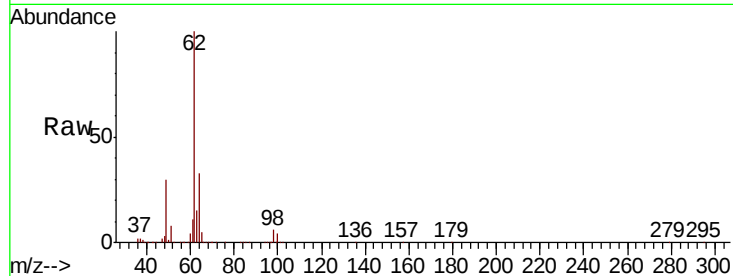




#37
 1,2-Dichloroethane
 Concen: 9.116 ppbv
 RT: 6.36 min Scan# 1066
 Delta R.T. -0.00 min
 Lab File: VL034102.D
 Acq: 12 Aug 2019 12:59

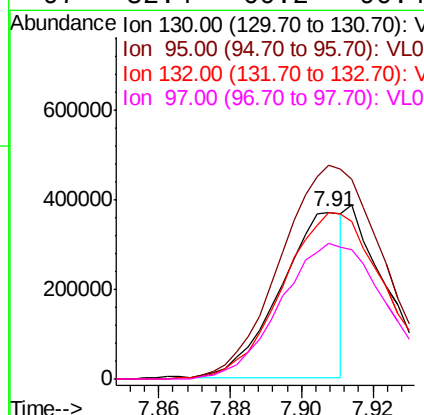
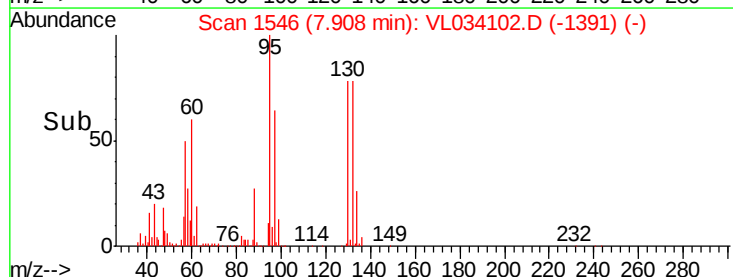
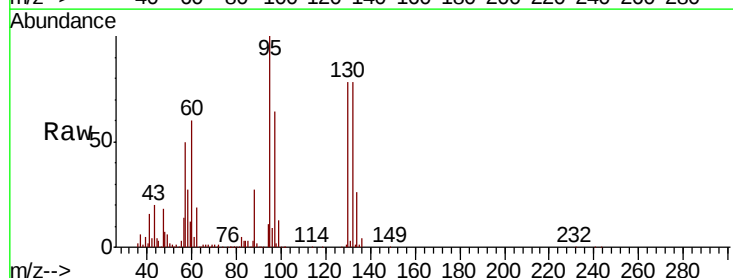
Instrument :
 MSVOA_L
 ClientSampleId :
 VL0812ABS01

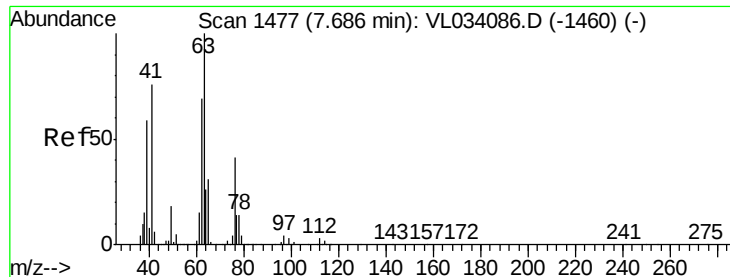
Tgt Ion: 62 Resp: 1330732
 Ion Ratio Lower Upper
 62 100
 98 6.2 4.9 7.3



#38
 Trichloroethene
 Concen: 4.228 ppbv
 RT: 7.91 min Scan# 1546
 Delta R.T. -0.00 min
 Lab File: VL034102.D
 Acq: 12 Aug 2019 12:59

Tgt Ion: 130 Resp: 444251
 Ion Ratio Lower Upper
 130 100
 95 128.9 92.1 138.1
 132 100.3 79.7 119.5
 97 82.4 60.2 90.4





#39

1,2-Dichloropropane

Concen: 8.913 ppbv

RT: 7.69 min Scan# 1477

Delta R.T. -0.00 min

Lab File: VL034102.D

Acq: 12 Aug 2019 12:59

Instrument :

MSVOA_L

ClientSampleId :

VL0812ABS01

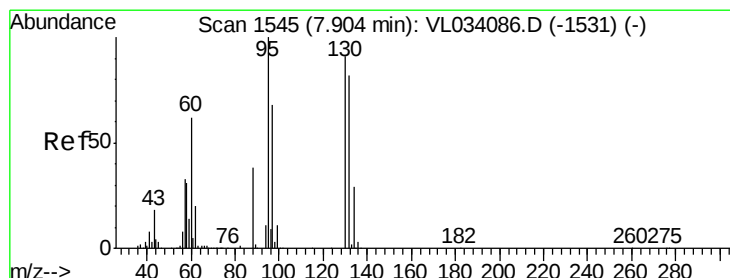
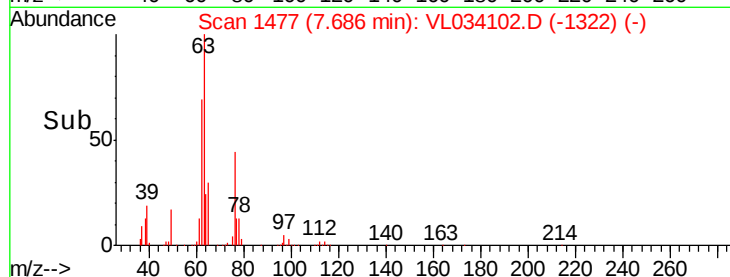
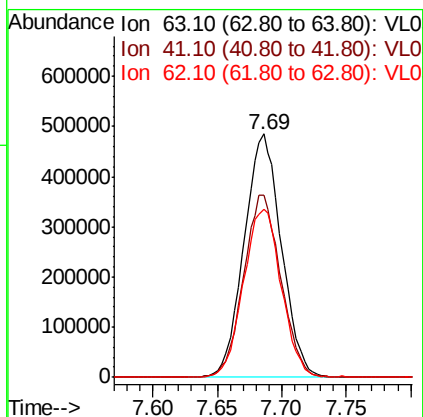
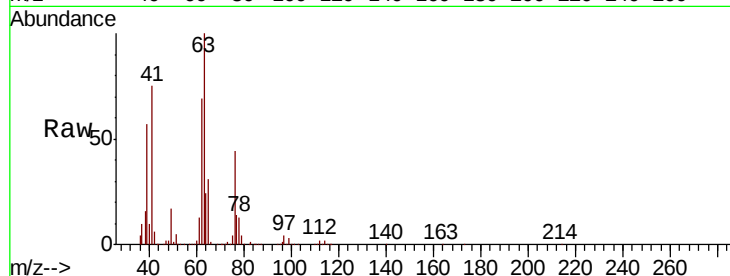
Tgt Ion: 63 Resp: 975812

Ion Ratio Lower Upper

63 100

41 74.6 60.6 91.0

62 69.0 55.0 82.6



#40

1,4-Dioxane

Concen: 8.537 ppbv

RT: 7.90 min Scan# 1544

Delta R.T. -0.00 min

Lab File: VL034102.D

Acq: 12 Aug 2019 12:59

Tgt Ion: 88 Resp: 352659

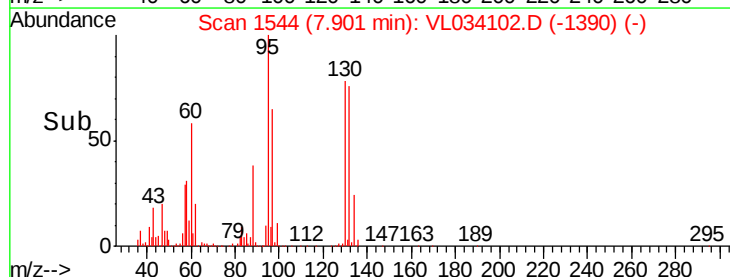
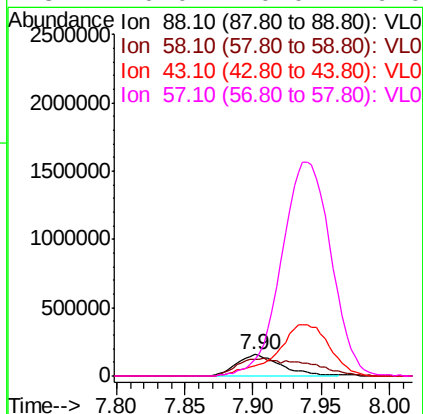
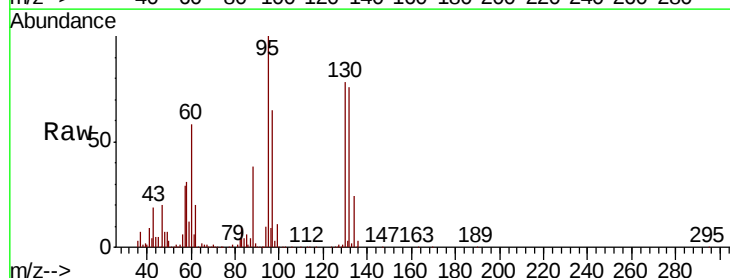
Ion Ratio Lower Upper

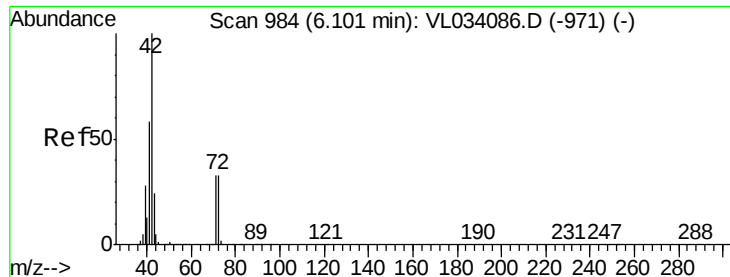
88 100

58 136.8 113.0 169.4

43 0.0 0.0 0.0

57 0.0 0.0 0.0





#41

Tetrahydrofuran

Concen: 8.655 ppbv

RT: 6.10 min Scan# 983

Delta R.T. -0.00 min

Lab File: VL034102.D

Acq: 12 Aug 2019 12:59

Instrument :

MSVOA_L

ClientSampleId :

VL0812ABS01

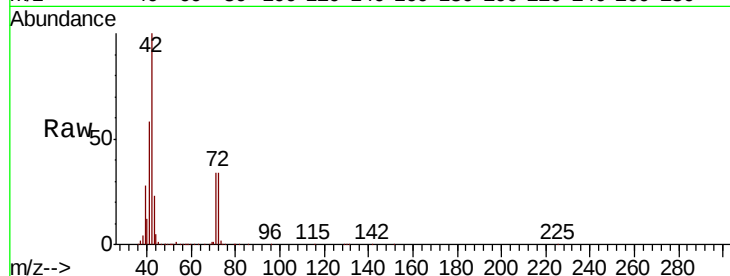
Tgt Ion: 42 Resp: 1181658

Ion Ratio Lower Upper

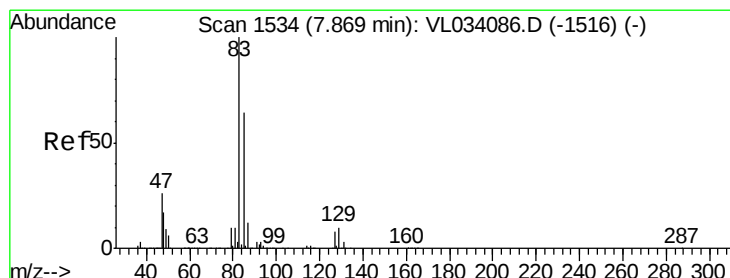
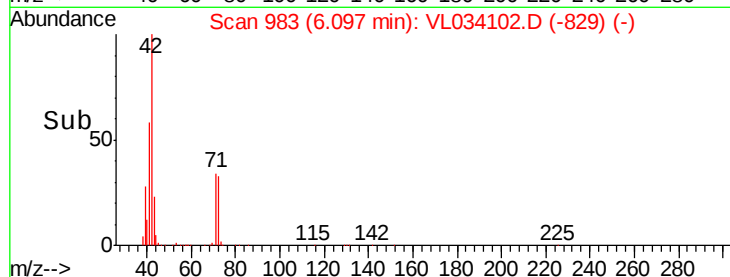
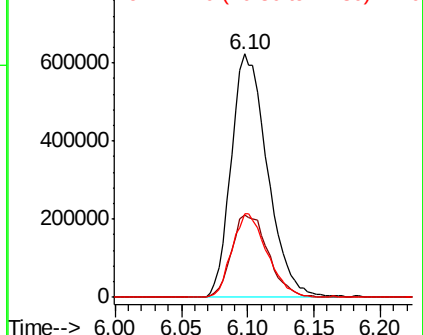
42 100

72 34.4 26.9 40.3

71 33.6 26.5 39.7



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: 9.095 ppbv

RT: 7.87 min Scan# 1534

Delta R.T. -0.00 min

Lab File: VL034102.D

Acq: 12 Aug 2019 12:59

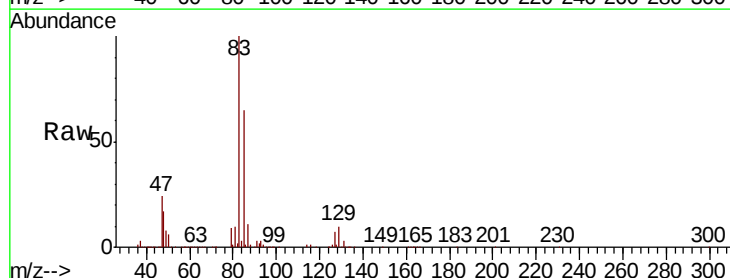
Tgt Ion: 83 Resp: 1861433

Ion Ratio Lower Upper

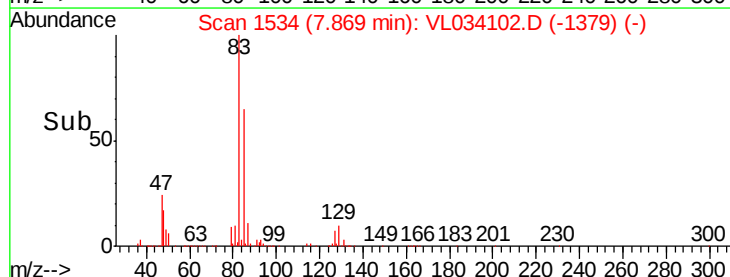
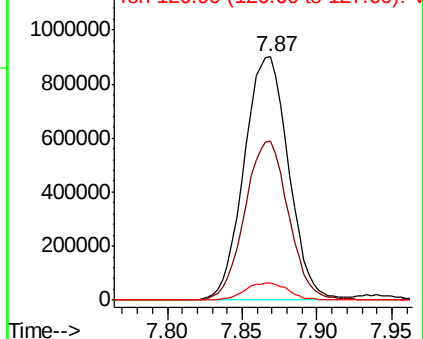
83 100

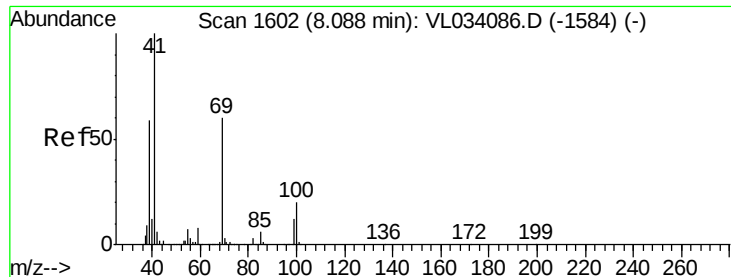
85 65.2 50.9 76.3

127 6.9 6.1 9.1



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

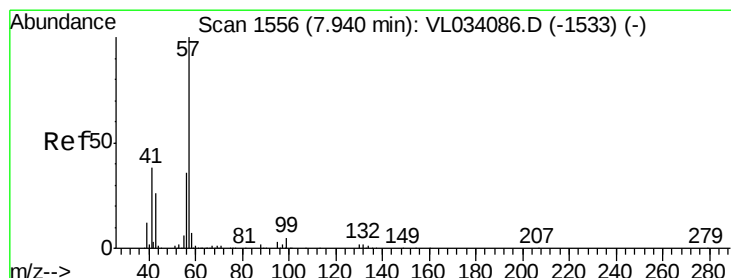
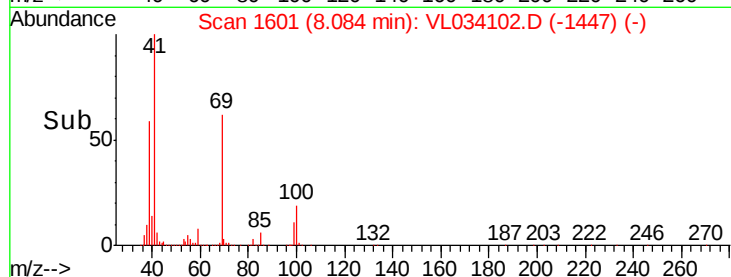
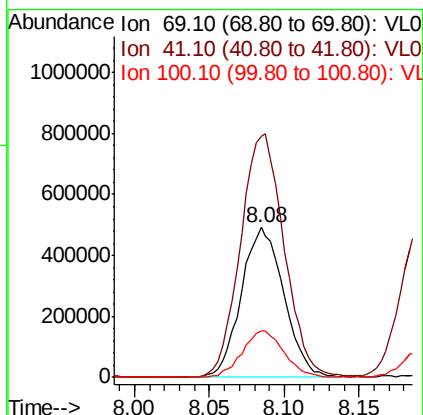
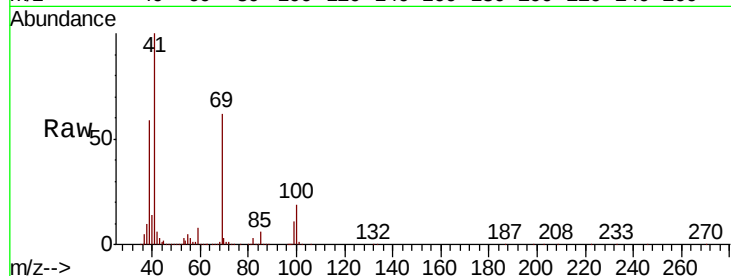




#43
Methyl Methacrylate
Concen: 8.759 ppbv
RT: 8.08 min Scan# 1601
Delta R.T. -0.00 min
Lab File: VL034102.D
Acq: 12 Aug 2019 12:59

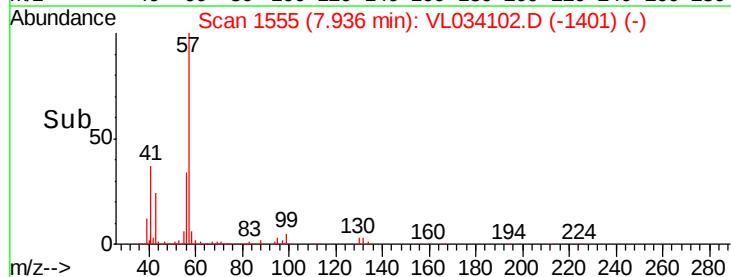
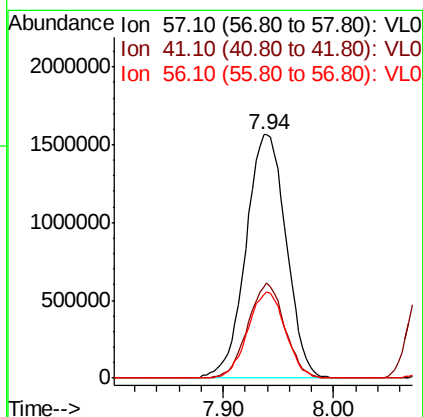
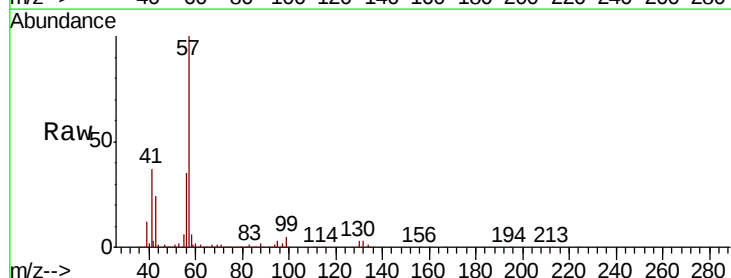
Instrument :
MSVOA_L
ClientSampleId :
VL0812ABS01

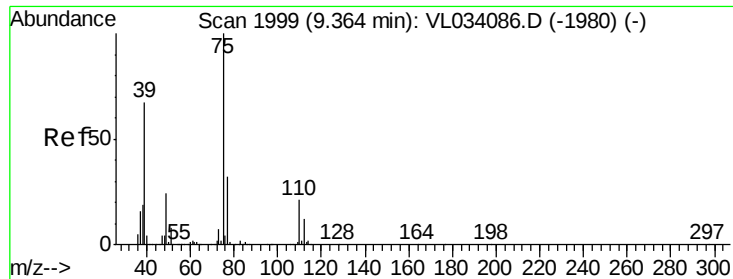
Tgt Ion: 69 Resp: 974837
Ion Ratio Lower Upper
69 100
41 165.7 132.9 199.3
100 30.4 25.8 38.8



#44
2,2,4-Trimethylpentane
Concen: 8.135 ppbv
RT: 7.94 min Scan# 1555
Delta R.T. -0.00 min
Lab File: VL034102.D
Acq: 12 Aug 2019 12:59

Tgt Ion: 57 Resp: 3951925
Ion Ratio Lower Upper
57 100
41 35.8 29.2 43.8
56 33.0 26.7 40.1

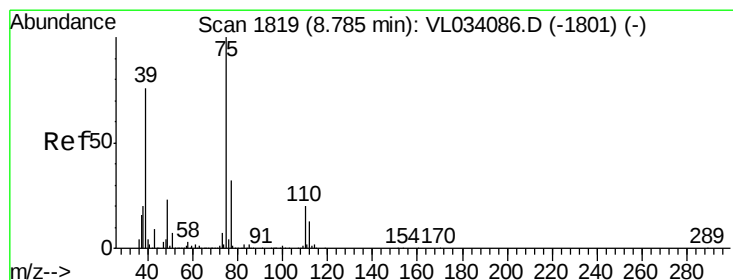
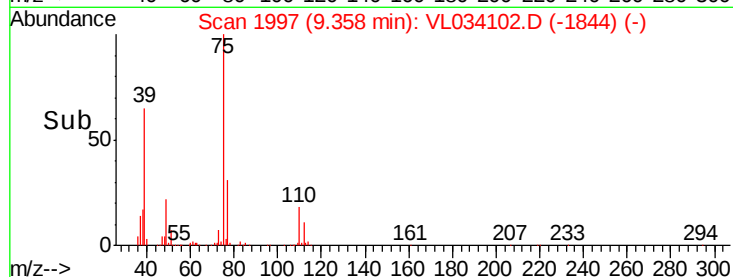
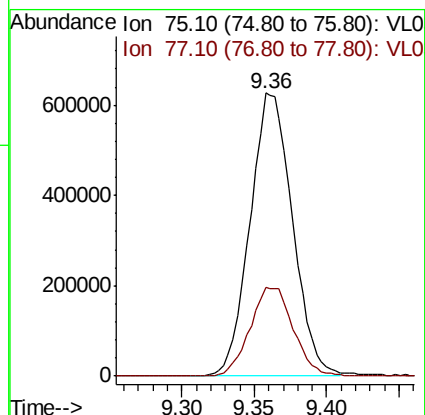
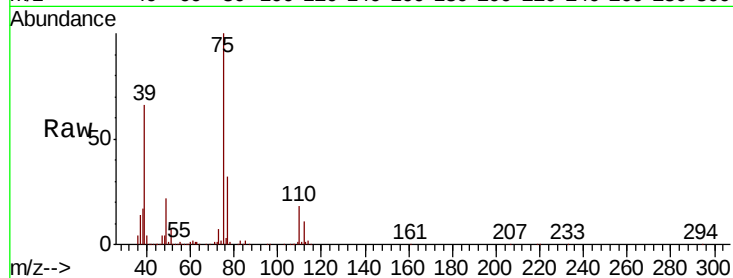




#45
t-1,3-Dichloropropene
Concen: 9.059 ppbv
RT: 9.36 min Scan# 1997
Delta R.T. -0.01 min
Lab File: VL034102.D
Acq: 12 Aug 2019 12:59

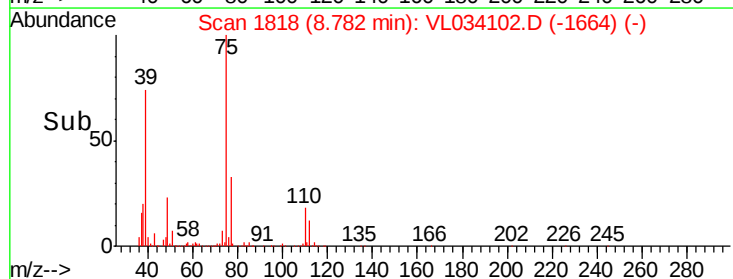
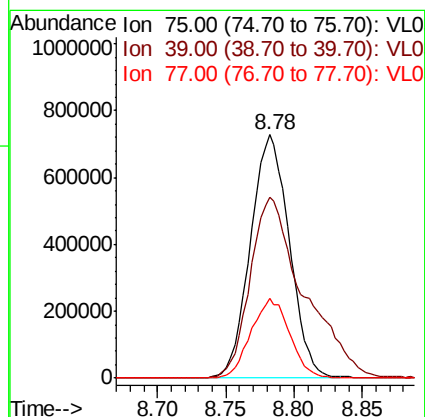
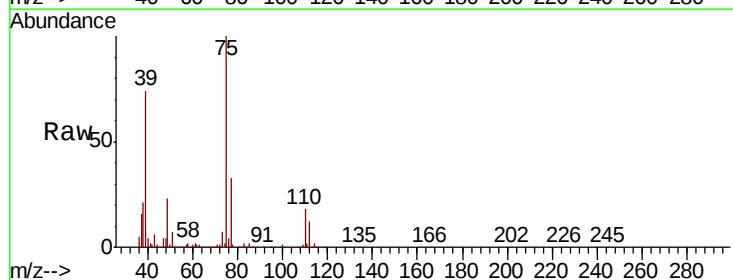
Instrument :
MSVOA_L
ClientSampleId :
VL0812ABS01

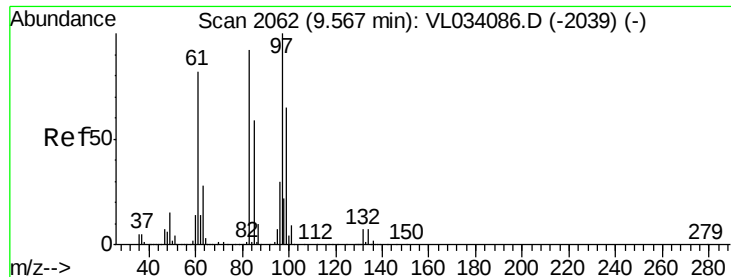
Tgt Ion: 75 Resp: 1278039
Ion Ratio Lower Upper
75 100
77 31.5 25.7 38.5



#46
cis-1,3-Dichloropropene
Concen: 8.860 ppbv
RT: 8.78 min Scan# 1818
Delta R.T. -0.00 min
Lab File: VL034102.D
Acq: 12 Aug 2019 12:59

Tgt Ion: 75 Resp: 1442615
Ion Ratio Lower Upper
75 100
39 74.2 61.0 91.4
77 33.0 25.6 38.4





#47

1,1,2-Trichloroethane

Concen: 8.781 ppbv

RT: 9.56 min Scan# 2061

Delta R.T. -0.00 min

Lab File: VL034102.D

Acq: 12 Aug 2019 12:59

Instrument :

MSVOA_L

ClientSampleId :

VL0812ABS01

Tgt Ion: 97 Resp: 918998

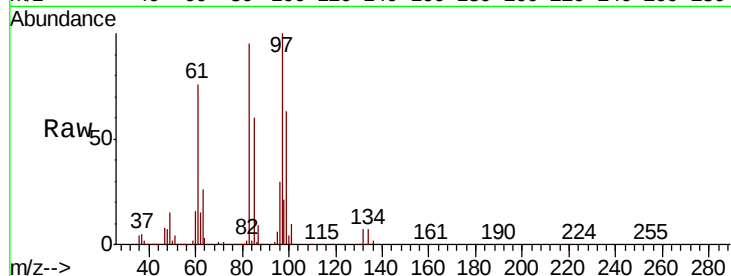
Ion Ratio Lower Upper

97 100

83 95.2 74.0 111.0

85 59.7 47.1 70.7

99 63.5 51.9 77.9

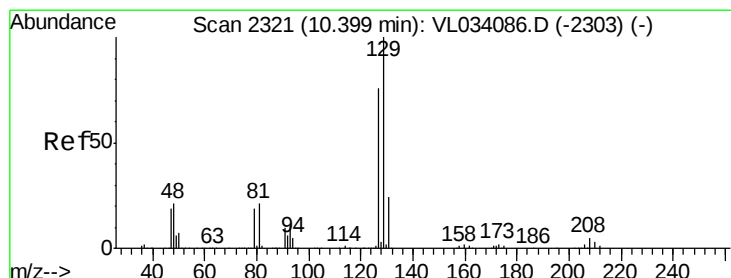
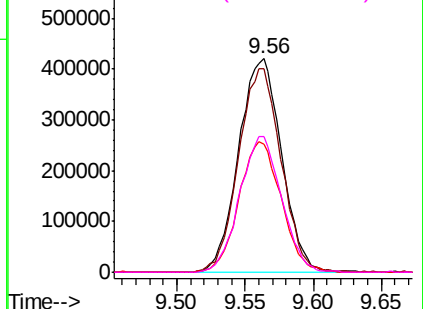
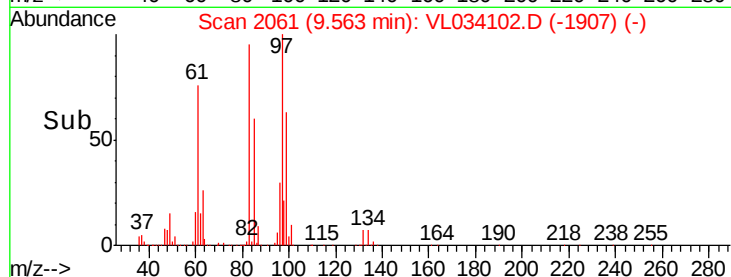


Abundance Ion 97.00 (96.70 to 97.70): VL0

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: 8.561 ppbv

RT: 10.40 min Scan# 2320

Delta R.T. -0.00 min

Lab File: VL034102.D

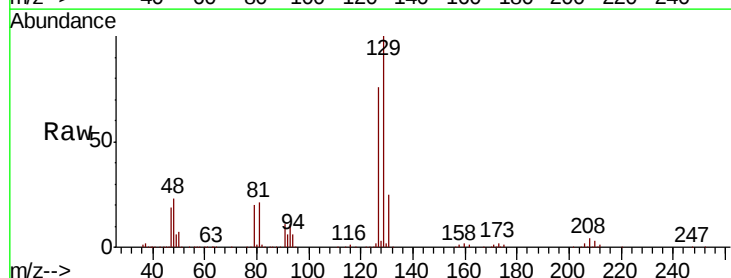
Acq: 12 Aug 2019 12:59

Tgt Ion: 129 Resp: 1436756

Ion Ratio Lower Upper

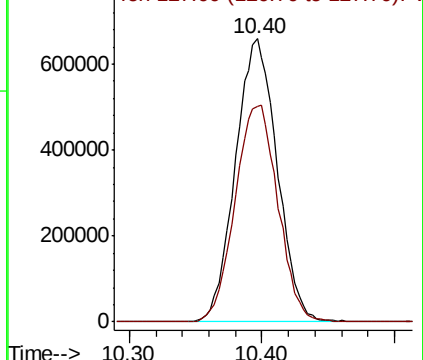
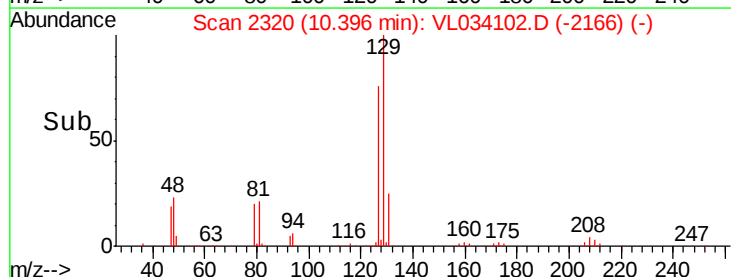
129 100

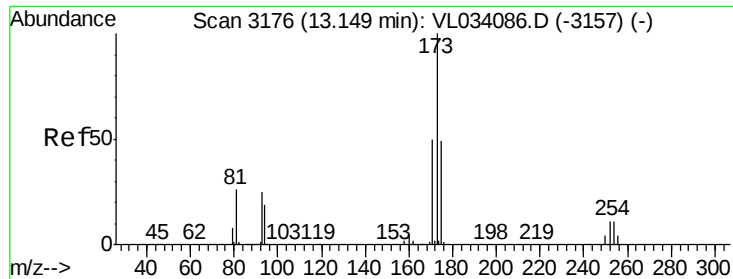
127 78.9 39.4 118.2



Abundance Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V





#49

Bromoform

Concen: 8.552 ppbv

RT: 13.14 min Scan# 3174

Delta R.T. -0.01 min

Lab File: VL034102.D

Acq: 12 Aug 2019 12:59

Instrument :

MSVOA_L

ClientSampleId :

VL0812ABS01

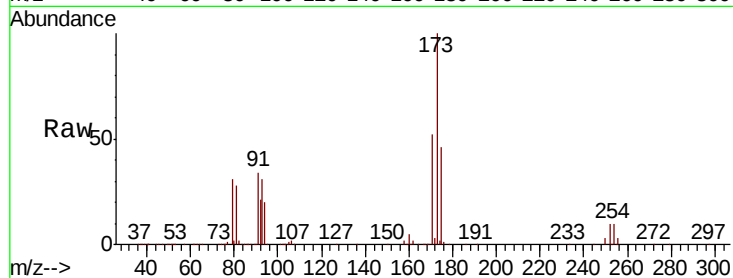
Tgt Ion:173 Resp: 1283259

Ion Ratio Lower Upper

173 100

175 49.1 39.8 59.8

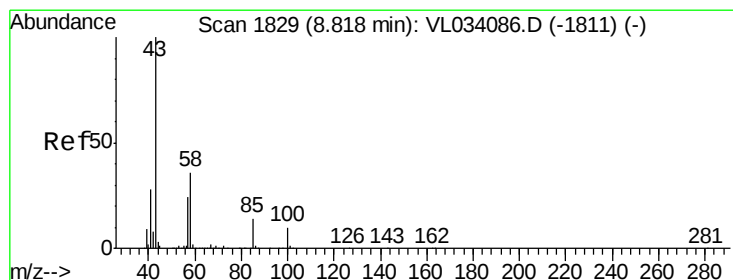
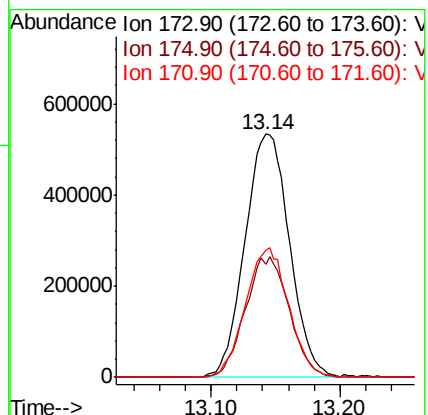
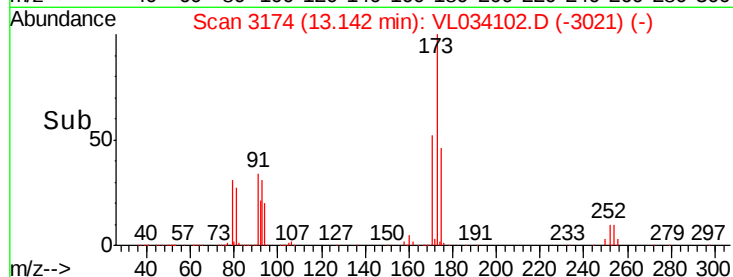
171 51.9 42.7 64.1



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: 8.276 ppbv

RT: 8.81 min Scan# 1828

Delta R.T. -0.00 min

Lab File: VL034102.D

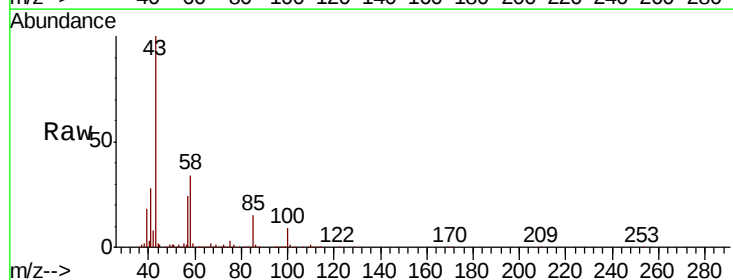
Acq: 12 Aug 2019 12:59

Tgt Ion: 43 Resp: 2795630

Ion Ratio Lower Upper

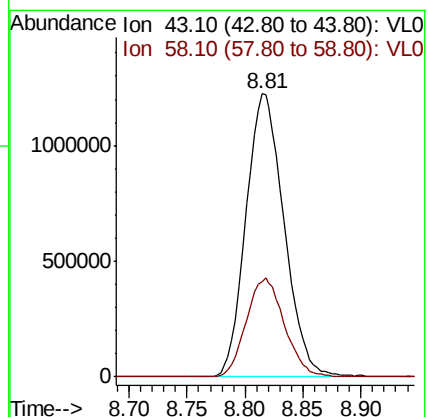
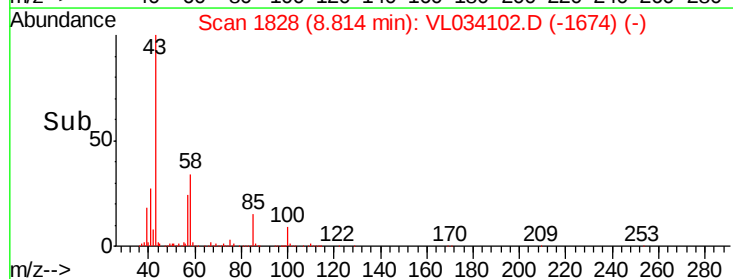
43 100

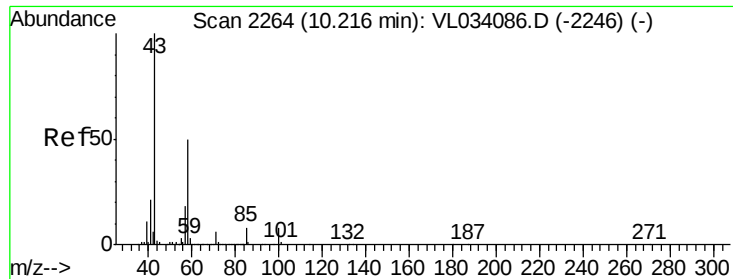
58 35.0 28.2 42.2



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

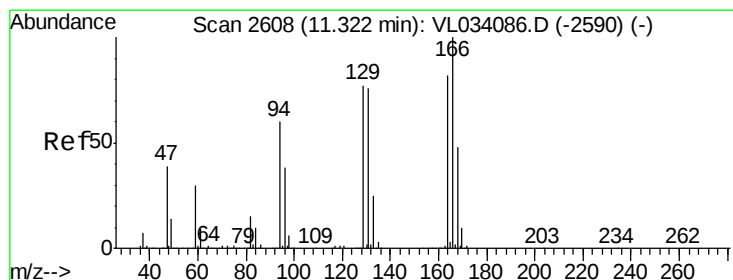
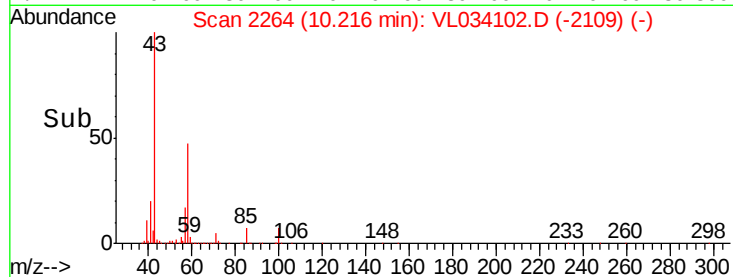
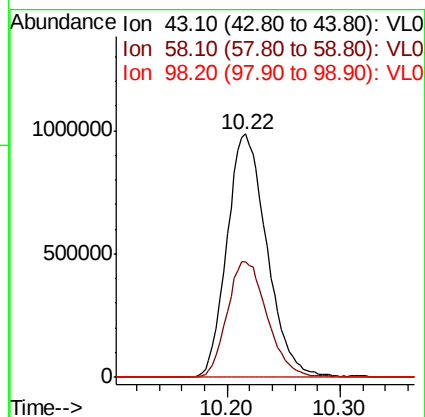
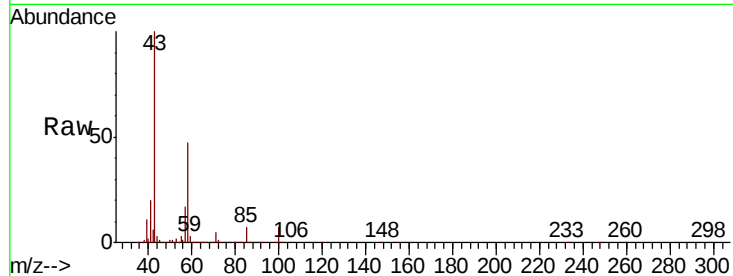




#51
 2-Hexanone
 Concen: 8.518 ppbv
 RT: 10.22 min Scan# 2264
 Delta R.T. -0.00 min
 Lab File: VL034102.D
 Acq: 12 Aug 2019 12:59

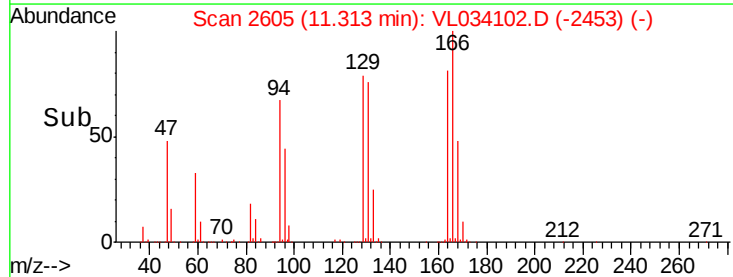
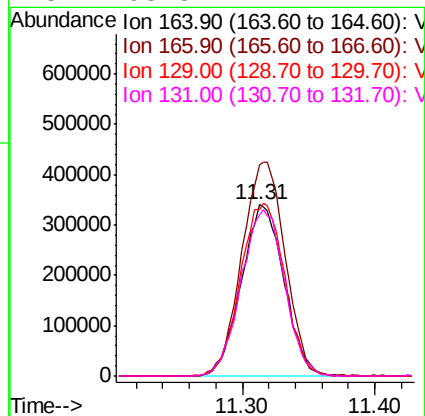
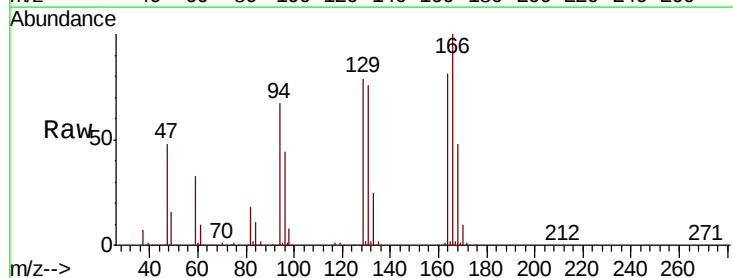
Instrument :
 MSVOA_L
 ClientSampleId :
 VL0812ABS01

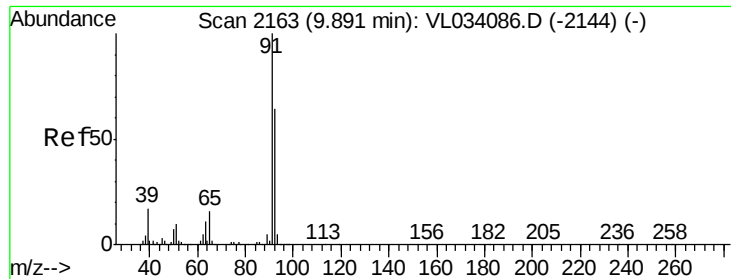
Tgt Ion: 43 Resp: 2417905
 Ion Ratio Lower Upper
 43 100
 58 47.7 38.5 57.7
 98 0.1 0.0 0.0#



#52
 Tetrachloroethene
 Concen: 7.256 ppbv
 RT: 11.31 min Scan# 2605
 Delta R.T. -0.01 min
 Lab File: VL034102.D
 Acq: 12 Aug 2019 12:59

Tgt Ion: 164 Resp: 760328
 Ion Ratio Lower Upper
 164 100
 166 123.6 96.8 145.2
 129 97.3 74.9 112.3
 131 93.8 74.2 111.2





#53

Toluene

Concen: 8.244 ppbv

RT: 9.89 min Scan# 2162

Delta R.T. -0.00 min

Lab File: VL034102.D

Acq: 12 Aug 2019 12:59

Instrument :

MSVOA_L

ClientSampleId :

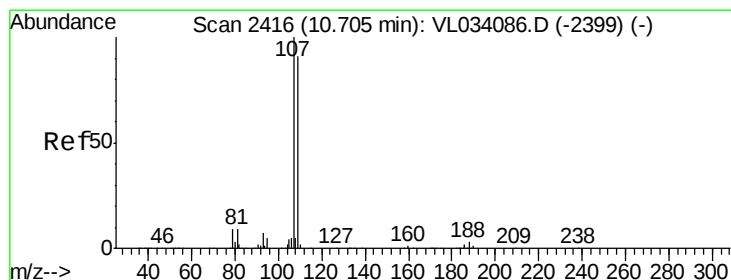
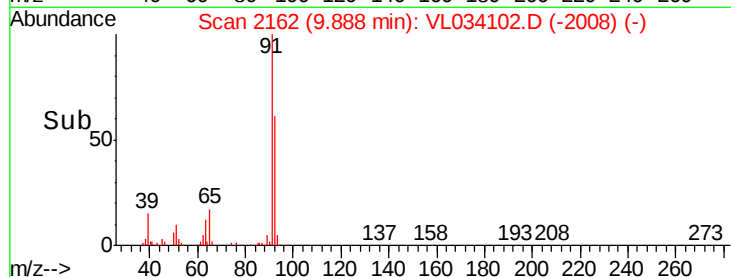
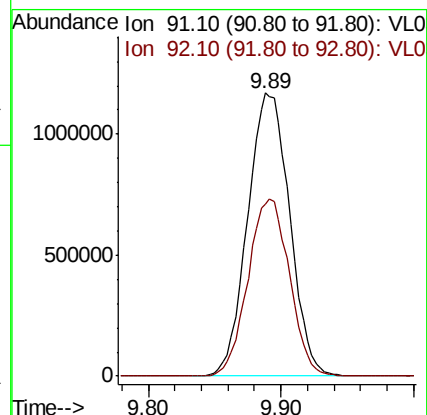
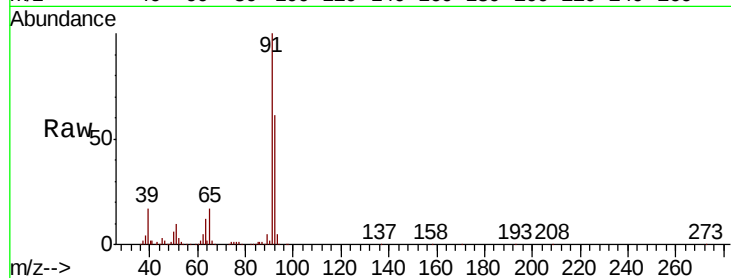
VL0812ABS01

Tgt Ion: 91 Resp: 2581202

Ion Ratio Lower Upper

91 100

92 62.0 50.3 75.5



#54

1,2-Dibromoethane

Concen: 8.509 ppbv

RT: 10.70 min Scan# 2416

Delta R.T. -0.00 min

Lab File: VL034102.D

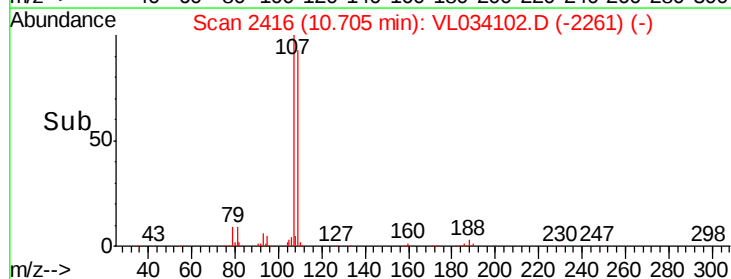
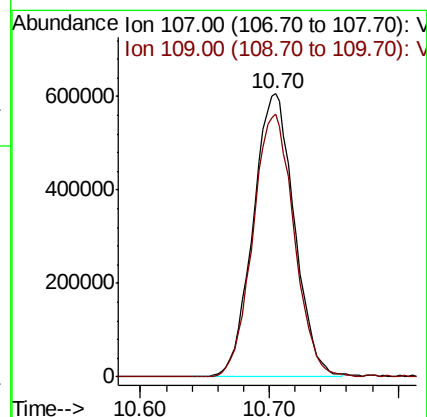
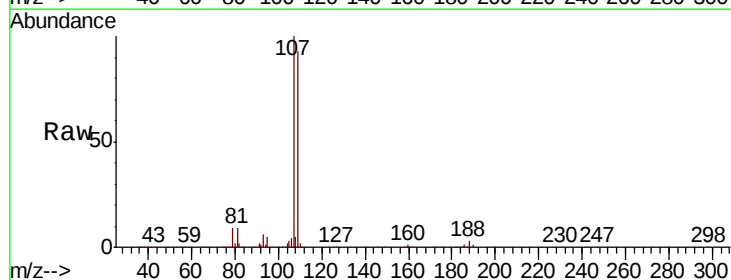
Acq: 12 Aug 2019 12:59

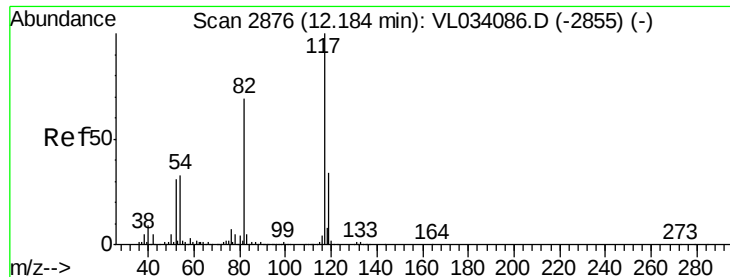
Tgt Ion: 107 Resp: 1349244

Ion Ratio Lower Upper

107 100

109 93.1 72.9 109.3

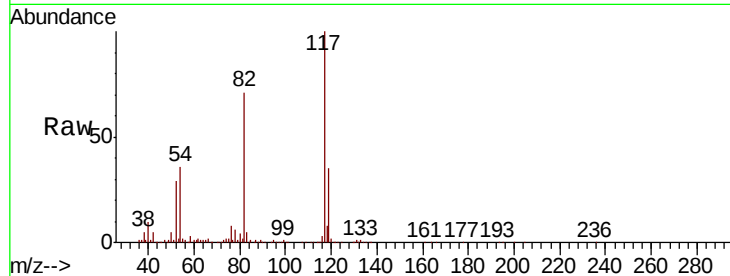




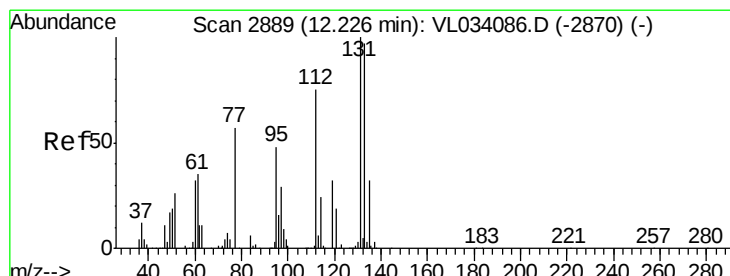
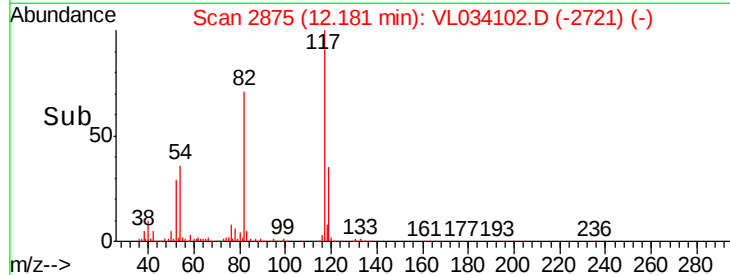
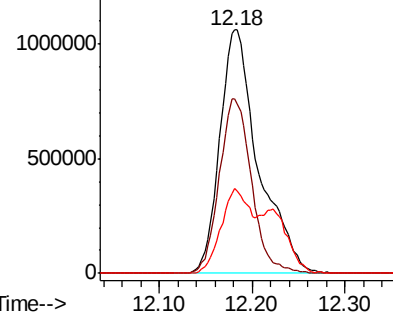
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.18 min Scan# 2875
Delta R.T. -0.00 min
Lab File: VL034102.D
Acq: 12 Aug 2019 12:59

Instrument :
MSVOA_L
ClientSampleId :
VL0812ABS01

Tgt Ion:117 Resp: 3074329
Ion Ratio Lower Upper
117 100
82 59.9 52.2 78.4
119 46.0 44.8 67.2

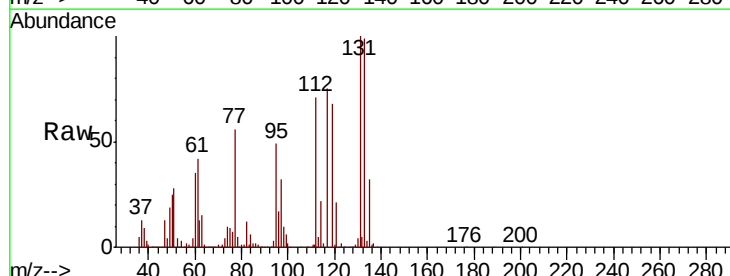


Abundance Ion 117.10 (116.80 to 117.80): V
Ion 82.10 (81.80 to 82.80): VL0
Ion 119.10 (118.80 to 119.80): V

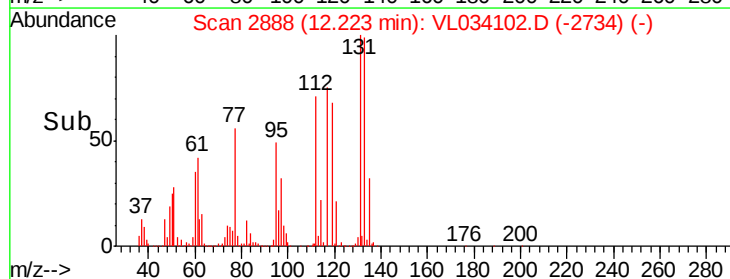
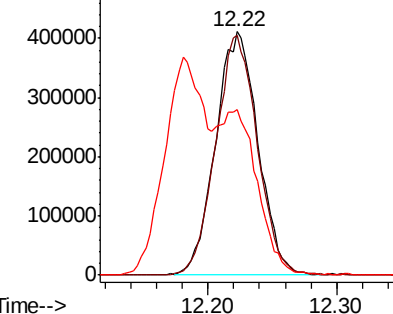


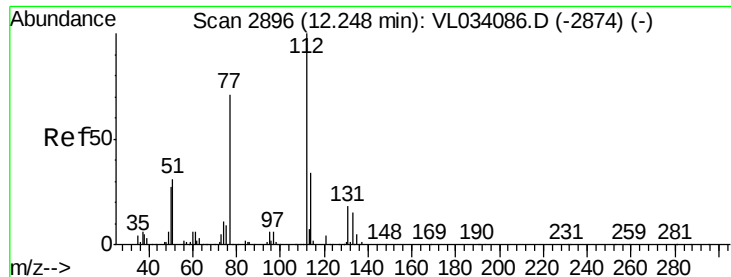
#56
1,1,1,2-Tetrachloroethane
Concen: 6.640 ppbv
RT: 12.22 min Scan# 2888
Delta R.T. -0.00 min
Lab File: VL034102.D
Acq: 12 Aug 2019 12:59

Tgt Ion:131 Resp: 933282
Ion Ratio Lower Upper
131 100
133 97.4 76.5 114.7
119 152.0 114.7 172.1



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: 6.526 ppbv

RT: 12.24 min Scan# 2894

Delta R.T. -0.01 min

Lab File: VL034102.D

Acq: 12 Aug 2019 12:59

Instrument :

MSVOA_L

ClientSampleId :

VL0812ABS01

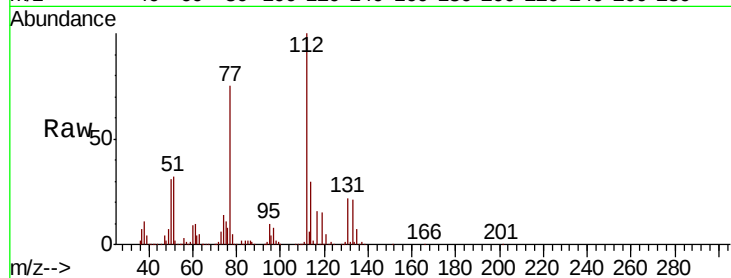
Tgt Ion: 112 Resp: 1806772

Ion Ratio Lower Upper

112 100

77 74.2 57.8 86.6

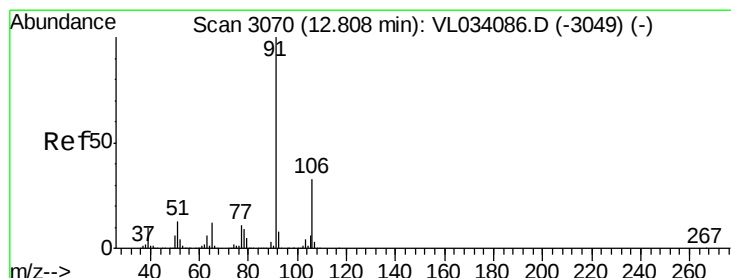
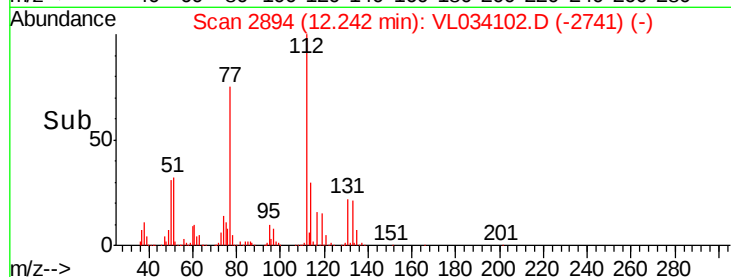
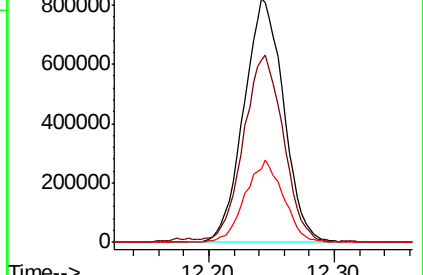
114 29.8 30.3 37.1#



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: 6.725 ppbv

RT: 12.81 min Scan# 3070

Delta R.T. -0.00 min

Lab File: VL034102.D

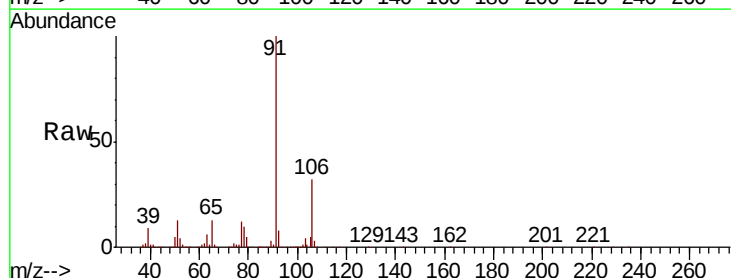
Acq: 12 Aug 2019 12:59

Tgt Ion: 91 Resp: 3476663

Ion Ratio Lower Upper

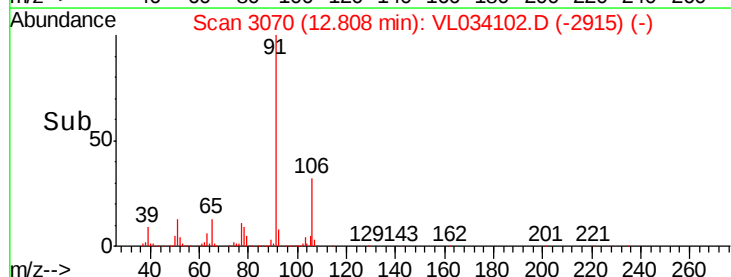
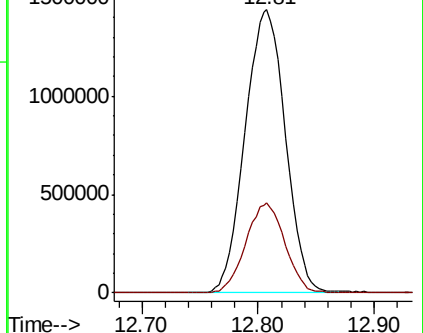
91 100

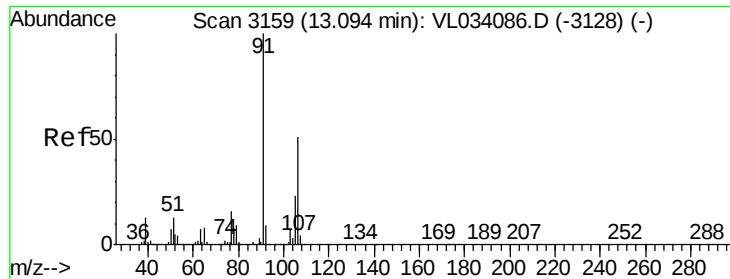
106 31.6 26.0 39.0



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V

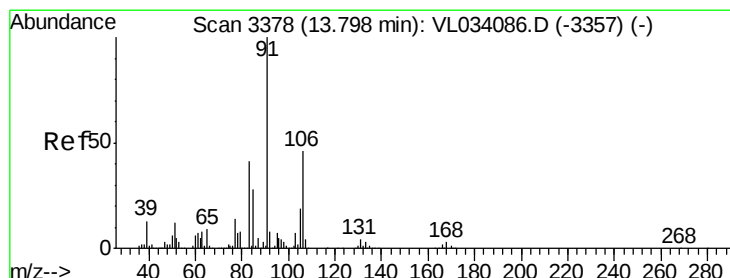
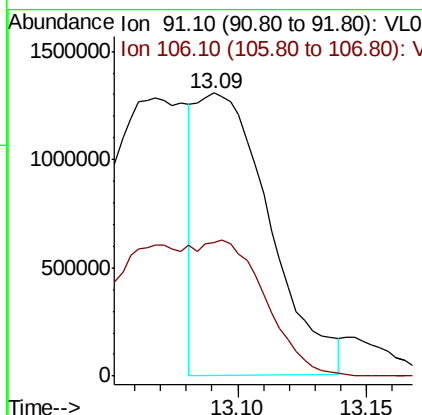
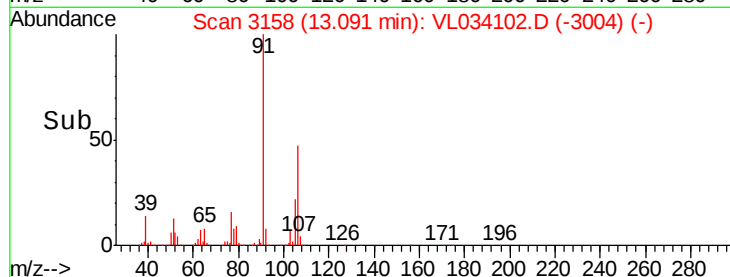
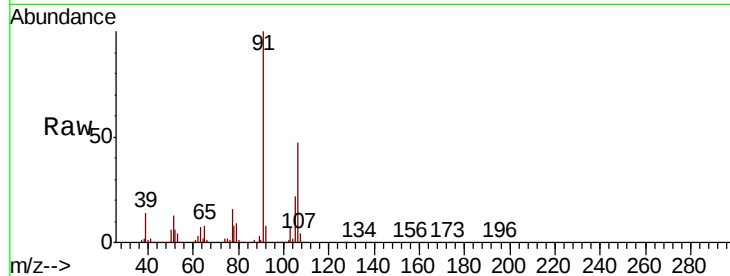




#59
m/p-Xylene
Concen: 6.205 ppbv
RT: 13.09 min Scan# 3158
Delta R.T. -0.00 min
Lab File: VL034102.D
Acq: 12 Aug 2019 12:59

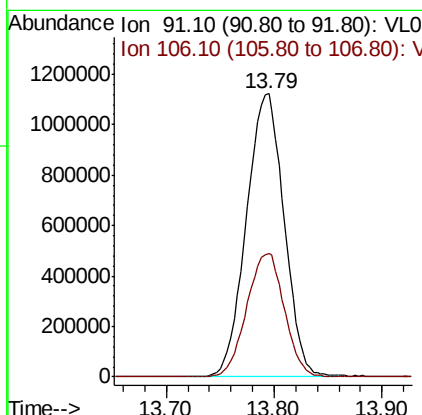
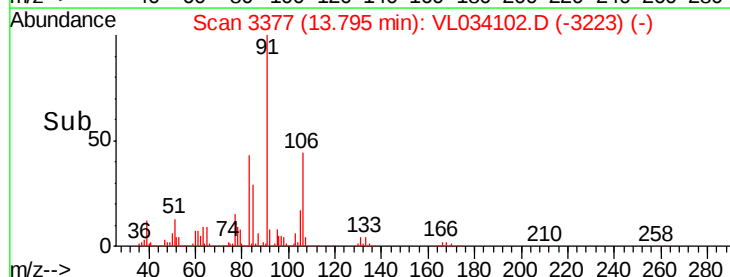
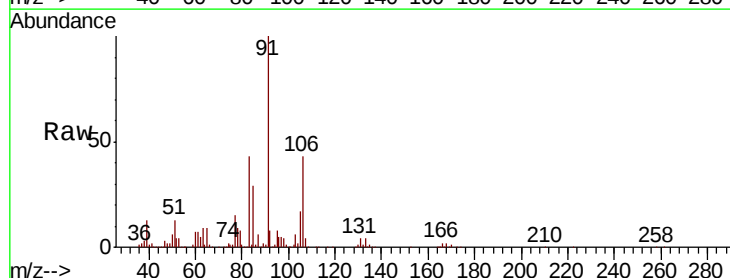
Instrument :
MSVOA_L
ClientSampleId :
VL0812ABS01

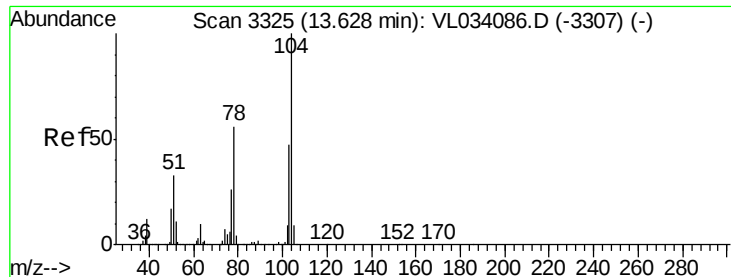
Tgt Ion: 91 Resp: 2574861
Ion Ratio Lower Upper
91 100
106 97.8 38.7 58.1#



#60
o-Xylene
Concen: 6.571 ppbv
RT: 13.79 min Scan# 3377
Delta R.T. -0.00 min
Lab File: VL034102.D
Acq: 12 Aug 2019 12:59

Tgt Ion: 91 Resp: 2725067
Ion Ratio Lower Upper
91 100
106 43.5 22.6 67.7

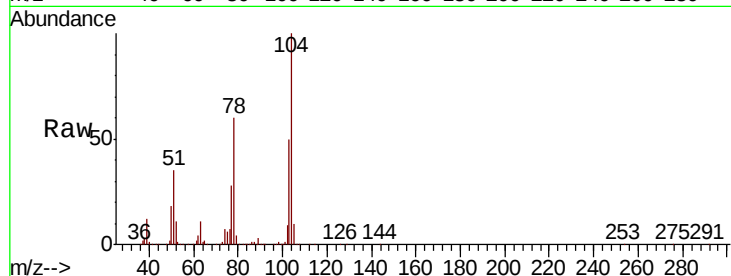




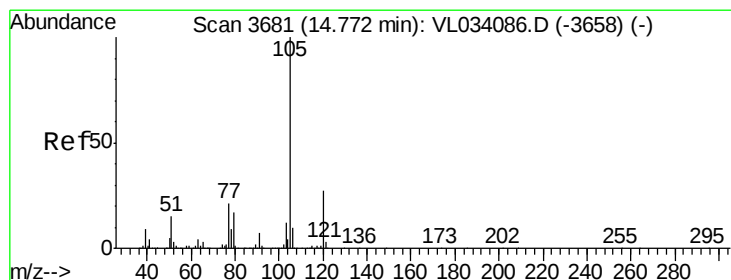
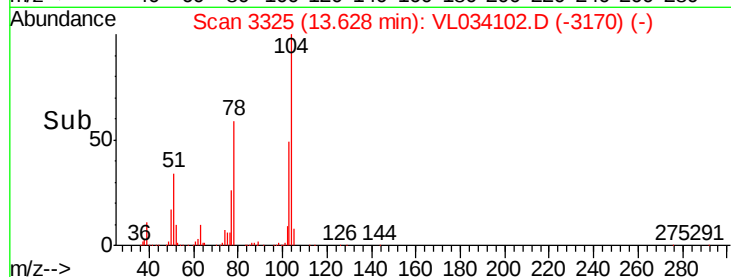
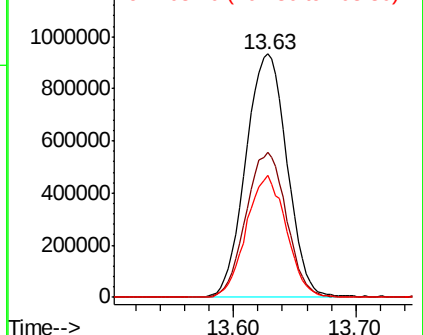
#61
Styrene
Concen: 6.636 ppbv
RT: 13.63 min Scan# 3325
Delta R.T. -0.00 min
Lab File: VL034102.D
Acq: 12 Aug 2019 12:59

Instrument :
MSVOA_L
ClientSampleId :
VL0812ABS01

Tgt Ion:104 Resp: 2184104
Ion Ratio Lower Upper
104 100
78 58.6 44.2 66.4
103 48.7 38.3 57.5

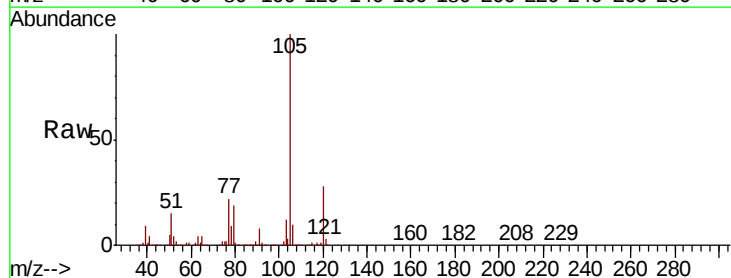


Abundance Ion 104.10 (103.80 to 104.80): V
Ion 78.10 (77.80 to 78.80): VL0
Ion 103.10 (102.80 to 103.80): V

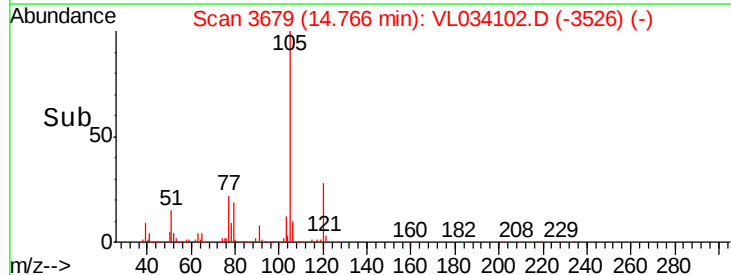
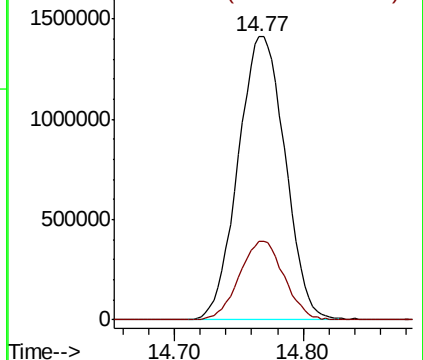


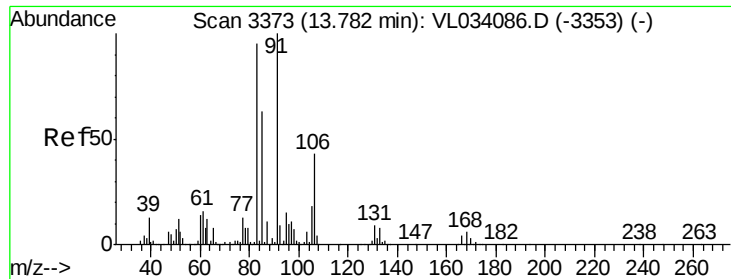
#62
Isopropylbenzene
Concen: 6.439 ppbv
RT: 14.77 min Scan# 3679
Delta R.T. -0.01 min
Lab File: VL034102.D
Acq: 12 Aug 2019 12:59

Tgt Ion:105 Resp: 3584437
Ion Ratio Lower Upper
105 100
120 26.6 21.4 32.2



Abundance Ion 105.10 (104.80 to 105.80): V
Ion 120.20 (119.90 to 120.90): V

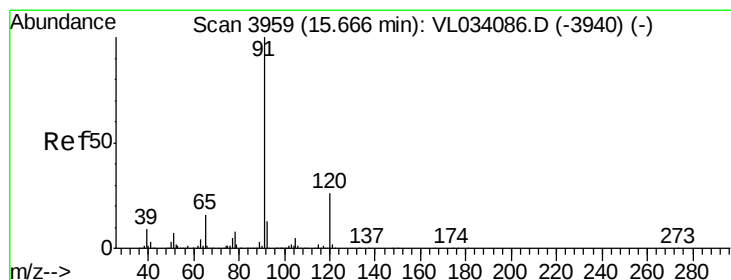
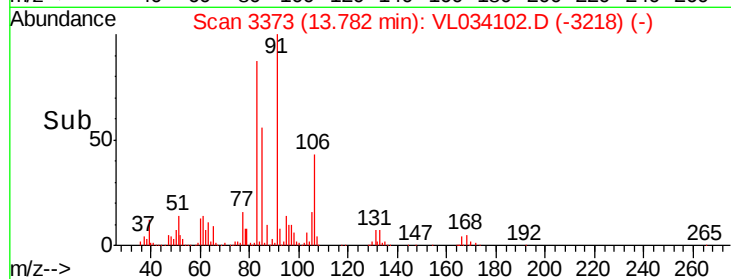
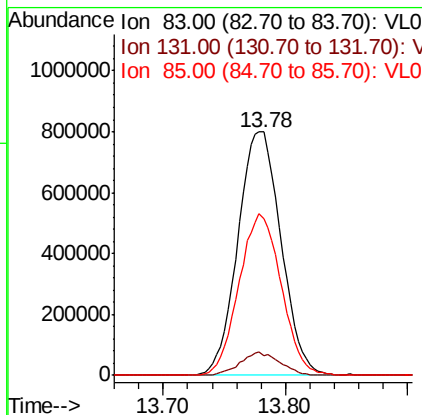
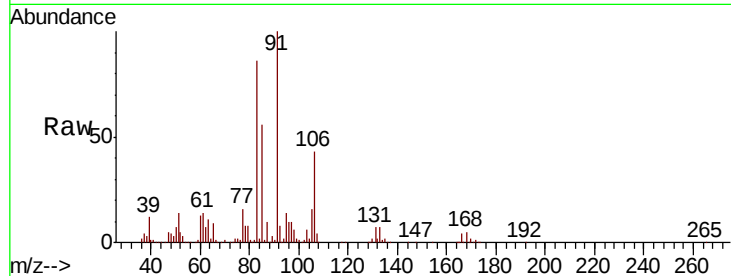




#63
 1,1,2,2-Tetrachloroethane
 Concen: 6.515 ppbv
 RT: 13.78 min Scan# 3373
 Delta R.T. -0.00 min
 Lab File: VL034102.D
 Acq: 12 Aug 2019 12:59

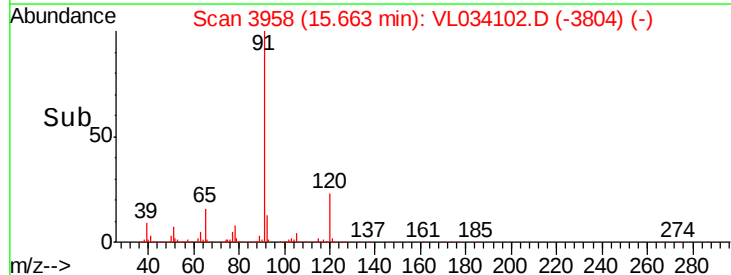
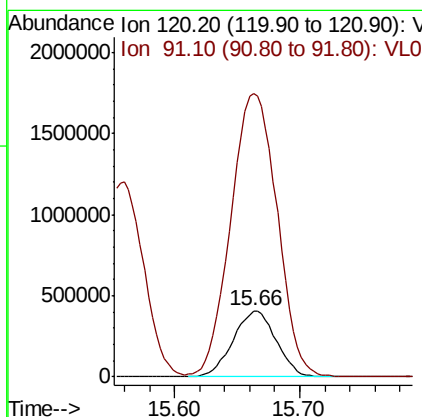
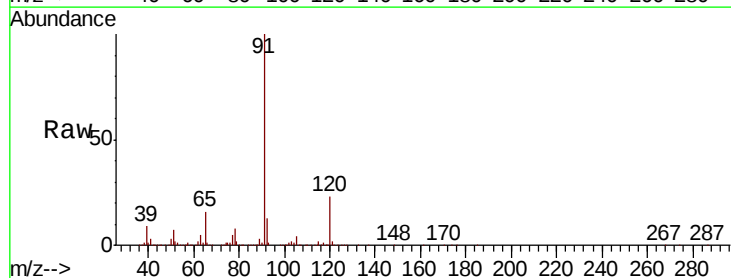
Instrument :
 MSVOA_L
 ClientSampleId :
 VL0812ABS01

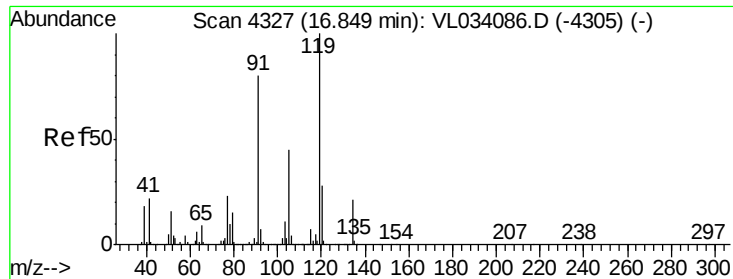
Tgt Ion: 83 Resp: 1951509
 Ion Ratio Lower Upper
 83 100
 131 8.7 4.6 13.8
 85 65.2 32.6 97.8



#64
 n-propylbenzene
 Concen: 6.527 ppbv
 RT: 15.66 min Scan# 3958
 Delta R.T. -0.00 min
 Lab File: VL034102.D
 Acq: 12 Aug 2019 12:59

Tgt Ion: 120 Resp: 960198
 Ion Ratio Lower Upper
 120 100
 91 468.4 359.7 539.5





#65

tert-Butylbenzene

Concen: 6.195 ppbv

RT: 16.85 min Scan# 4327

Delta R.T. -0.00 min

Lab File: VL034102.D

Acq: 12 Aug 2019 12:59

Instrument :

MSVOA_L

ClientSampleId :

VL0812ABS01

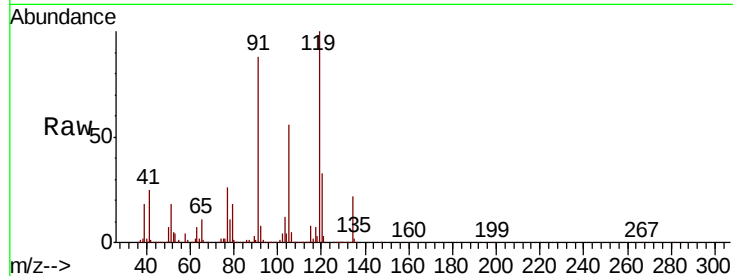
Tgt Ion:119 Resp: 3071691

Ion Ratio Lower Upper

119 100

91 89.1 67.6 101.4

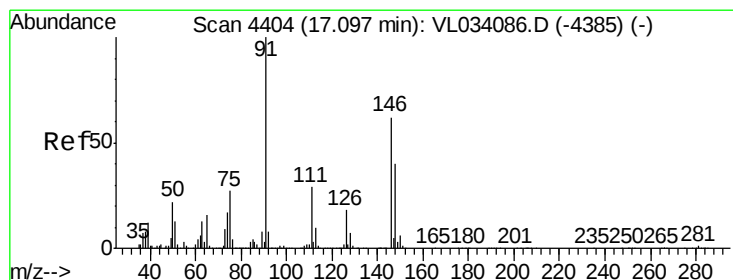
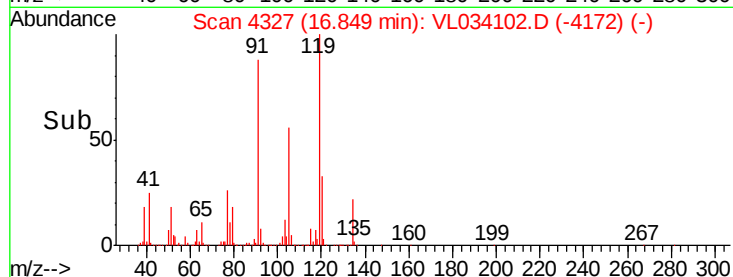
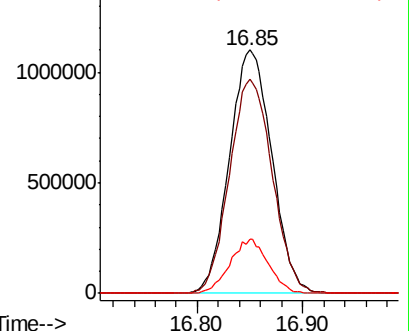
134 20.1 16.0 24.0



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: 6.763 ppbv

RT: 17.10 min Scan# 4404

Delta R.T. -0.00 min

Lab File: VL034102.D

Acq: 12 Aug 2019 12:59

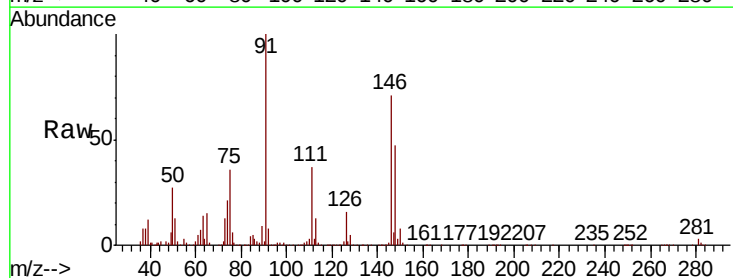
Tgt Ion: 91 Resp: 1856212

Ion Ratio Lower Upper

91 100

126 17.1 14.8 22.2

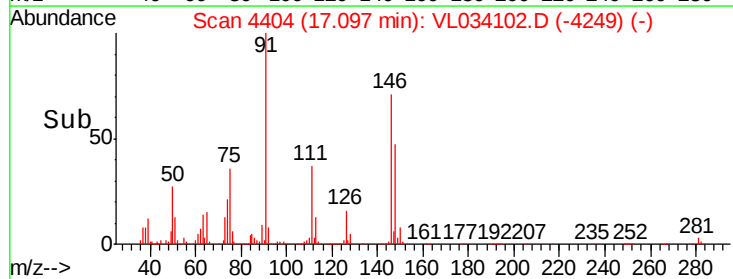
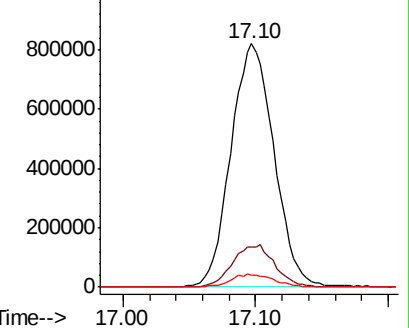
128 5.2 4.8 7.2

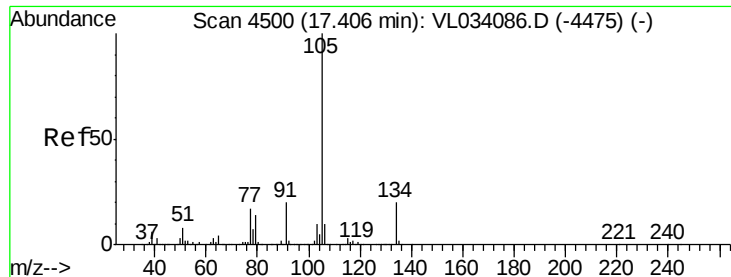


Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 126.10 (125.80 to 126.80): V

Ion 128.10 (127.80 to 128.80): V





#67

sec-Butylbenzene

Concen: 6.240 ppbv

RT: 17.40 min Scan# 4498

Delta R.T. -0.01 min

Lab File: VL034102.D

Acq: 12 Aug 2019 12:59

Instrument :

MSVOA_L

ClientSampleId :

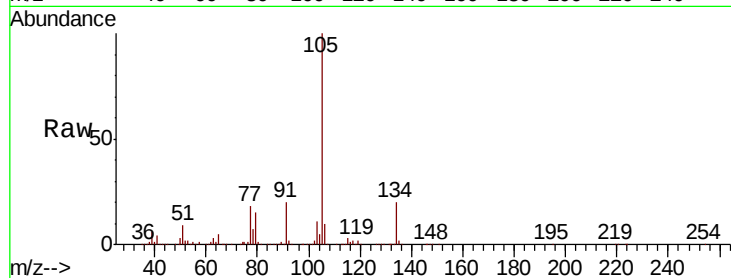
VL0812ABS01

Tgt Ion:105 Resp: 4366341

Ion Ratio Lower Upper

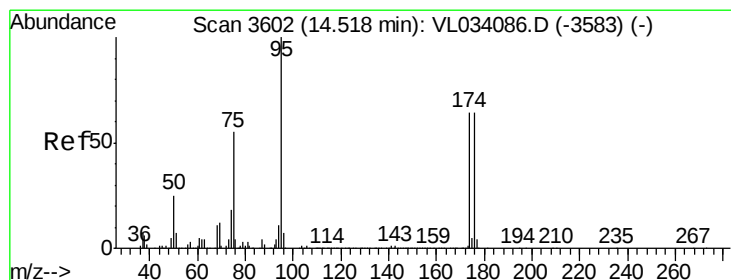
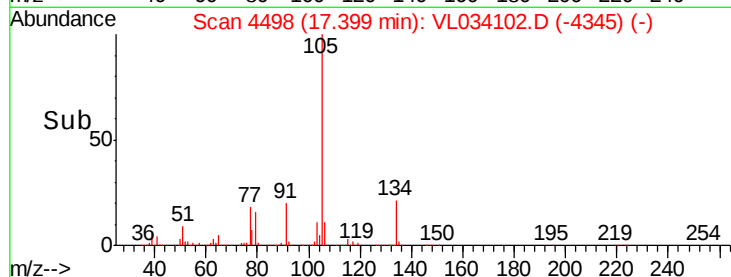
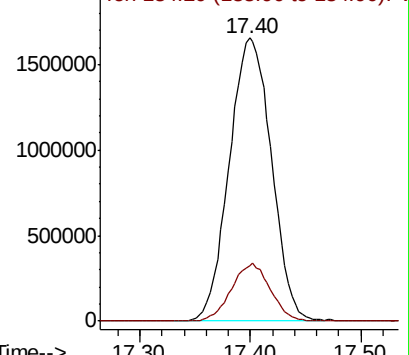
105 100

134 18.9 15.4 23.2



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: 8.476 ppbv

RT: 14.52 min Scan# 3602

Delta R.T. -0.00 min

Lab File: VL034102.D

Acq: 12 Aug 2019 12:59

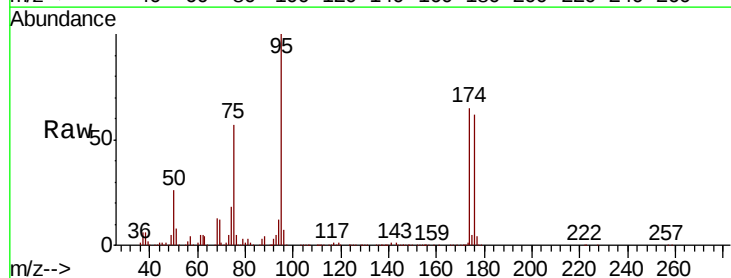
Tgt Ion: 95 Resp: 2114330

Ion Ratio Lower Upper

95 100

174 63.4 53.0 79.6

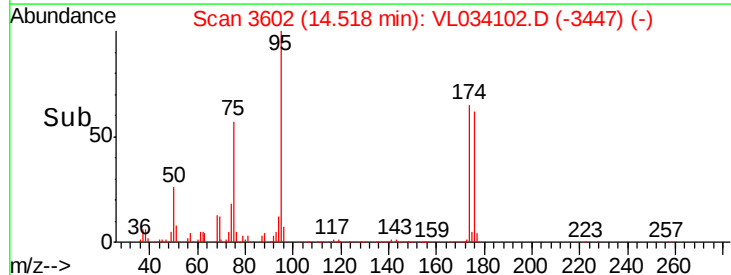
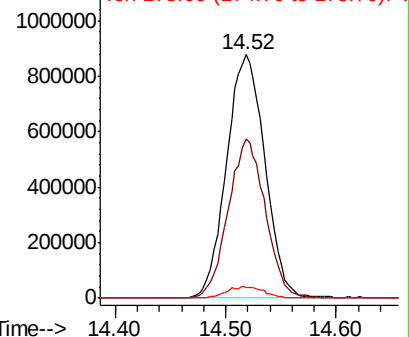
175 4.7 4.2 6.2

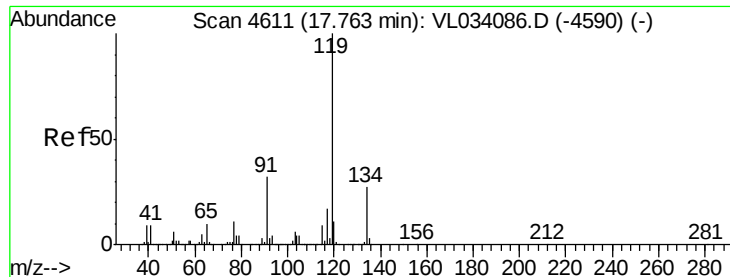


Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V

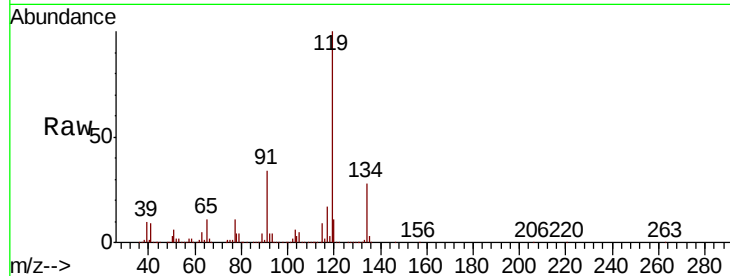




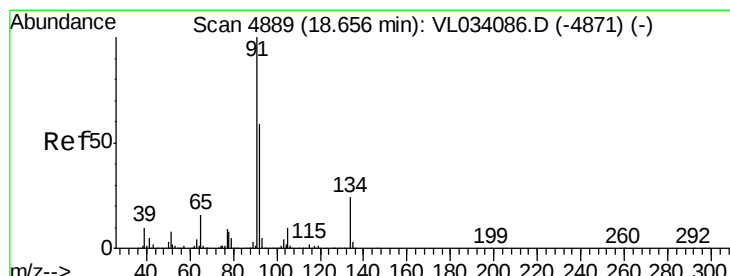
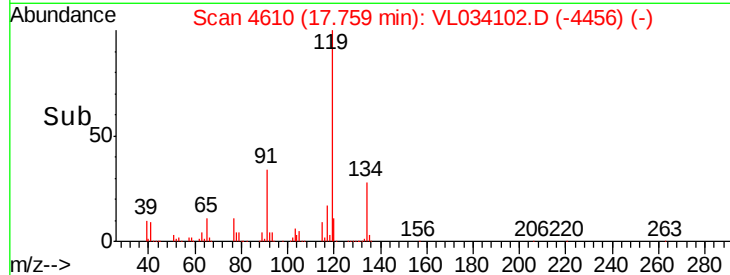
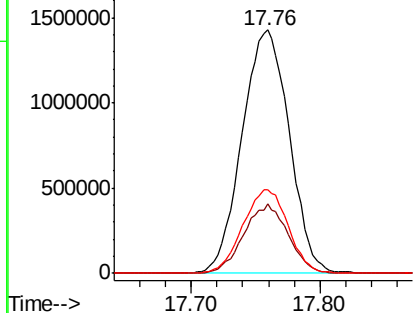
#69
 p-Isopropyltoluene
 Concen: 6.281 ppbv
 RT: 17.76 min Scan# 4610
 Delta R.T. -0.00 min
 Lab File: VL034102.D
 Acq: 12 Aug 2019 12:59

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0812ABS01

Tgt Ion: 119 Resp: 3625397
 Ion Ratio Lower Upper
 119 100
 134 26.7 21.3 31.9
 91 33.4 25.4 38.0

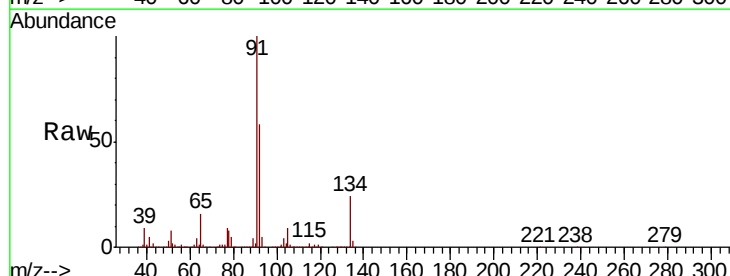


Abundance Ion 119.10 (118.80 to 119.80): V
 Ion 134.20 (133.90 to 134.90): V
 Ion 91.10 (90.80 to 91.80): V

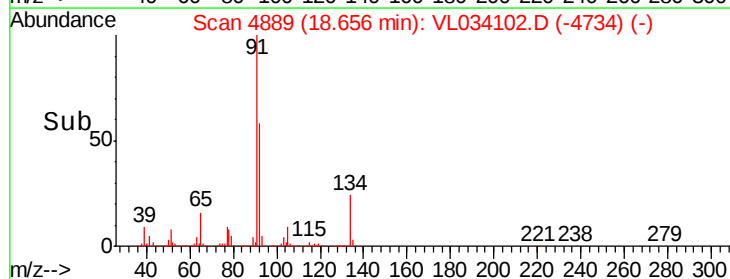
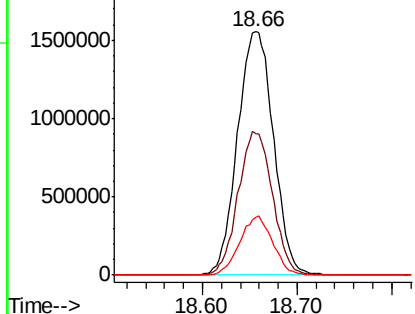


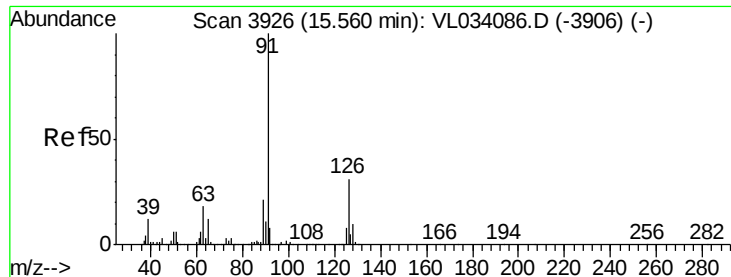
#70
 n-Butylbenzene
 Concen: 6.587 ppbv
 RT: 18.66 min Scan# 4889
 Delta R.T. -0.00 min
 Lab File: VL034102.D
 Acq: 12 Aug 2019 12:59

Tgt Ion: 91 Resp: 4101473
 Ion Ratio Lower Upper
 91 100
 92 56.4 45.9 68.9
 134 22.3 19.0 28.4



Abundance Ion 91.10 (90.80 to 91.80): VL0
 Ion 92.10 (91.80 to 92.80): VL0
 Ion 134.20 (133.90 to 134.90): V

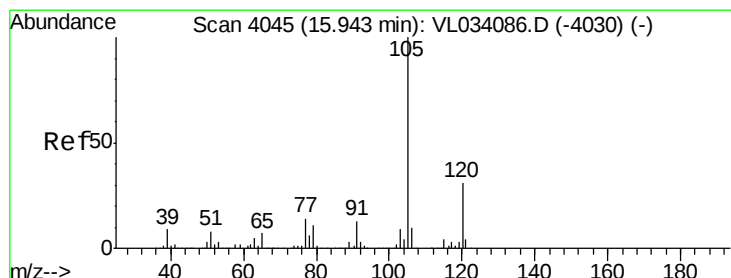
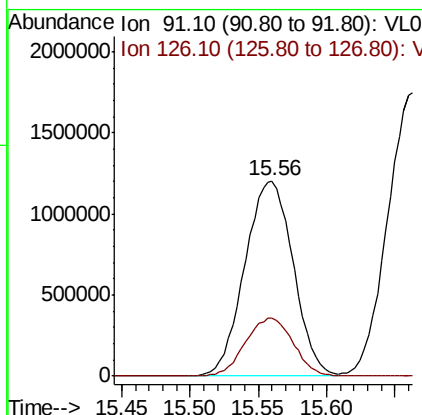
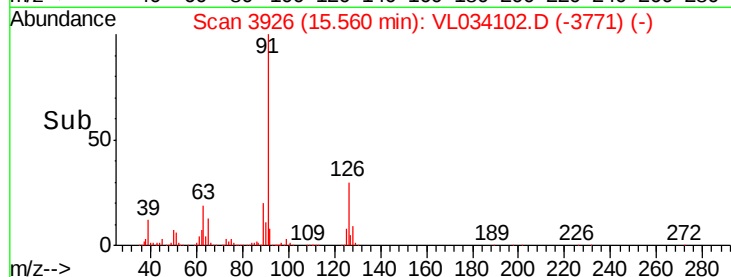
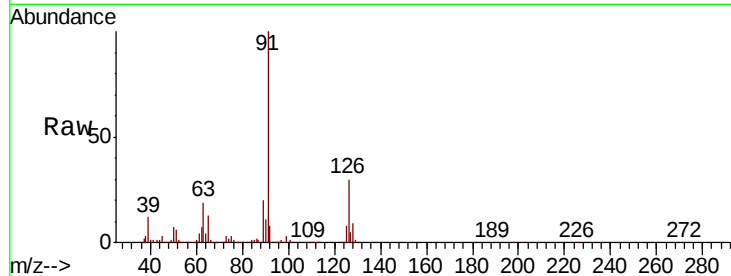




#71
 2-Chlorotoluene
 Concen: 6.614 ppbv
 RT: 15.56 min Scan# 3926
 Delta R.T. -0.00 min
 Lab File: VL034102.D
 Acq: 12 Aug 2019 12:59

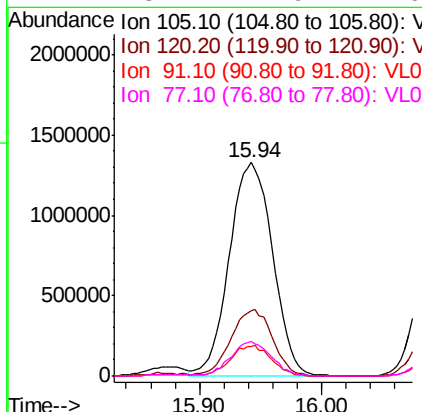
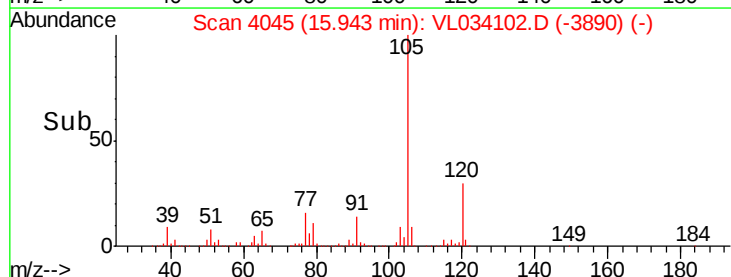
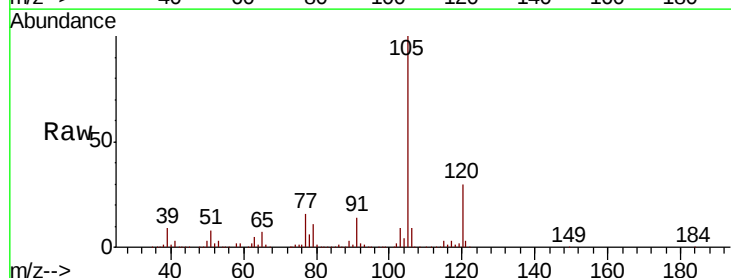
Instrument :
 MSVOA_L
 ClientSampleId :
 VL0812ABS01

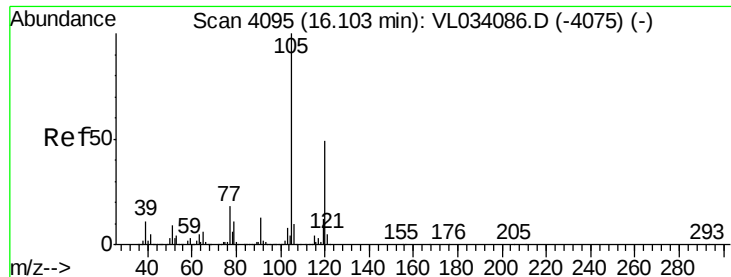
Tgt Ion: 91 Resp: 2960330
 Ion Ratio Lower Upper
 91 100
 126 29.5 12.2 48.6



#72
 4-Ethyltoluene
 Concen: 6.673 ppbv
 RT: 15.94 min Scan# 4045
 Delta R.T. -0.00 min
 Lab File: VL034102.D
 Acq: 12 Aug 2019 12:59

Tgt Ion: 105 Resp: 3256921
 Ion Ratio Lower Upper
 105 100
 120 29.9 24.2 36.2
 91 13.5 10.5 15.7
 77 15.2 11.9 17.9





#73

1,3,5-Trimethylbenzene

Concen: 6.594 ppbv

RT: 16.10 min Scan# 4094

Delta R.T. -0.00 min

Lab File: VL034102.D

Acq: 12 Aug 2019 12:59

Instrument :

MSVOA_L

ClientSampleId :

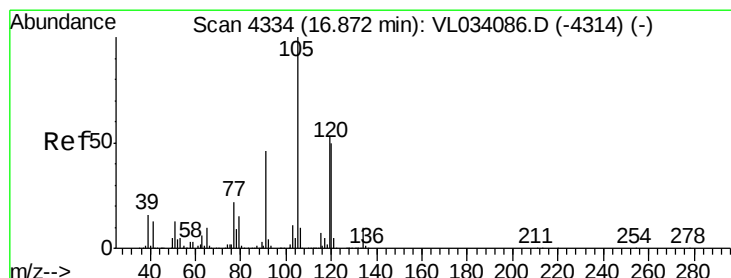
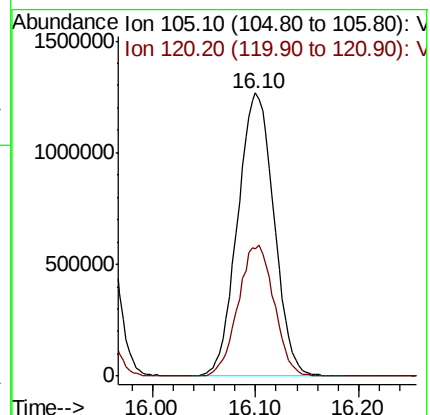
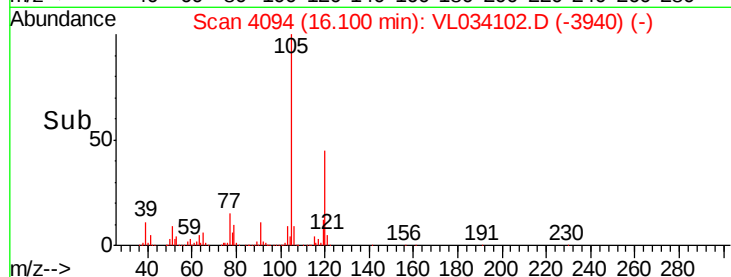
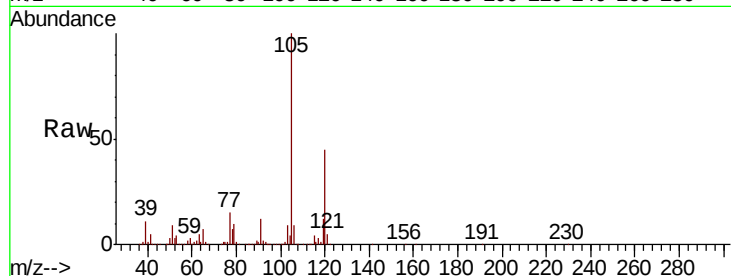
VL0812ABS01

Tgt Ion:105 Resp: 3095956

Ion Ratio Lower Upper

105 100

120 44.7 39.0 58.4



#74

1,2,4-Trimethylbenzene

Concen: 6.274 ppbv

RT: 16.87 min Scan# 4333

Delta R.T. -0.00 min

Lab File: VL034102.D

Acq: 12 Aug 2019 12:59

Tgt Ion:105 Resp: 3064246

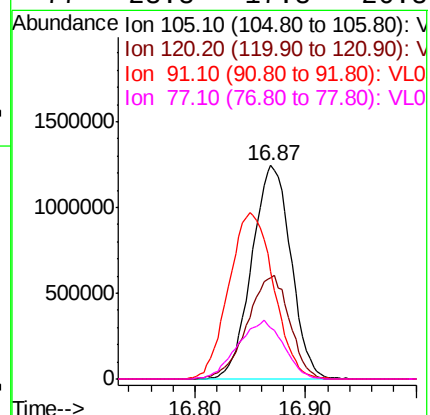
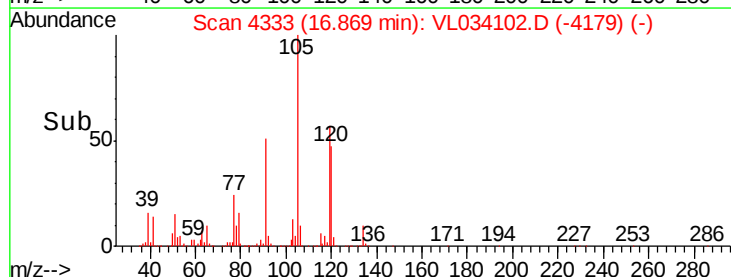
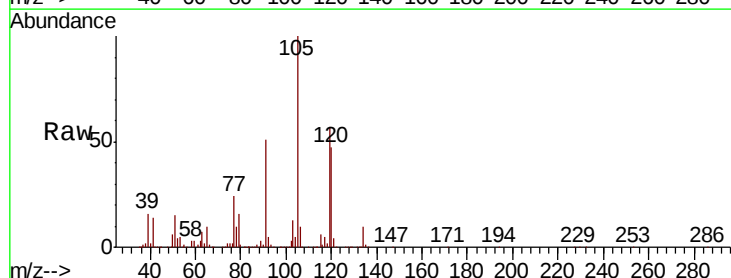
Ion Ratio Lower Upper

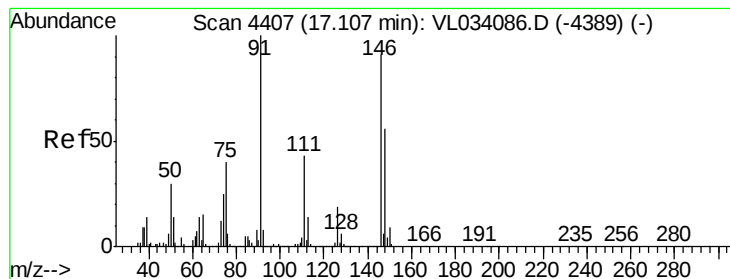
105 100

120 47.2 40.2 60.4

91 50.5 38.1 57.1

77 23.8 17.8 26.8





#75

1,3-Dichlorobenzene

Concen: 6.460 ppbv

RT: 17.11 min Scan# 4407

Delta R.T. -0.00 min

Lab File: VL034102.D

Acq: 12 Aug 2019 12:59

Instrument :

MSVOA_L

ClientSampleId :

VL0812ABS01

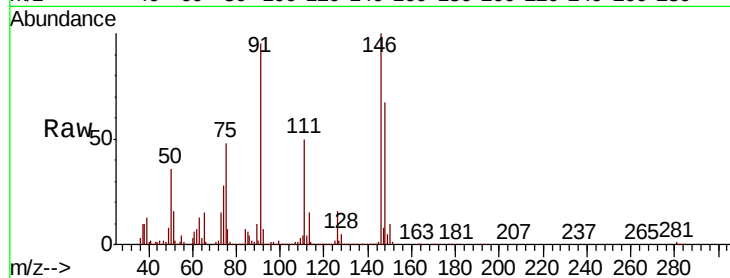
Tgt Ion:146 Resp: 1767170

Ion Ratio Lower Upper

146 100

111 48.4 23.8 71.5

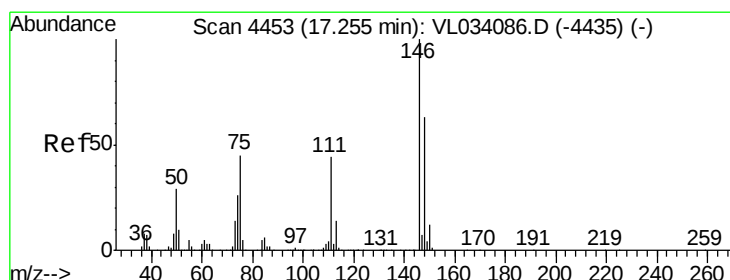
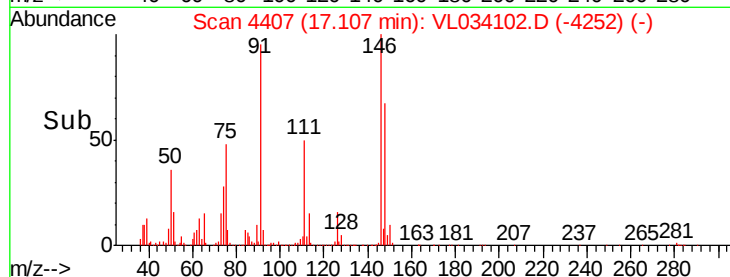
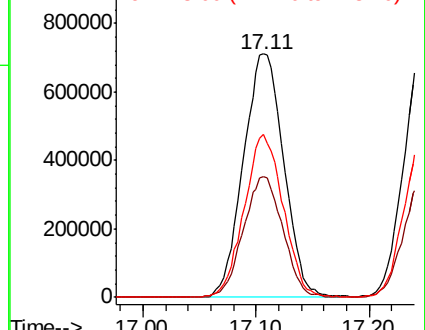
148 64.6 32.4 97.2



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: 6.422 ppbv

RT: 17.25 min Scan# 4451

Delta R.T. -0.01 min

Lab File: VL034102.D

Acq: 12 Aug 2019 12:59

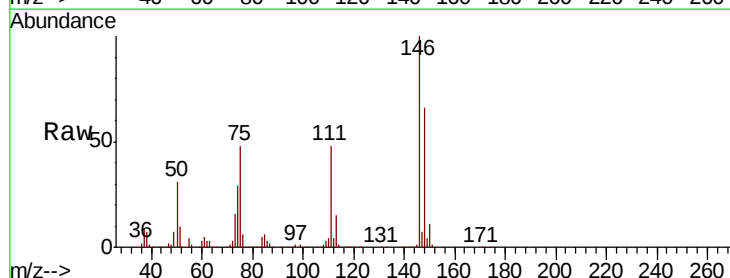
Tgt Ion:146 Resp: 1795063

Ion Ratio Lower Upper

146 100

111 48.1 23.2 69.5

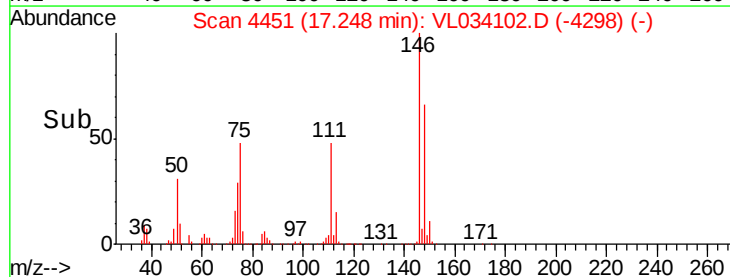
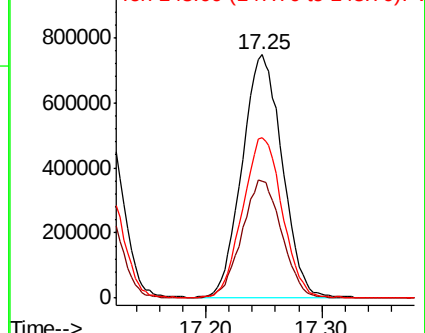
148 65.8 32.1 96.5

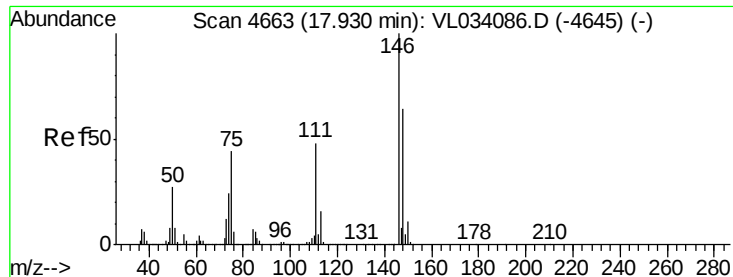


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.10 (110.80 to 111.80): V

Ion 148.00 (147.70 to 148.70): V

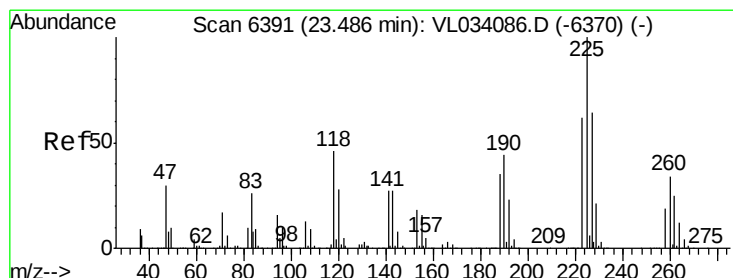
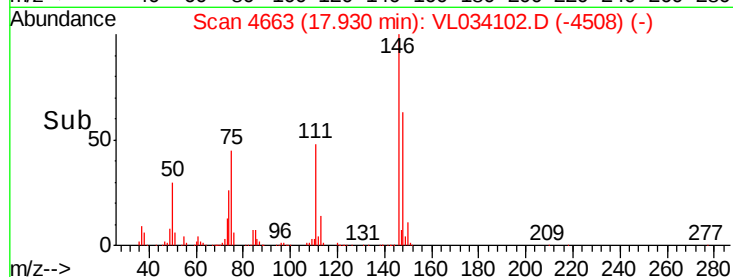
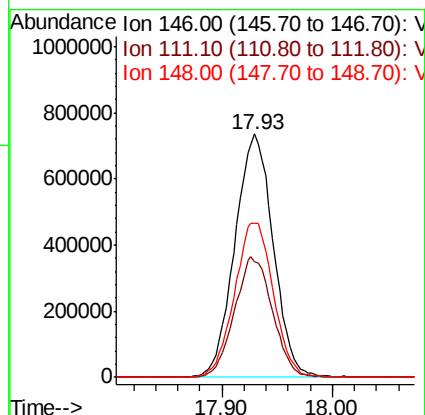
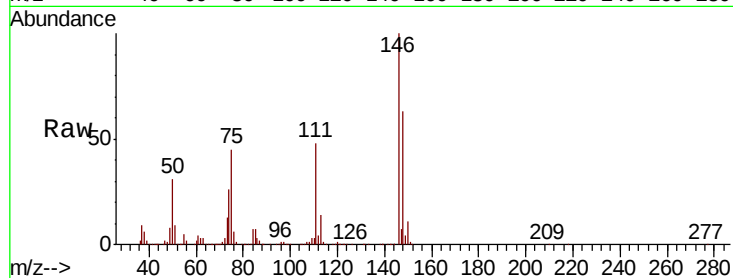




#77
 1,2-Dichlorobenzene
 Concen: 6.528 ppbv
 RT: 17.93 min Scan# 4663
 Delta R.T. -0.00 min
 Lab File: VL034102.D
 Acq: 12 Aug 2019 12:59

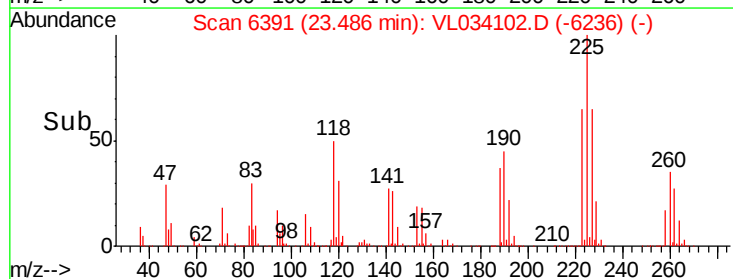
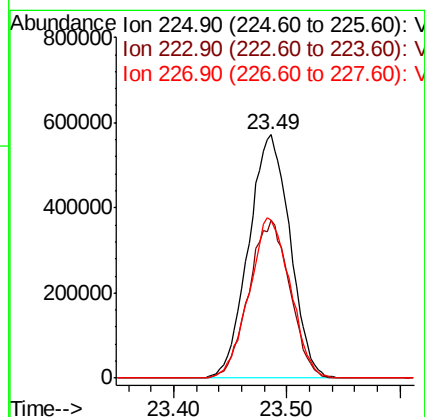
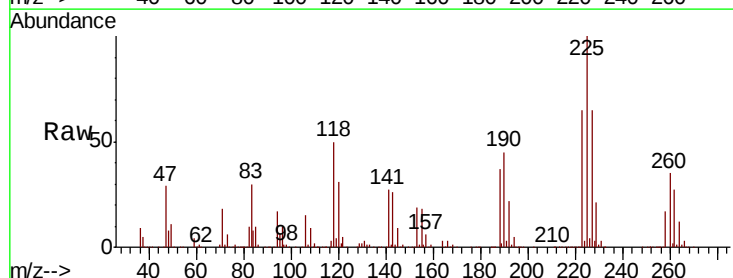
Instrument :
 MSVOA_L
 ClientSampleId :
 VL0812ABS01

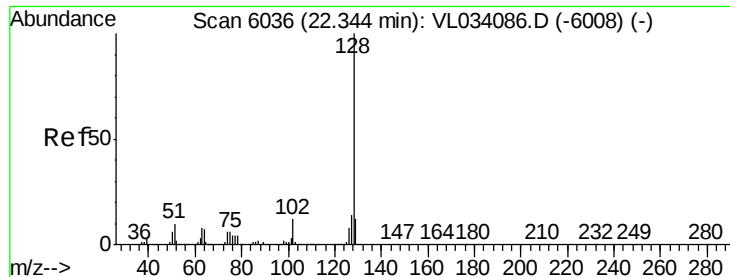
Tgt Ion:146 Resp: 1760657
 Ion Ratio Lower Upper
 146 100
 111 49.5 24.0 72.0
 148 65.0 31.9 95.7



#78
 Hexachloro-1,3-Butadiene
 Concen: 6.796 ppbv
 RT: 23.49 min Scan# 6391
 Delta R.T. -0.00 min
 Lab File: VL034102.D
 Acq: 12 Aug 2019 12:59

Tgt Ion:225 Resp: 1453022
 Ion Ratio Lower Upper
 225 100
 223 64.2 50.8 76.2
 227 65.2 52.2 78.2





#79

Naphthalene

Concen: 6.028 ppbv

RT: 22.34 min Scan# 6034

Delta R.T. -0.01 min

Lab File: VL034102.D

Acq: 12 Aug 2019 12:59

Instrument :

MSVOA_L

ClientSampleId :

VL0812ABS01

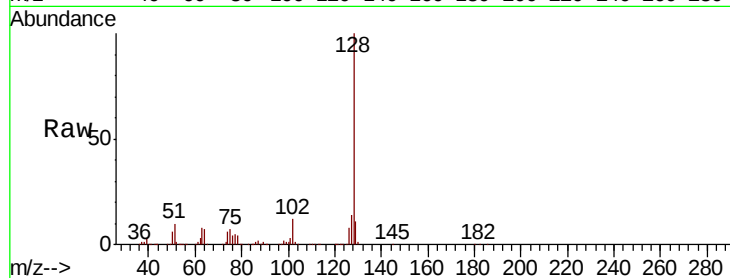
Tgt Ion:128 Resp: 3058034

Ion Ratio Lower Upper

128 100

127 13.7 11.0 16.6

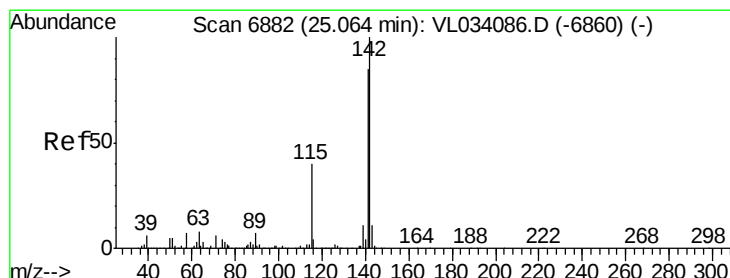
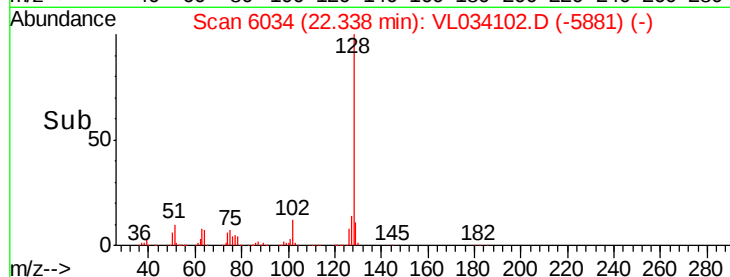
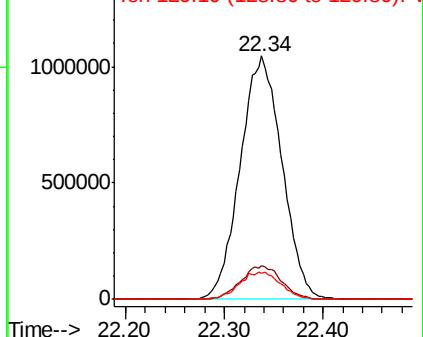
129 10.9 9.2 13.8



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: 8.653 ppbv

RT: 25.06 min Scan# 6882

Delta R.T. -0.00 min

Lab File: VL034102.D

Acq: 12 Aug 2019 12:59

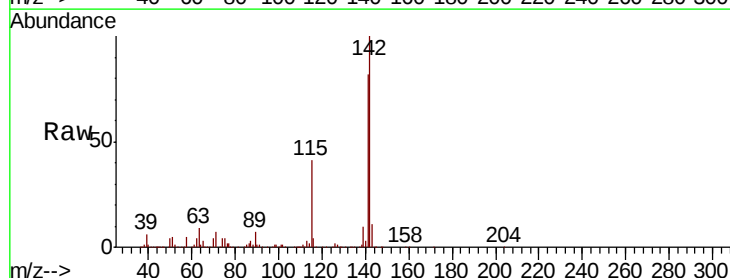
Tgt Ion:142 Resp: 1376499

Ion Ratio Lower Upper

142 100

141 84.3 66.1 99.1

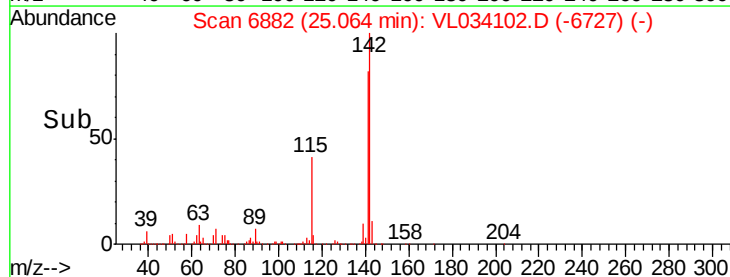
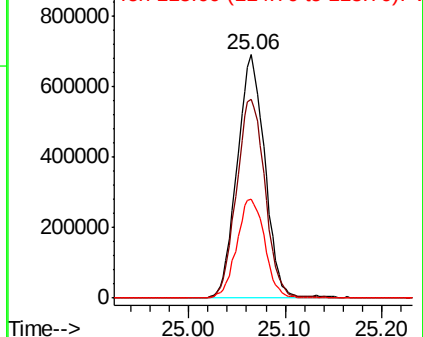
115 41.5 30.8 46.2

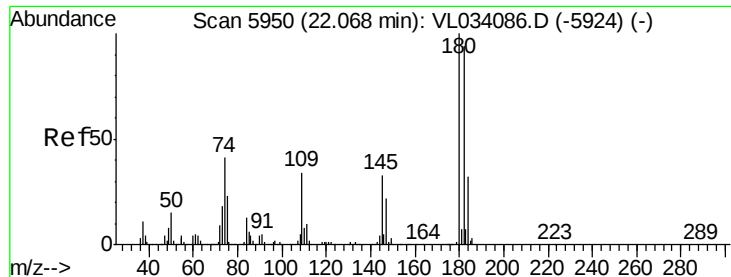


Abundance Ion 142.00 (141.70 to 142.70): V

Ion 141.00 (140.70 to 141.70): V

Ion 115.00 (114.70 to 115.70): V





#81
 1,2,4-Trichlorobenzene
 Concen: 6.163 ppbv
 RT: 22.06 min Scan# 5949
 Delta R.T. -0.00 min
 Lab File: VL034102.D
 Acq: 12 Aug 2019 12:59

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0812ABS01

Tgt Ion:180 Resp: 1735429
 Ion Ratio Lower Upper
 180 100
 182 95.7 76.7 115.1
 184 30.8 25.0 37.4

