

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL012819\
 Data File : VL033125.D
 Acq On : 29 Jan 2019 2:29
 Operator : SY/AP
 Sample : VL0128ABS01
 Misc : 400ml/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0128ABS01

Quant Time: Jan 29 06:41:36 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL012819AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue Jan 29 06:21:00 2019
 QLast Update : Tue Jan 29 06:21:00 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.76	49	1186912	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.29	114	3045553	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.24	117	3255588	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.58	95	1987600	8.07	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	80.70%

Target Compounds					Qvalue
2) Dichlorodifluoromethane	3.08	85	2388127	8.499	ppbv 100
3) Chlorodifluoromethane	3.01	51	1300797	8.261	ppbv 99
4) Chloromethane	3.17	50	707920	8.275	ppbv 98
5) Vinyl Chloride	3.29	62	739226	7.572	ppbv 98
6) Bromomethane	3.52	94	490788	8.527	ppbv 98
7) Chloroethane	3.60	64	283475	8.508	ppbv 95
8) Dichlorotetrafluoroethane	3.22	85	1899997	8.449	ppbv 99
9) Propene	3.04	41	534852	8.721	ppbv 98
10) Heptane	8.25	43	1407995	9.462	ppbv 99
11) Trichlorofluoromethane	4.00	101	2028754	8.470	ppbv 96
12) 1,1,2-Trichlorotrifluoroet	4.55	101	1406636	8.464	ppbv 99
13) Ethanol	3.65	45	142445	6.473	ppbv 99
14) Bromoethene	3.79	108	618245	8.589	ppbv 100
15) Acetone	3.90	43	1279011	7.980	ppbv 100
16) 1,3-Butadiene	3.36	39	618144	9.227	ppbv 93
17) tert-Butyl alcohol	4.36	59	304575	8.559	ppbv 99
18) 1,1-Dichloroethene	4.35	96	645186	8.746	ppbv 98
19) Isopropyl Alcohol	4.03	45	885659	8.114	ppbv # 99
20) Methylene Chloride	4.41	84	553157	7.601	ppbv 99
21) Allyl Chloride	4.48	41	1004010	8.991	ppbv 99
22) trans-1,2-Dichloroethene	4.97	96	666171	8.990	ppbv 97
23) Vinyl Acetate	5.16	43	2052779	9.058	ppbv 99
24) 1,1-Dichloroethane	5.09	63	1570094	8.555	ppbv 99
25) Ethyl Acetate	5.77	43	2455822	8.614	ppbv 100
26) Hexane	5.78	57	1151228	8.418	ppbv 99
27) Carbon Disulfide	4.62	76	1649708	9.240	ppbv 99
28) Methyl tert-Butyl Ether	5.11	73	1957775	9.124	ppbv 99
29) Chloroform	5.85	83	1929307	8.562	ppbv 96
30) Cyclohexane	7.25	84	1016424	9.895	ppbv 98
31) cis-1,2-Dichloroethene	5.64	61	1173590	9.400	ppbv 94
32) 1,1,1-Trichloroethane	6.62	97	2042526	7.006	ppbv 99
34) 2-Butanone	5.33	43	1565203	9.056	ppbv 99
35) Carbon Tetrachloride	7.14	117	2383281	8.547	ppbv 99
36) Benzene	7.01	78	2617279	9.738	ppbv 99
37) 1,2-Dichloroethane	6.42	62	1472299	8.314	ppbv 99
38) Trichloroethene	7.96	130	995932	9.117	ppbv 92
39) 1,2-Dichloropropane	7.74	63	873972	9.234	ppbv 95
40) 1,4-Dioxane	7.96	88	326913	9.046	ppbv 94
41) Tetrahydrofuran	6.15	42	898783	9.240	ppbv 99
42) Bromodichloromethane	7.92	83	2098964	8.937	ppbv 96
43) Methyl Methacrylate	8.14	69	934773	9.936	ppbv 99

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 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue Jan 29 06:21:00 2019
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.99	57	3946129	9.298	ppbv	100
45) t-1,3-Dichloropropene	9.42	75	1271233	11.020	ppbv	100
46) cis-1,3-Dichloropropene	8.84	75	1468187	10.647	ppbv	99
47) 1,1,2-Trichloroethane	9.62	97	899774	8.200	ppbv	96
48) Dibromochloromethane	10.45	129	1660810	8.577	ppbv	100
49) Bromoform	13.21	173	1399200	8.648	ppbv	100
50) 4-Methyl-2-Pentanone	8.87	43	2239778	9.709	ppbv	100
51) 2-Hexanone	10.27	43	1512549	9.407	ppbv #	100
52) Tetrachloroethene	11.37	164	779297	8.719	ppbv	98
53) Toluene	9.95	91	2506760	9.329	ppbv	99
54) 1,2-Dibromoethane	10.76	107	1383307	8.778	ppbv	98
56) 1,1,1,2-Tetrachloroethane	12.28	131	1187683	7.391	ppbv	97
57) Chlorobenzene	12.30	112	1938622	7.446	ppbv	98
58) Ethyl Benzene	12.87	91	3345029	8.711	ppbv	99
59) m/p-Xylene	13.15	91	2730064	7.676	ppbv #	100
60) o-Xylene	13.85	91	2786548	7.561	ppbv	99
61) Styrene	13.69	104	1034877	4.398	ppbv #	27
62) Isopropylbenzene	14.82	105	3983018	7.628	ppbv	99
63) 1,1,2,2-Tetrachloroethane	13.84	83	1921915	6.548	ppbv	100
64) n-propylbenzene	15.73	120	1019341	8.044	ppbv	99
65) tert-Butylbenzene	16.91	119	3536487	8.061	ppbv	99
66) Benzyl Chloride	17.16	91	2094723	8.870	ppbv	100
67) sec-Butylbenzene	17.46	105	4946861	7.856	ppbv	100
69) p-Isopropyltoluene	17.82	119	4075198	7.580	ppbv	100
70) n-Butylbenzene	18.71	91	4044363	8.282	ppbv	100
71) 2-Chlorotoluene	15.62	91	2914381	8.185	ppbv	100
72) 4-Ethyltoluene	16.00	105	3246858	8.373	ppbv	100
73) 1,3,5-Trimethylbenzene	16.16	105	3074076	8.105	ppbv	98
74) 1,2,4-Trimethylbenzene	16.93	105	3192874	7.949	ppbv	96
75) 1,3-Dichlorobenzene	17.17	146	1784790	7.357	ppbv	99
76) 1,4-Dichlorobenzene	17.31	146	1749060	7.822	ppbv	100
77) 1,2-Dichlorobenzene	17.99	146	1718266	7.046	ppbv	99
78) Hexachloro-1,3-Butadiene	23.54	225	846684	5.927	ppbv	100
79) Naphthalene	22.42	128	2537181	10.267	ppbv	99
80) Naphthalene,2-methyl-	25.12	142	744851	12.073	ppbv	100
81) 1,2,4-Trichlorobenzene	22.14	180	1219373	9.683	ppbv	100

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

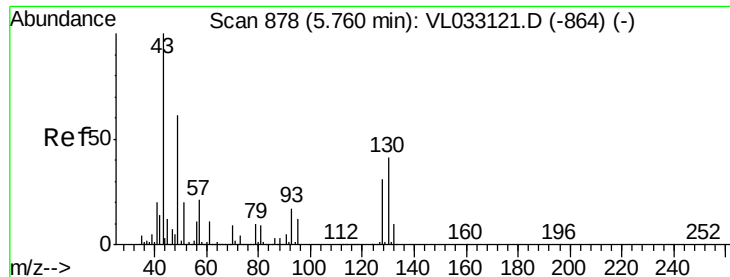
Abundance

TIC: VL033125.D

Time-->

Chemical compounds identified (from left to right):

- Dichlorodifluoromethane, T
- Dichlorotetrafluoroethane, T
- 1,3-Butadiene, T
- Isopropyl Alcohol, T
- Trichlorofluoromethane, T
- 1,1,2-Trichlorotrifluoroethane, T
- Carbon Disulfide, T
- 1,1,1-Trichloroethane, T
- trans-1,2-Dichloroethane, T
- 1,1-Dichloroethane, T
- cis-1,2-Dichloroethane, T
- Tetrahydrofuran, T
- 1,2-Dichloroethane, T
- 1,1,1-Trichloroethane, T
- Benzene, T
- Cyclohexane, T
- 1,2-Dichlorodifluoroethane, T
- Methyl Methacrylate, T
- Heptane, T
- cis-1,3-Dichloropropene, T
- t-1,3-Dichloropropene, T
- 1,1,2-Trichloroethane, T
- Toluene, T
- 2-Hexanone, T
- Dibromochloromethane, T
- 1,2-Dibromoethane, T
- Tetrachloroethene, T
- Chlorobenzene-d5, I
- Chlorobenzene-d5, I
- Ethyl Benzene, T
- m/p-Xylene, T
- Styrene, I
- 1-Bromo-4-Fluorobenzene, S
- Isopropylbenzene, T
- 2-Chlorotoluene, T
- 4-Ethyltoluene, T
- 1,3,5-Trimethylbenzene, T
- sec-Butylbenzene, T
- p-Isopropyltoluene, T
- n-Butylbenzene, T
- 1,2,4-Trichlorobenzene, T
- Naphthalene, T
- Hexachloro-1,3-Butadiene, T
- Naphthalene 2-methyl-, T



#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.76 min Scan# 879

Delta R.T. -0.00 min

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Instrument :

MSVOA_L

ClientSampleId :

VL0128ABS01

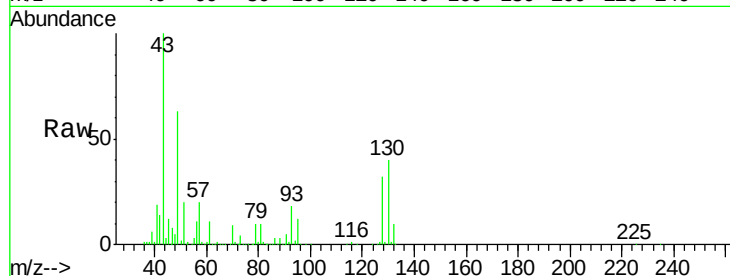
Tgt Ion: 49 Resp: 1186912

Ion Ratio Lower Upper

49 100

128 52.6 25.9 77.7

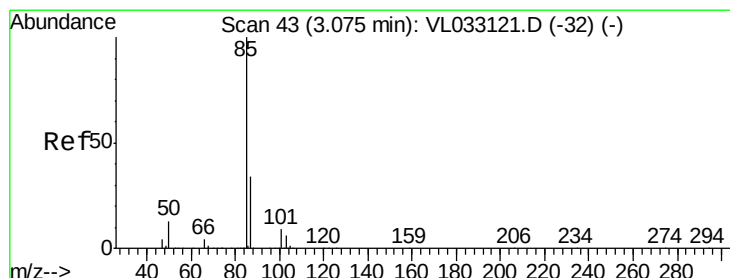
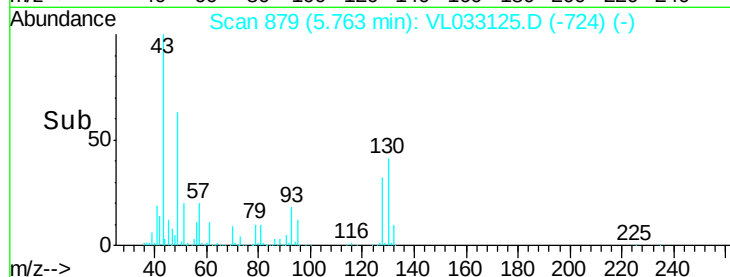
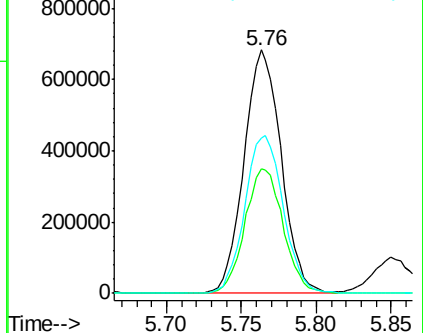
130 67.2 32.9 98.7



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: 8.499 ppbv

RT: 3.08 min Scan# 44

Delta R.T. 0.00 min

Lab File: VL033125.D

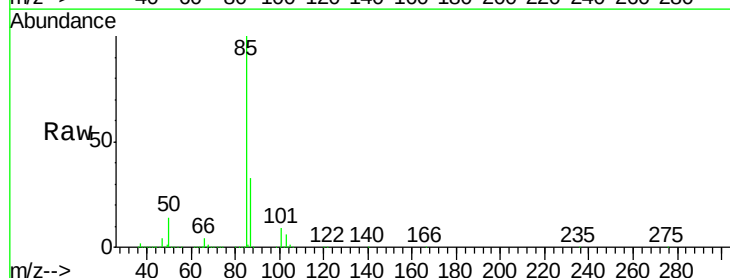
Acq: 29 Jan 2019 2:29

Tgt Ion: 85 Resp: 2388127

Ion Ratio Lower Upper

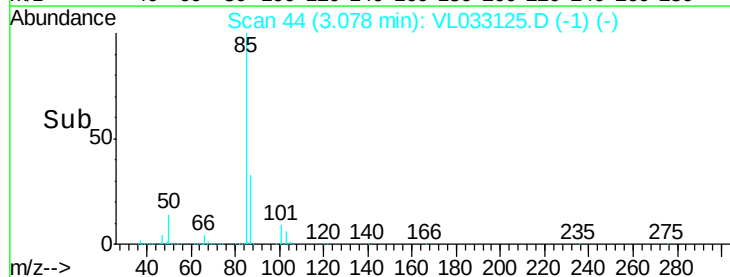
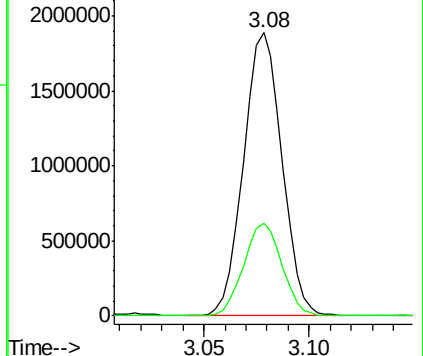
85 100

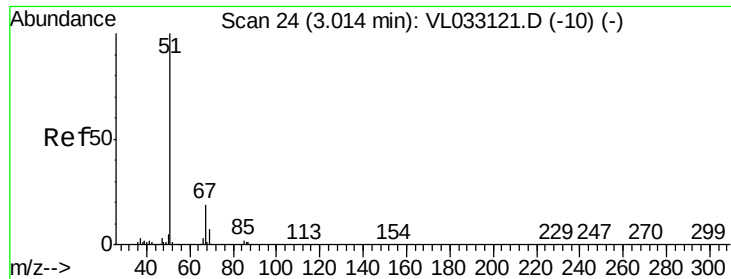
87 32.9 26.4 39.6



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 8.261 ppbv

RT: 3.01 min Scan# 24

Delta R.T. -0.00 min

Lab File: VL033125.D

Acq: 29 Jan 2019 2:29

Instrument :

MSVOA_L

ClientSampleId :

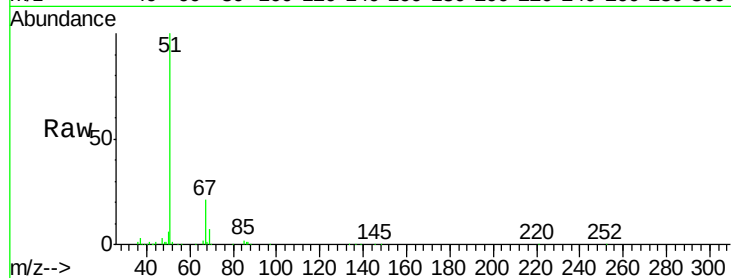
VL0128ABS01

Tgt Ion: 51 Resp: 1300797

Ion Ratio Lower Upper

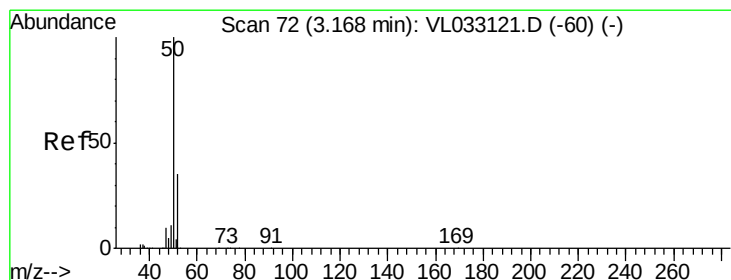
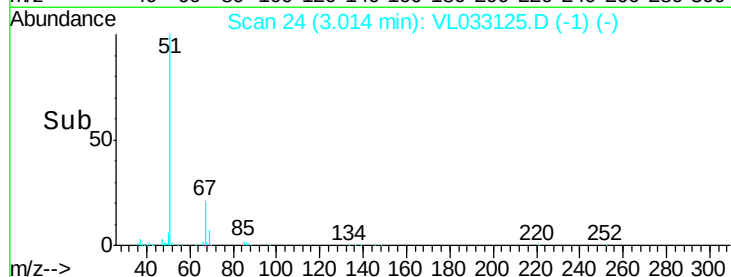
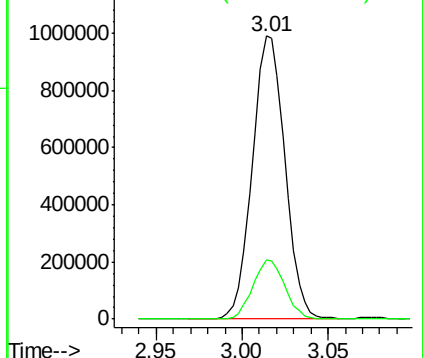
51 100

67 20.7 16.2 24.2



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 8.275 ppbv

RT: 3.17 min Scan# 73

Delta R.T. -0.00 min

Lab File: VL033125.D

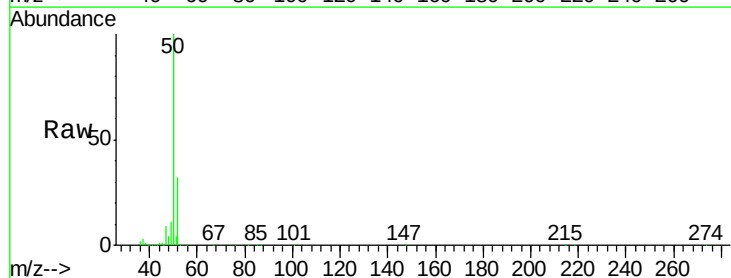
Acq: 29 Jan 2019 2:29

Tgt Ion: 50 Resp: 707920

Ion Ratio Lower Upper

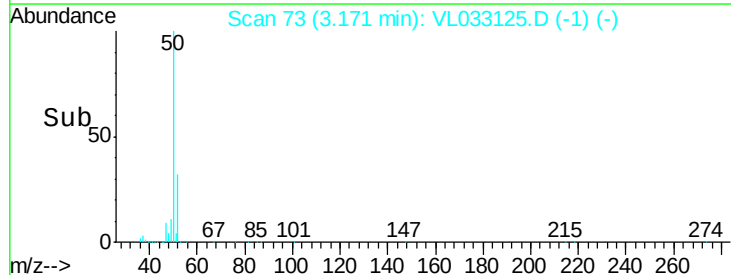
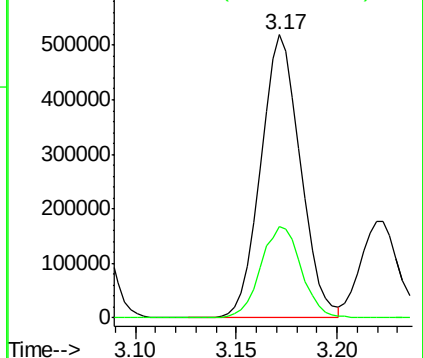
50 100

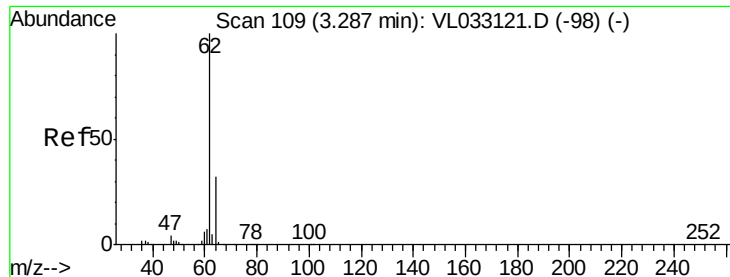
52 32.3 27.0 40.4



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#5

Vinyl Chloride

Concen: 7.572 ppbv

RT: 3.29 min Scan# 111

Delta R.T. 0.00 min

Lab File: VL033125.D

Acq: 29 Jan 2019 2:29

Instrument :

MSVOA_L

ClientSampleId :

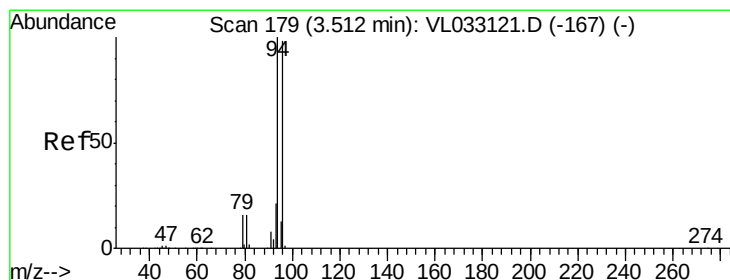
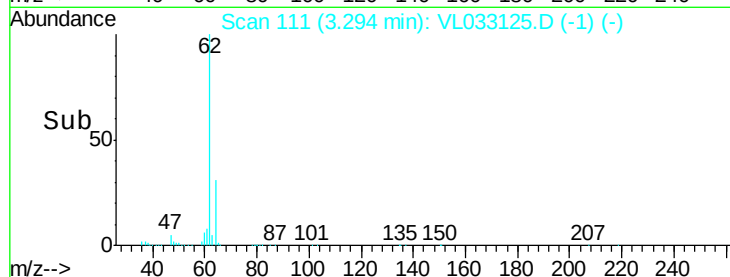
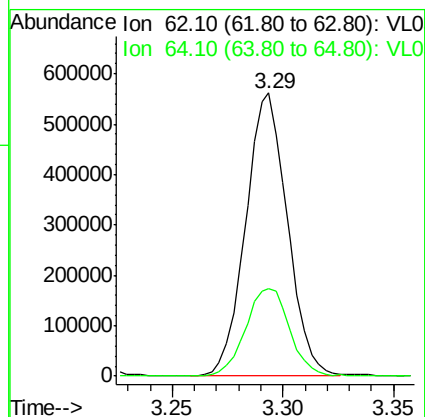
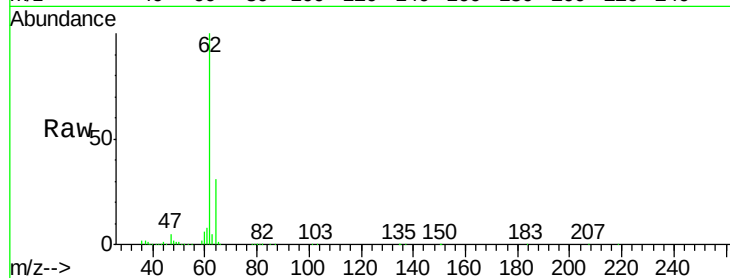
VL0128ABS01

Tgt Ion: 62 Resp: 739226

Ion Ratio Lower Upper

62 100

64 31.1 25.7 38.5



#6

Bromomethane

Concen: 8.527 ppbv

RT: 3.52 min Scan# 180

Delta R.T. 0.00 min

Lab File: VL033125.D

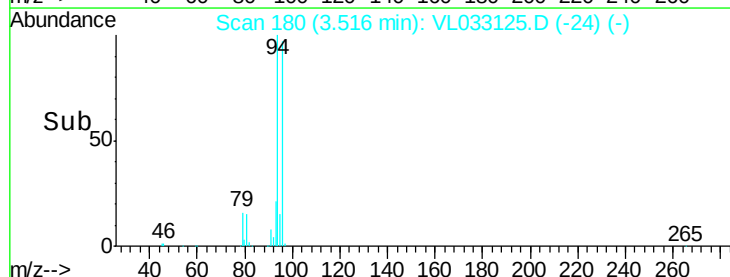
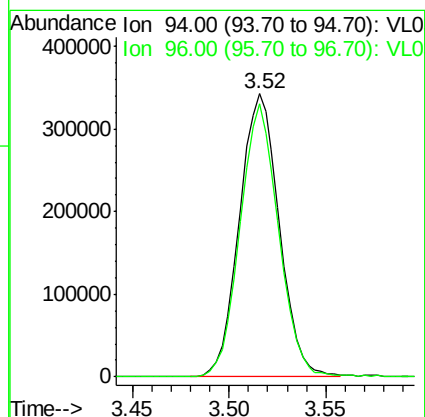
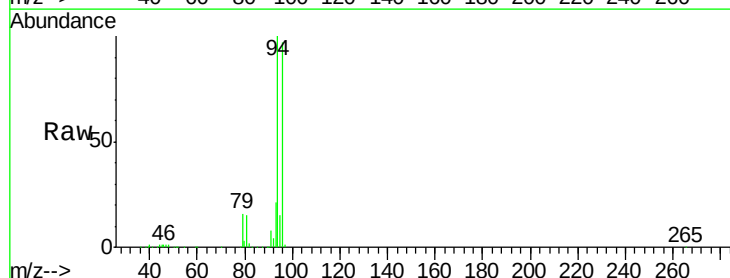
Acq: 29 Jan 2019 2:29

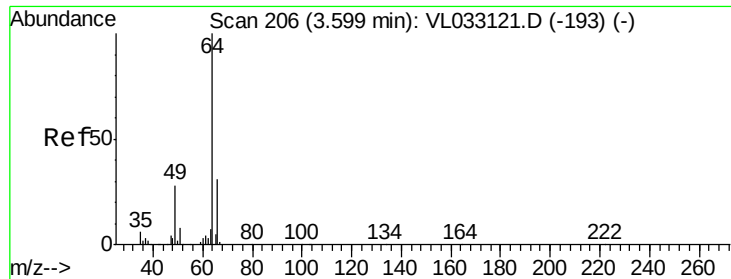
Tgt Ion: 94 Resp: 490788

Ion Ratio Lower Upper

94 100

96 96.5 75.4 113.2





#7

Chloroethane

Concen: 8.508 ppbv

RT: 3.60 min Scan# 207

Delta R.T. 0.00 min

Lab File: VL033125.D

Acq: 29 Jan 2019 2:29

Instrument :

MSVOA_L

ClientSampleId :

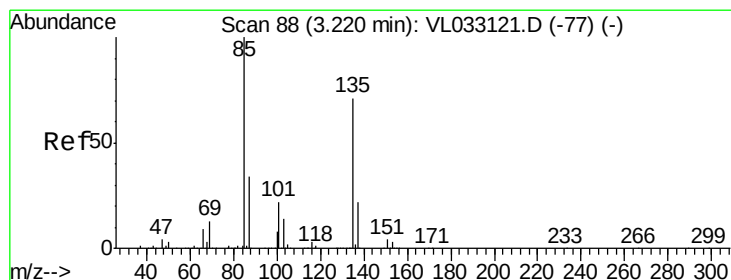
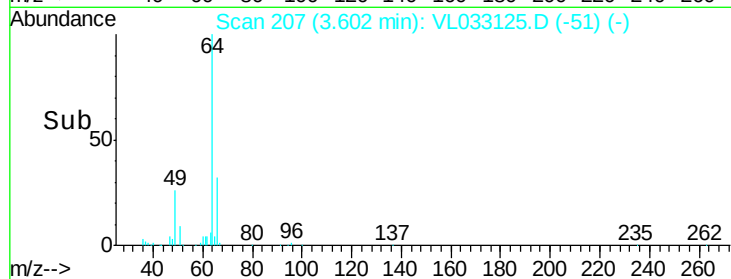
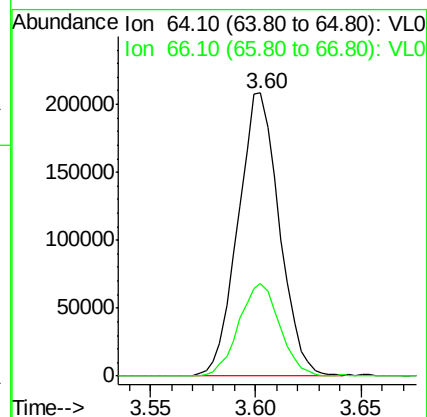
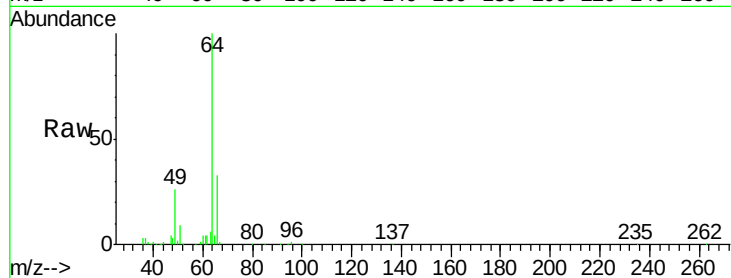
VL0128ABS01

Tgt Ion: 64 Resp: 283475

Ion Ratio Lower Upper

64 100

66 32.5 24.0 36.0



#8

Dichlorotetrafluoroethane

Concen: 8.449 ppbv

RT: 3.22 min Scan# 88

Delta R.T. -0.00 min

Lab File: VL033125.D

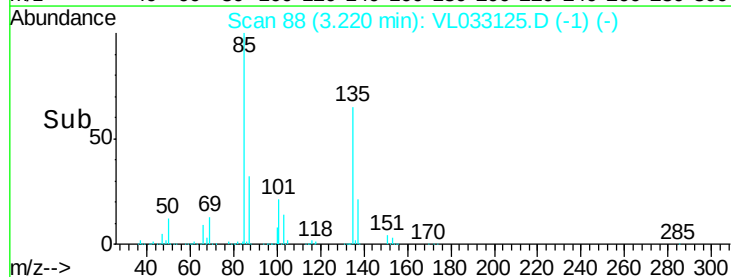
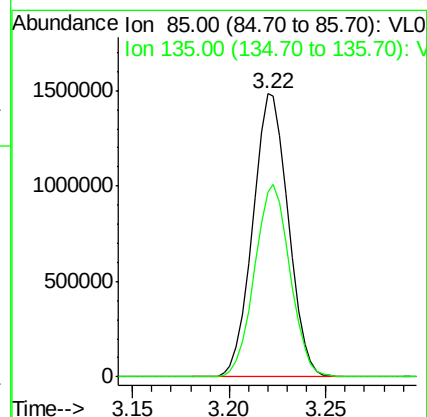
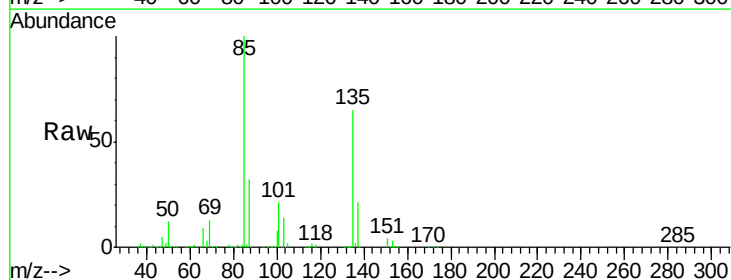
Acq: 29 Jan 2019 2:29

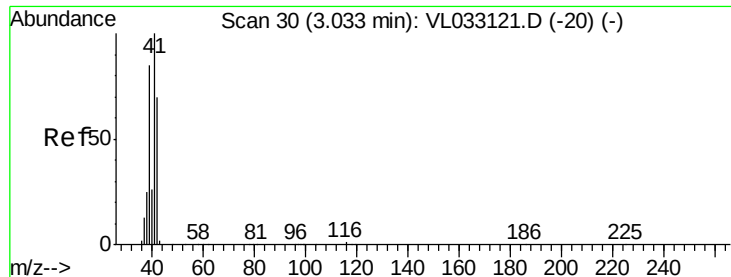
Tgt Ion: 85 Resp: 1899997

Ion Ratio Lower Upper

85 100

135 68.0 54.8 82.2





#9

Propene

Concen: 8.721 ppbv

RT: 3.04 min Scan# 31

Delta R.T. -0.00 min

Lab File: VL033125.D

Acq: 29 Jan 2019 2:29

Instrument :

MSVOA_L

ClientSampleId :

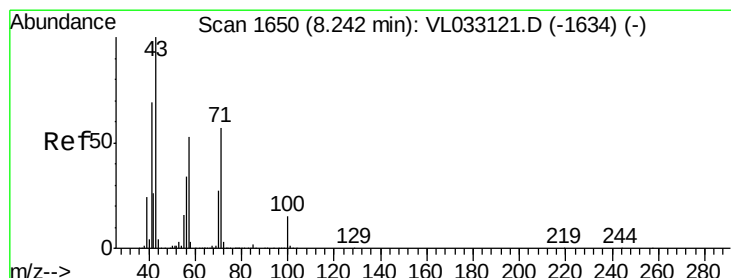
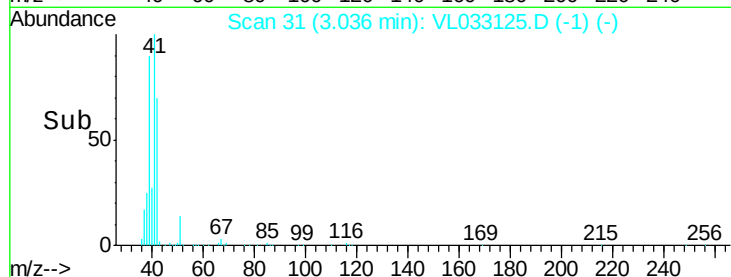
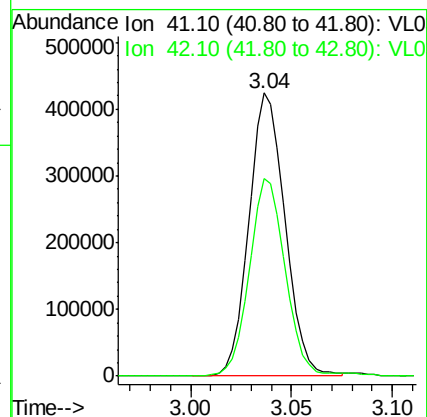
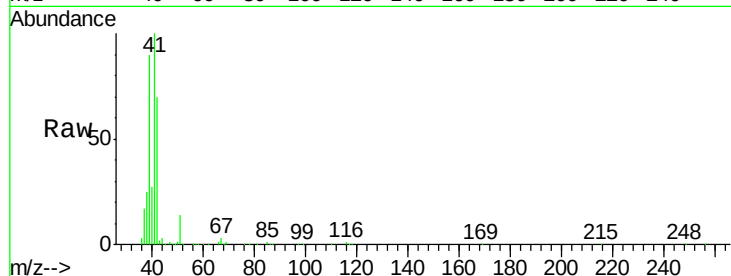
VL0128ABS01

Tgt Ion: 41 Resp: 534852

Ion Ratio Lower Upper

41 100

42 69.9 54.6 82.0



#10

Heptane

Concen: 9.462 ppbv

RT: 8.25 min Scan# 1651

Delta R.T. -0.00 min

Lab File: VL033125.D

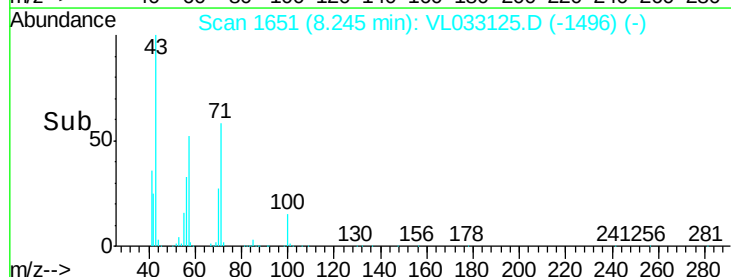
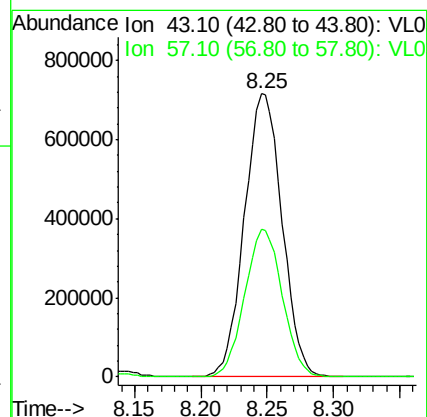
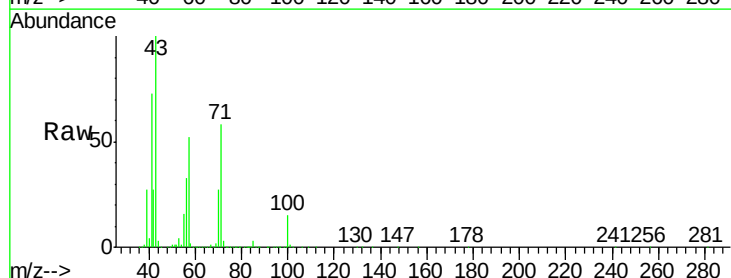
Acq: 29 Jan 2019 2:29

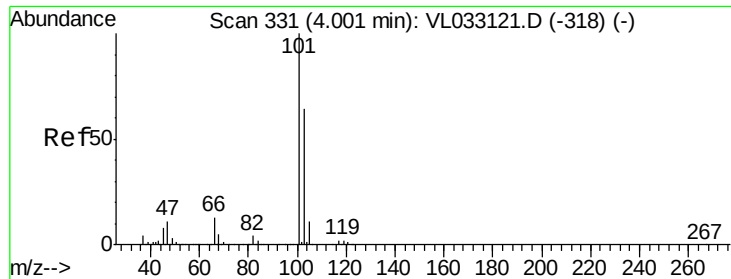
Tgt Ion: 43 Resp: 1407995

Ion Ratio Lower Upper

43 100

57 52.2 42.2 63.2

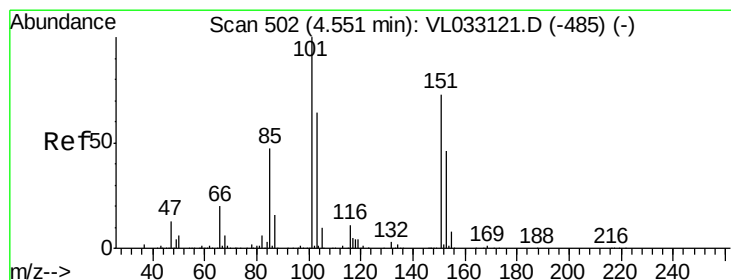
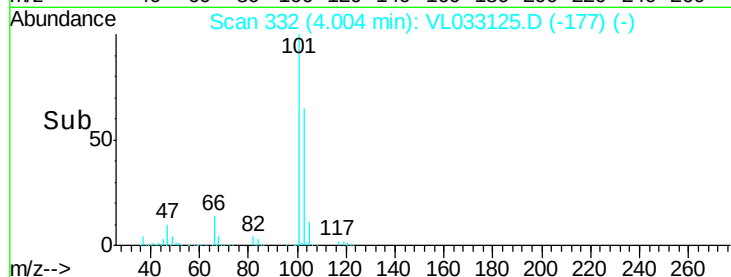
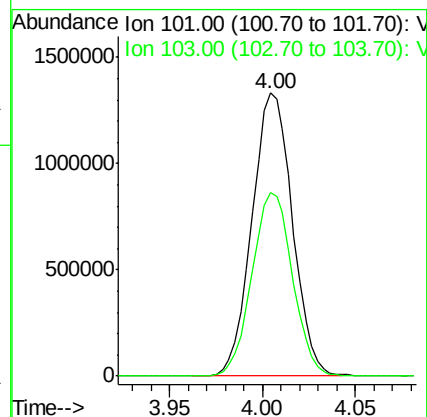
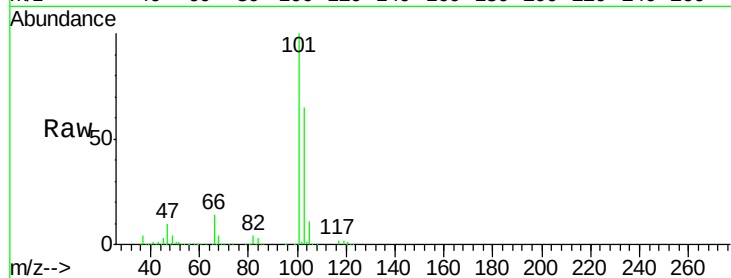




#11
 Trichlorofluoromethane
 Concen: 8.470 ppbv
 RT: 4.00 min Scan# 332
 Delta R.T. -0.00 min
 Lab File: VL033125.D
 Acq: 29 Jan 2019 2:29

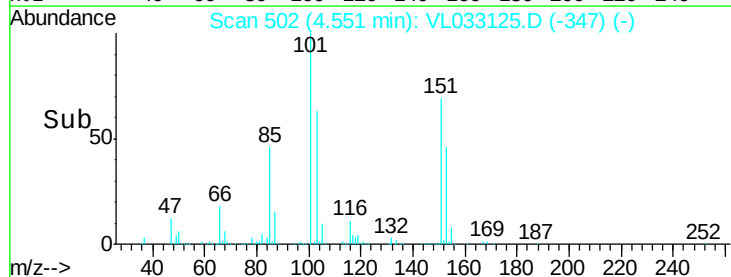
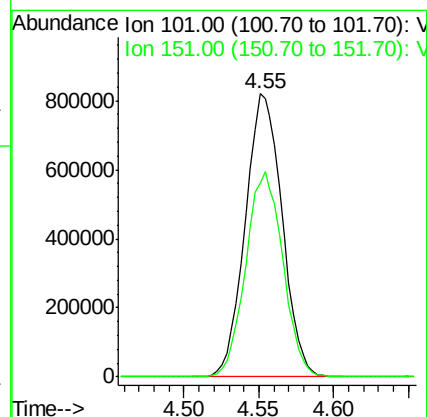
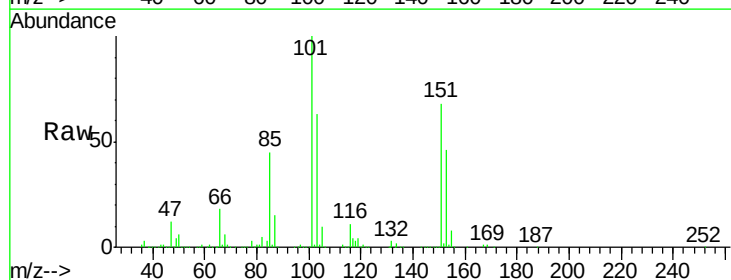
Instrument :
 MSVOA_L
 ClientSampleId :
 VL0128ABS01

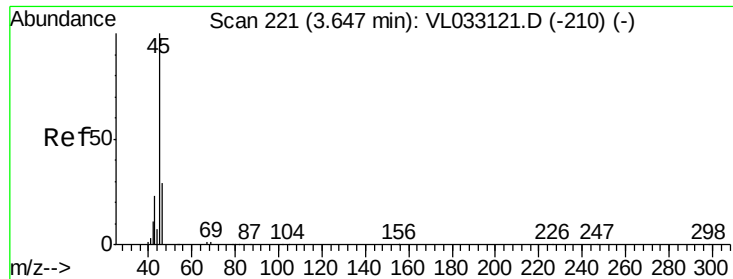
Tgt Ion:101 Resp: 2028754
 Ion Ratio Lower Upper
 101 100
 103 64.6 49.4 74.0



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 8.464 ppbv
 RT: 4.55 min Scan# 502
 Delta R.T. -0.00 min
 Lab File: VL033125.D
 Acq: 29 Jan 2019 2:29

Tgt Ion:101 Resp: 1406636
 Ion Ratio Lower Upper
 101 100
 151 73.0 57.9 86.9





#13

Ethanol

Concen: 6.473 ppbv

RT: 3.65 min Scan# 223

Delta R.T. 0.01 min

Lab File: VL033125.D

Acq: 29 Jan 2019 2:29

Instrument :

MSVOA_L

ClientSampleId :

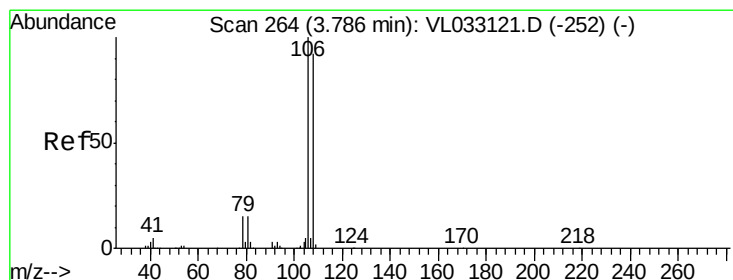
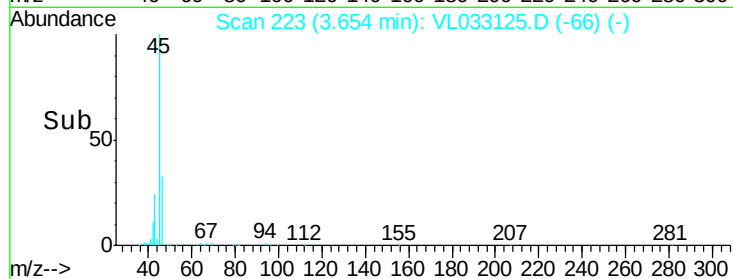
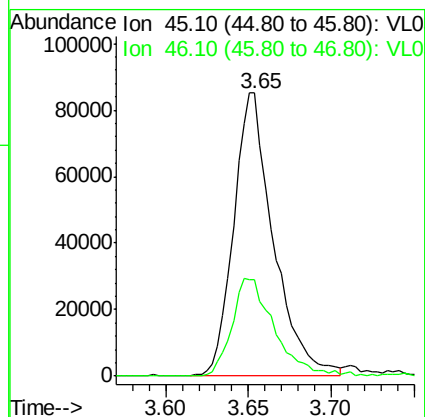
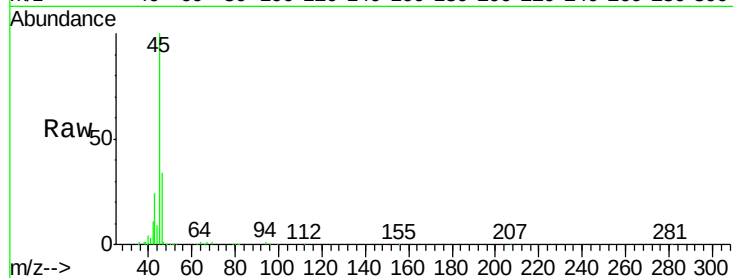
VL0128ABS01

Tgt Ion: 45 Resp: 142445

Ion Ratio Lower Upper

45 100

46 37.1 15.0 60.2



#14

Bromoethene

Concen: 8.589 ppbv

RT: 3.79 min Scan# 265

Delta R.T. 0.00 min

Lab File: VL033125.D

Acq: 29 Jan 2019 2:29

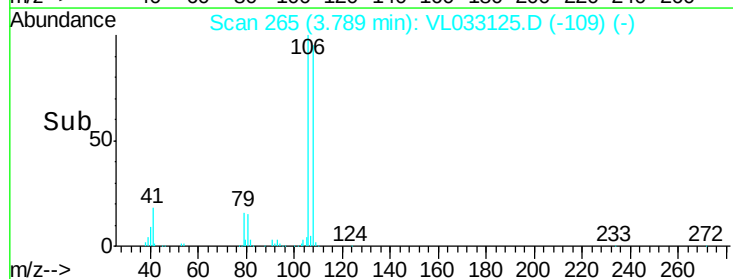
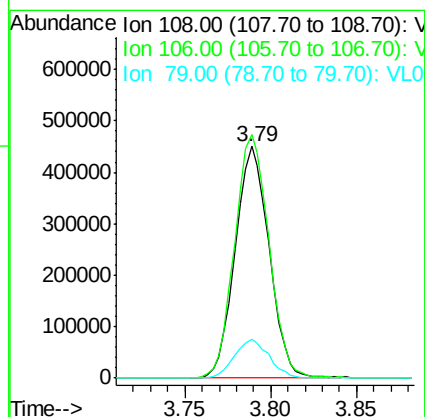
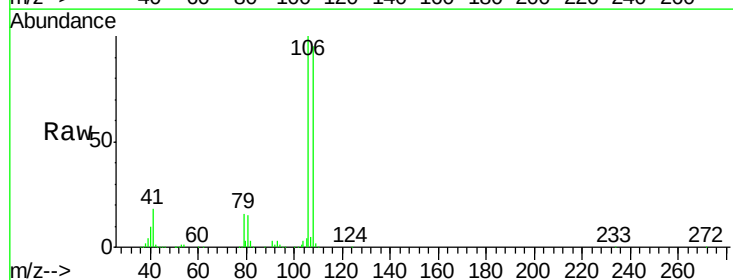
Tgt Ion: 108 Resp: 618245

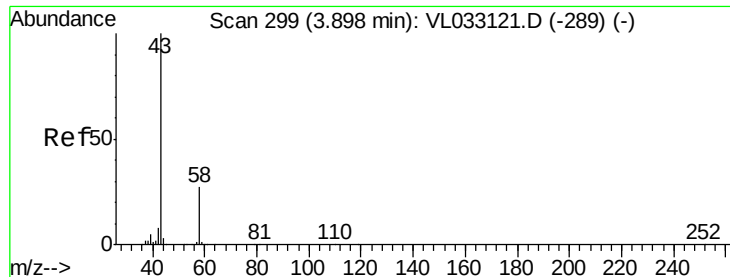
Ion Ratio Lower Upper

108 100

106 106.9 85.5 128.3

79 17.4 13.8 20.6





#15

Acetone

Concen: 7.980 ppbv

RT: 3.90 min Scan# 300

Delta R.T. 0.00 min

Lab File: VL033125.D

Acq: 29 Jan 2019 2:29

Instrument :

MSVOA_L

ClientSampleId :

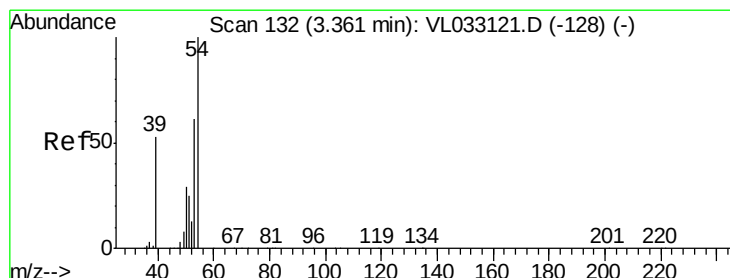
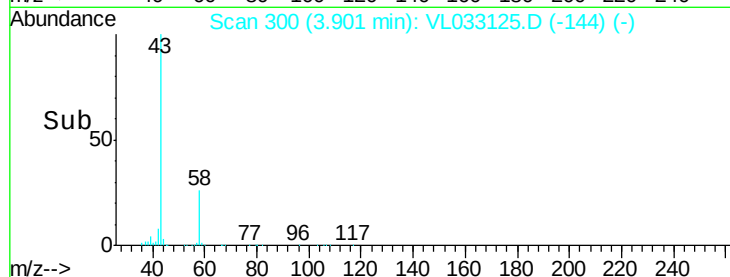
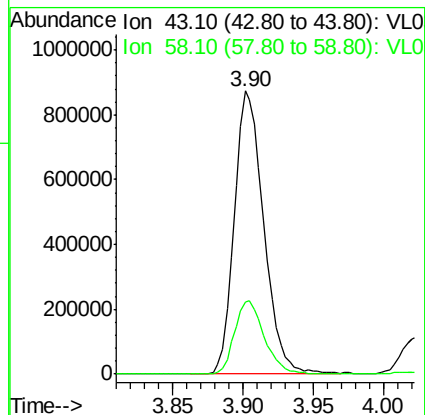
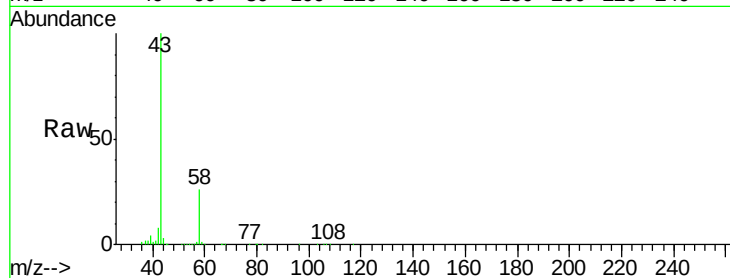
VL0128ABS01

Tgt Ion: 43 Resp: 1279011

Ion Ratio Lower Upper

43 100

58 26.3 21.1 31.7



#16

1,3-Butadiene

Concen: 9.227 ppbv

RT: 3.36 min Scan# 133

Delta R.T. 0.00 min

Lab File: VL033125.D

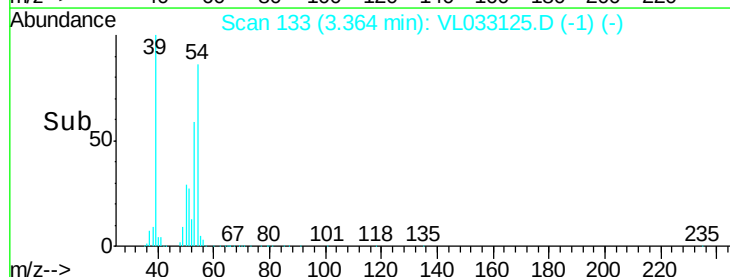
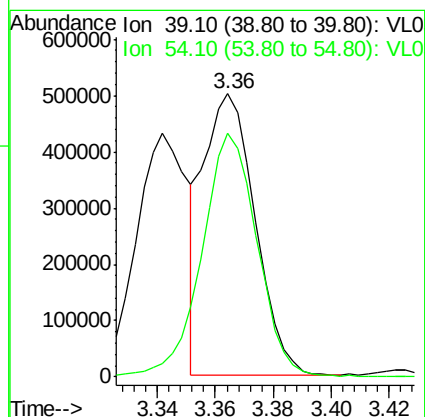
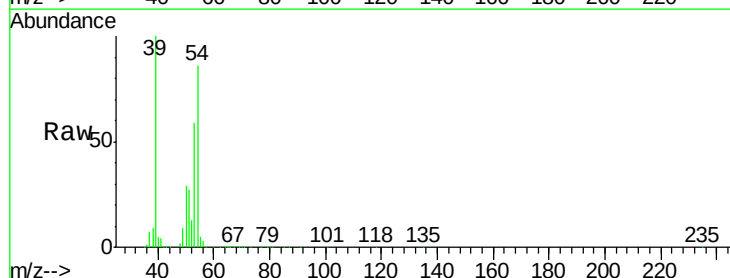
Acq: 29 Jan 2019 2:29

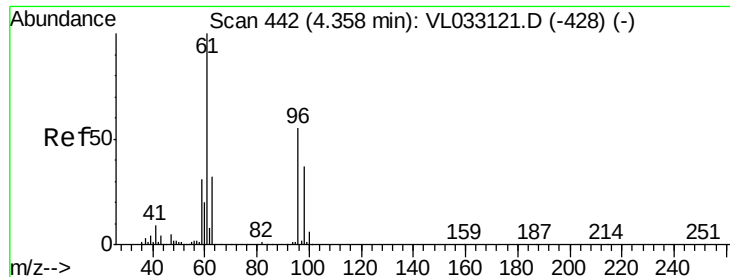
Tgt Ion: 39 Resp: 618144

Ion Ratio Lower Upper

39 100

54 93.2 80.0 120.0





#17

tert-Butyl alcohol

Concen: 8.559 ppbv

RT: 4.36 min Scan# 443

Delta R.T. 0.01 min

Lab File: VL033125.D

Acq: 29 Jan 2019 2:29

Instrument :

MSVOA_L

ClientSampleId :

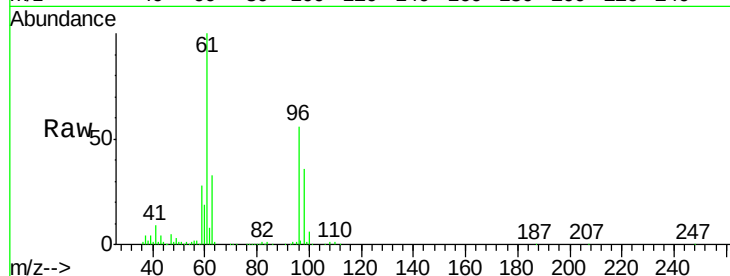
VL0128ABS01

Tgt Ion: 59 Resp: 304575

Ion Ratio Lower Upper

59 100

57 9.7 7.4 11.2



Abundance Ion 59.10 (58.80 to 59.80): VL0

Ion 57.10 (56.80 to 57.80): VL0

4.36

150000

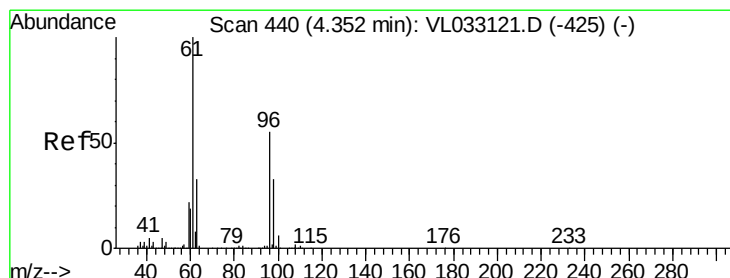
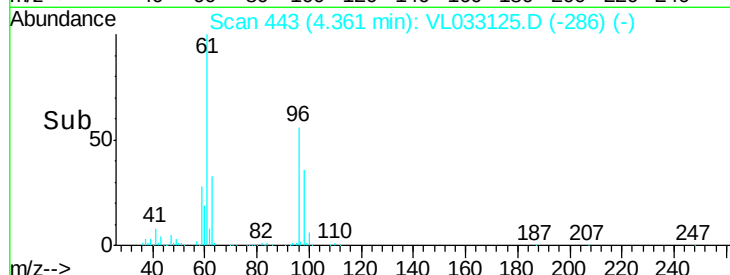
100000

50000

0

Time-->

4.30 4.35 4.40 4.45



#18

1,1-Dichloroethene

Concen: 8.746 ppbv

RT: 4.35 min Scan# 441

Delta R.T. 0.00 min

Lab File: VL033125.D

Acq: 29 Jan 2019 2:29

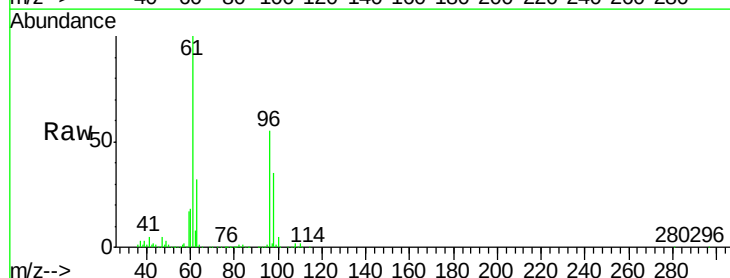
Tgt Ion: 96 Resp: 645186

Ion Ratio Lower Upper

96 100

61 182.4 142.6 213.8

98 64.5 51.4 77.0



Abundance Ion 96.00 (95.70 to 96.70): VL0

Ion 61.10 (60.80 to 61.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

1000000

800000

600000

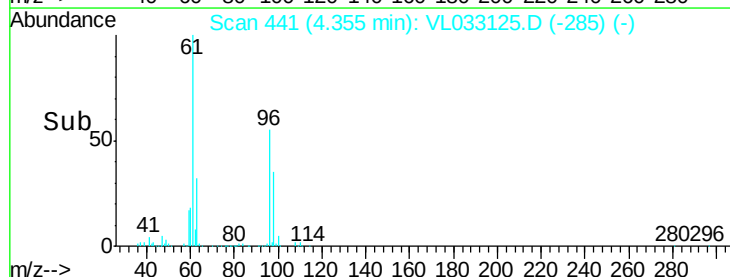
400000

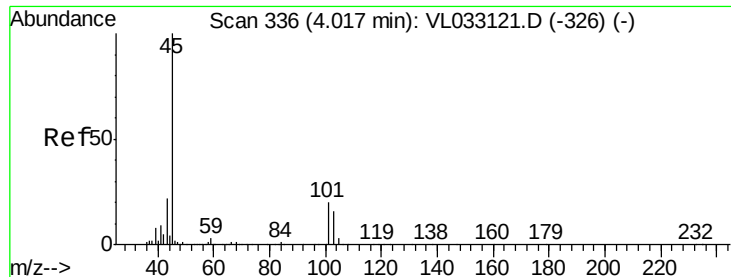
200000

0

Time-->

4.30 4.35 4.40





#19

Isopropyl Alcohol

Concen: 8.114 ppbv

RT: 4.03 min Scan# 339

Delta R.T. 0.01 min

Lab File: VL033125.D

Acq: 29 Jan 2019 2:29

Instrument :

MSVOA_L

ClientSampleId :

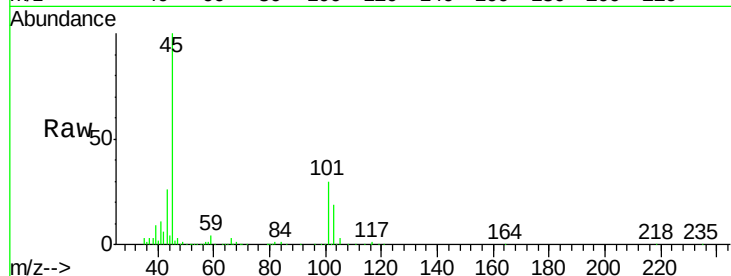
VL0128ABS01

Tgt Ion: 45 Resp: 885659

Ion Ratio Lower Upper

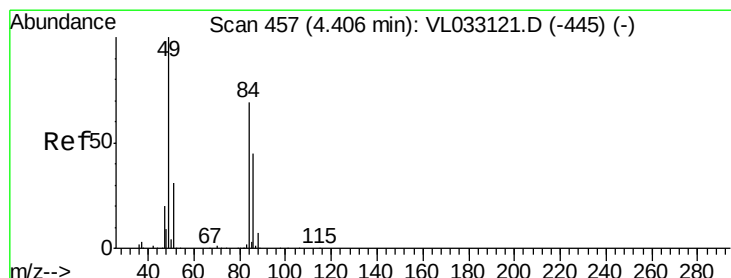
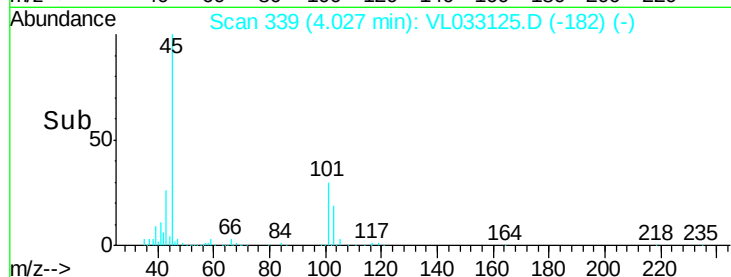
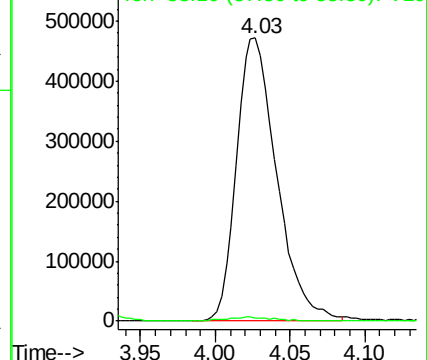
45 100

58 2.2 1.4 2.2#



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 58.10 (57.80 to 58.80): VL0



#20

Methylene Chloride

Concen: 7.601 ppbv

RT: 4.41 min Scan# 458

Delta R.T. -0.00 min

Lab File: VL033125.D

Acq: 29 Jan 2019 2:29

Tgt Ion: 84 Resp: 553157

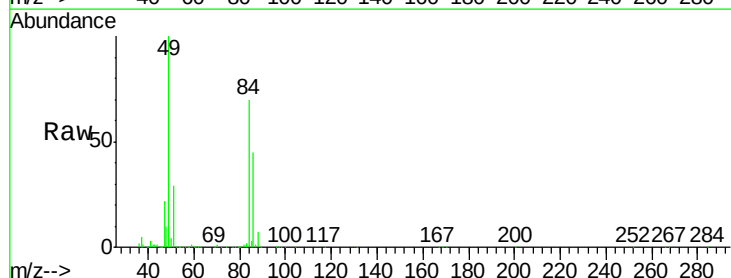
Ion Ratio Lower Upper

84 100

49 141.1 113.8 170.6

51 41.1 34.5 51.7

86 64.2 51.8 77.6

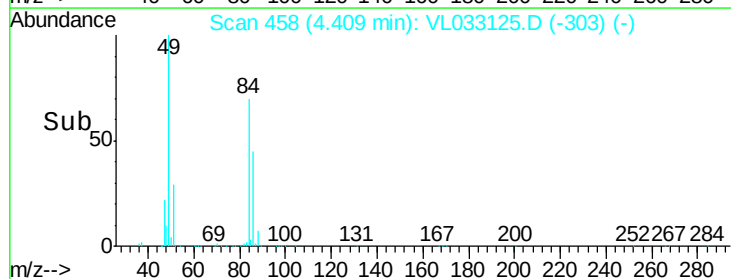
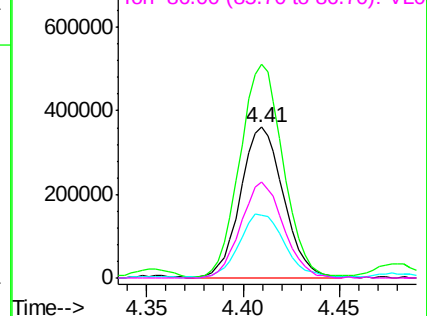


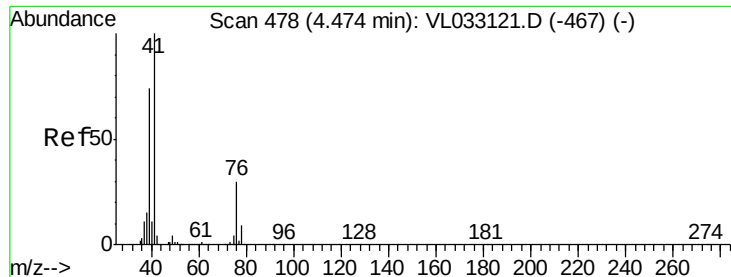
Abundance Ion 84.00 (83.70 to 84.70): VL0

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





#21

Allyl Chloride

Concen: 8.991 ppbv

RT: 4.48 min Scan# 480

Delta R.T. 0.00 min

Lab File: VL033125.D

Acq: 29 Jan 2019 2:29

Instrument :

MSVOA_L

ClientSampleId :

VL0128ABS01

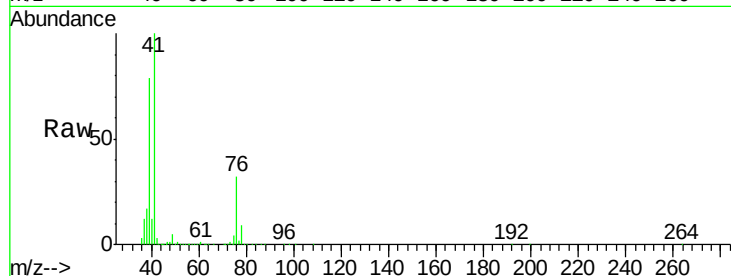
Tgt Ion: 41 Resp: 1004010

Ion Ratio Lower Upper

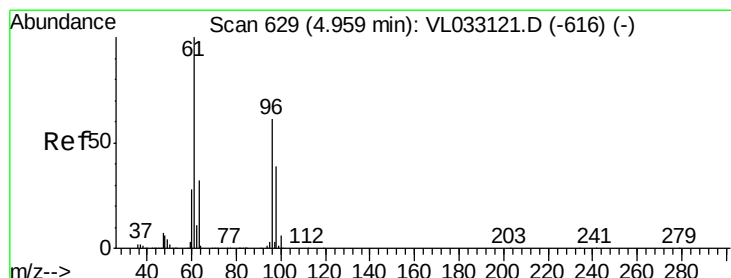
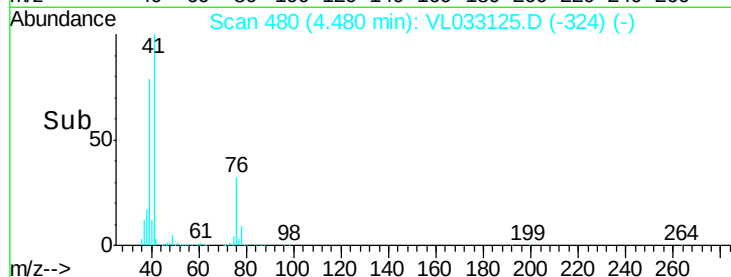
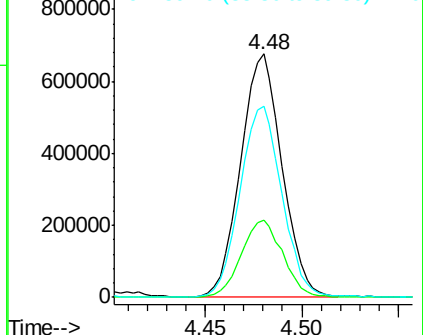
41 100

76 32.0 24.6 37.0

39 79.9 63.3 94.9



Abundance Ion 41.10 (40.80 to 41.80): VL0
Ion 76.10 (75.80 to 76.80): VL0
Ion 39.10 (38.80 to 39.80): VL0



#22

trans-1,2-Dichloroethene

Concen: 8.990 ppbv

RT: 4.97 min Scan# 631

Delta R.T. 0.01 min

Lab File: VL033125.D

Acq: 29 Jan 2019 2:29

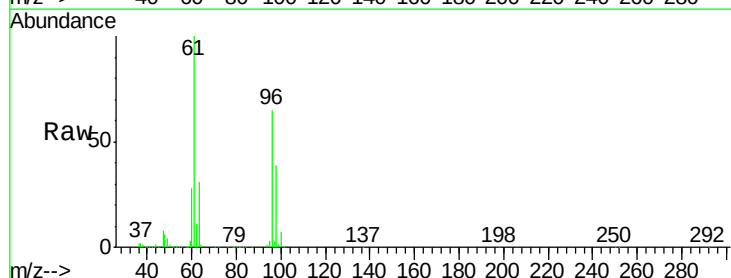
Tgt Ion: 96 Resp: 666171

Ion Ratio Lower Upper

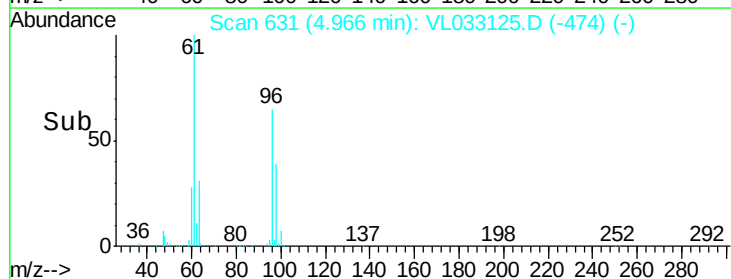
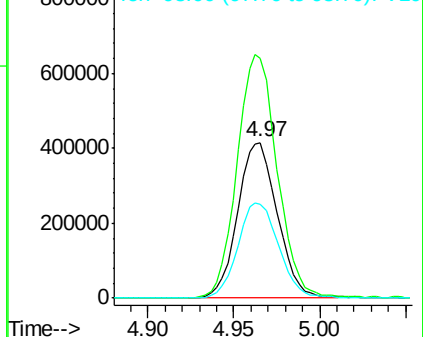
96 100

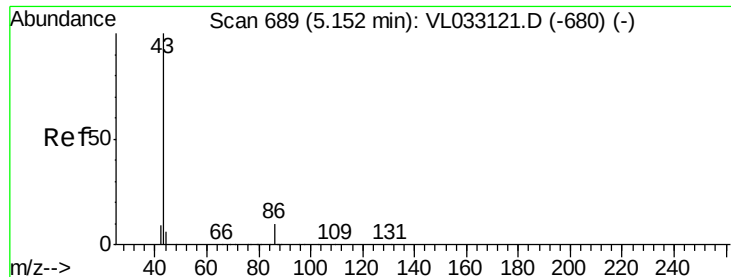
61 153.9 127.6 191.4

98 60.3 48.6 73.0



Abundance Ion 96.00 (95.70 to 96.70): VL0
Ion 61.10 (60.80 to 61.80): VL0
Ion 98.00 (97.70 to 98.70): VL0





#23

Vinyl Acetate

Concen: 9.058 ppbv

RT: 5.16 min Scan# 690

Delta R.T. 0.00 min

Lab File: VL033125.D

Acq: 29 Jan 2019 2:29

Instrument :

MSVOA_L

ClientSampleId :

VL0128ABS01

Tgt Ion: 43 Resp: 2052779

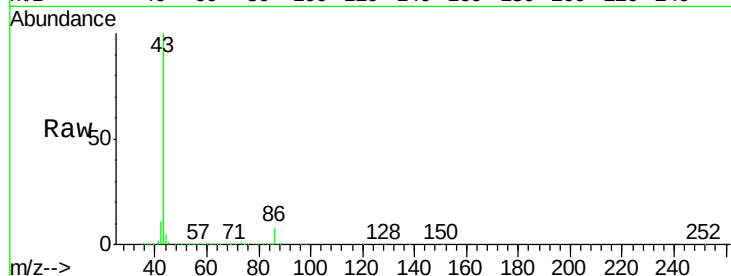
Ion	Ratio	Lower	Upper
43	100		
86	8.3	6.7	10.1
42	10.5	8.1	12.1
44	5.3	4.3	6.5

43 100

86 8.3 6.7 10.1

42 10.5 8.1 12.1

44 5.3 4.3 6.5

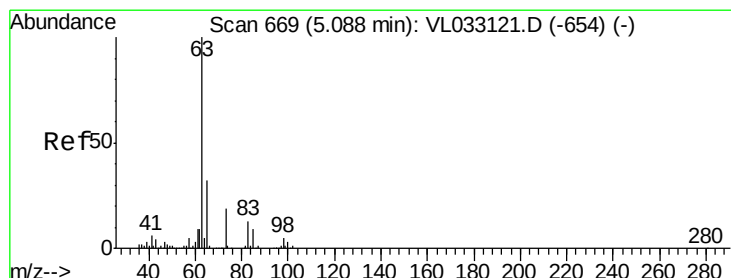
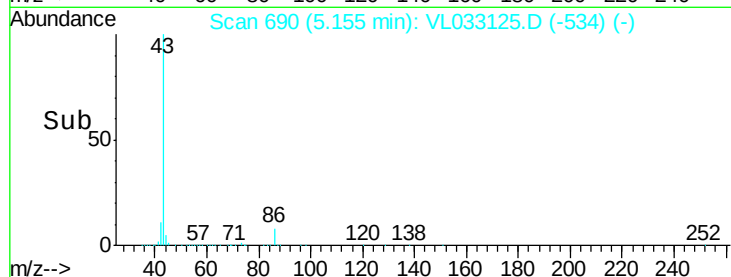
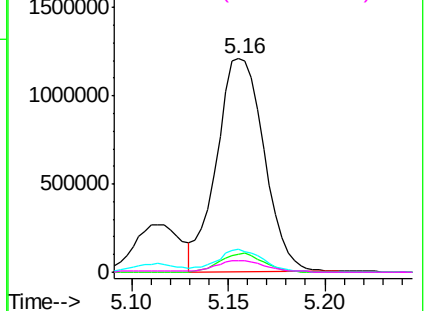


Abundance Ion 43.10 (42.80 to 43.80): VL0

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: 8.555 ppbv

RT: 5.09 min Scan# 670

Delta R.T. -0.00 min

Lab File: VL033125.D

Acq: 29 Jan 2019 2:29

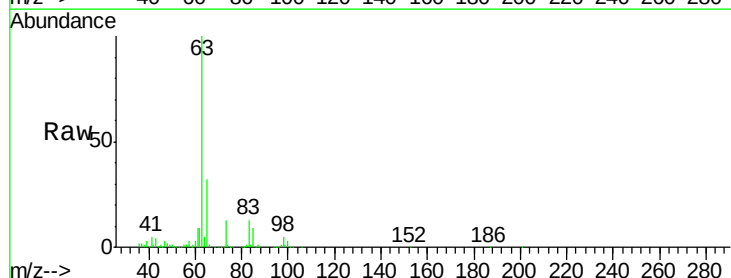
Tgt Ion: 63 Resp: 1570094

Ion	Ratio	Lower	Upper
63	100		
98	4.5	2.5	7.4
100	2.7	1.4	4.2

63 100

98 4.5 2.5 7.4

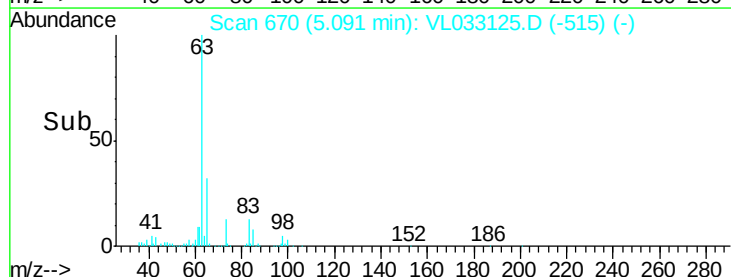
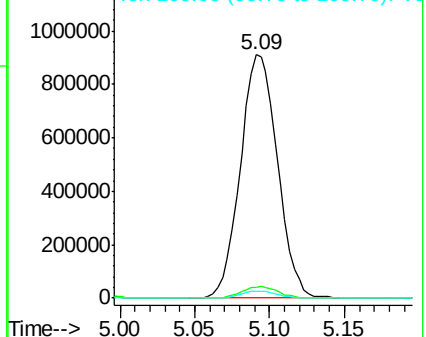
100 2.7 1.4 4.2

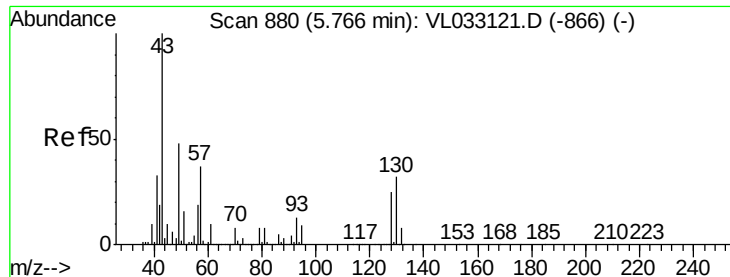


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

Ion 100.00 (99.70 to 100.70): VL0



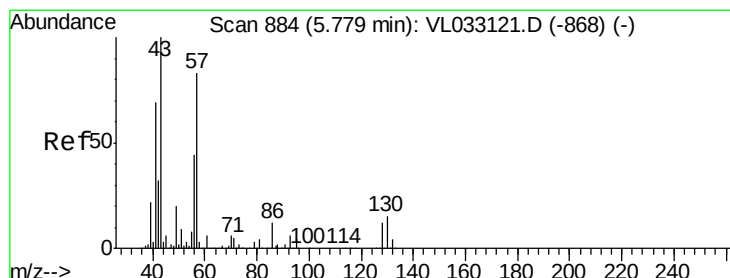
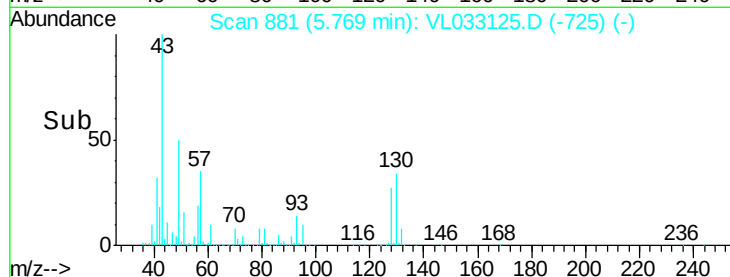
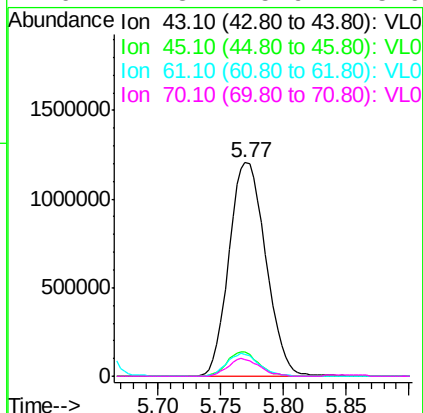
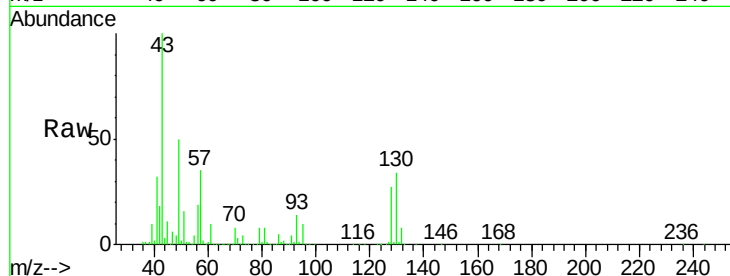


#25
Ethyl Acetate
Concen: 8.614 ppbv
RT: 5.77 min Scan# 881
Delta R.T. 0.00 min
Lab File: VL033125.D
Acq: 29 Jan 2019 2:29

Instrument :
MSVOA_L
ClientSampleId :
VL0128ABS01

Tgt Ion: 43 Resp: 2455822

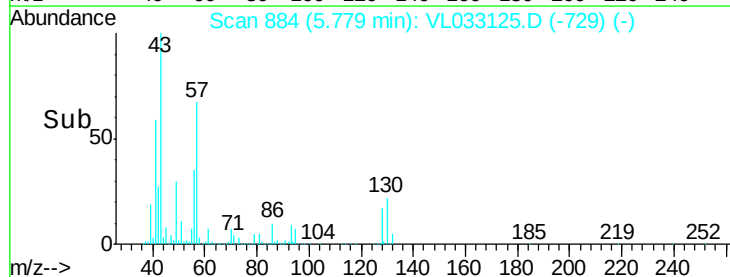
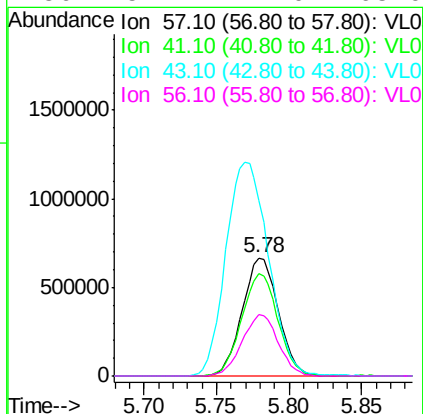
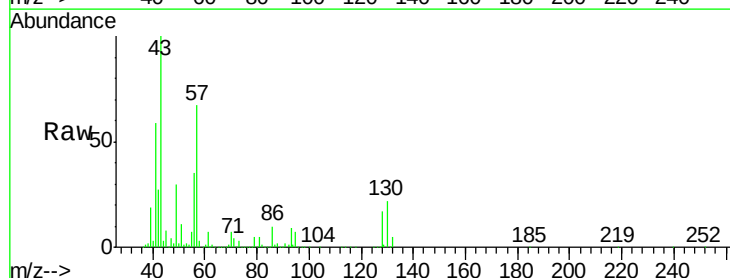
Ion	Ratio	Lower	Upper
43	100		
45	9.9	8.0	12.0
61	9.3	7.6	11.4
70	7.3	5.9	8.9

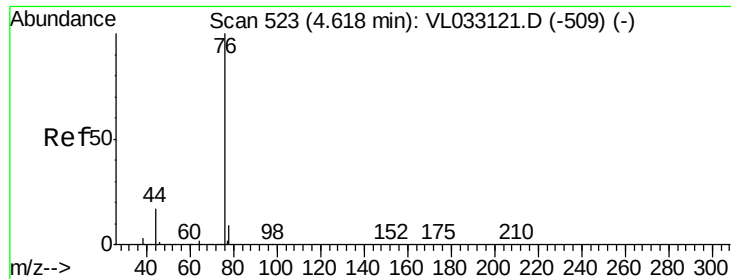


#26
Hexane
Concen: 8.418 ppbv
RT: 5.78 min Scan# 884
Delta R.T. -0.00 min
Lab File: VL033125.D
Acq: 29 Jan 2019 2:29

Tgt Ion: 57 Resp: 1151228

Ion	Ratio	Lower	Upper
57	100		
41	87.7	69.9	104.9
43	214.3	169.0	253.4
56	52.2	42.0	63.0





#27

Carbon Disulfide

Concen: 9.240 ppbv

RT: 4.62 min Scan# 524

Delta R.T. 0.00 min

Lab File: VL033125.D

Acq: 29 Jan 2019 2:29

Instrument :

MSVOA_L

ClientSampleId :

VL0128ABS01

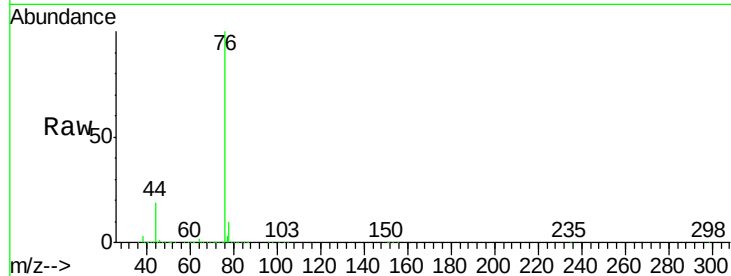
Tgt Ion: 76 Resp: 1649708

Ion Ratio Lower Upper

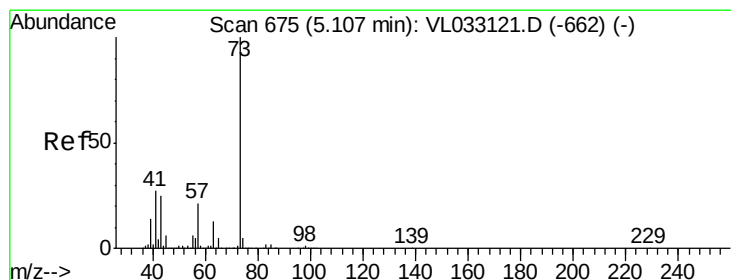
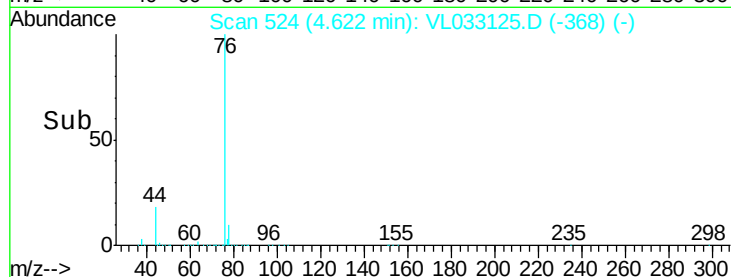
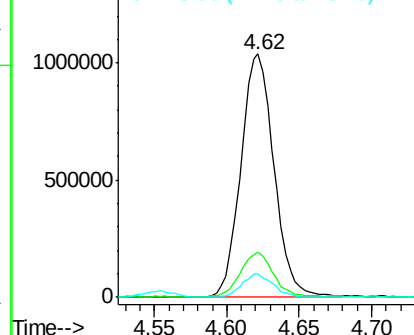
76 100

44 18.5 15.0 22.4

78 9.0 7.6 11.4



Abundance Ion 76.00 (75.70 to 76.70): VL0
Ion 44.10 (43.80 to 44.80): VL0
Ion 78.00 (77.70 to 78.70): VL0



#28

Methyl tert-Butyl Ether

Concen: 9.124 ppbv

RT: 5.11 min Scan# 677

Delta R.T. 0.00 min

Lab File: VL033125.D

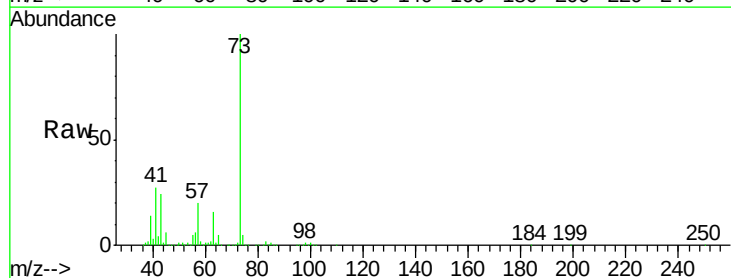
Acq: 29 Jan 2019 2:29

Tgt Ion: 73 Resp: 1957775

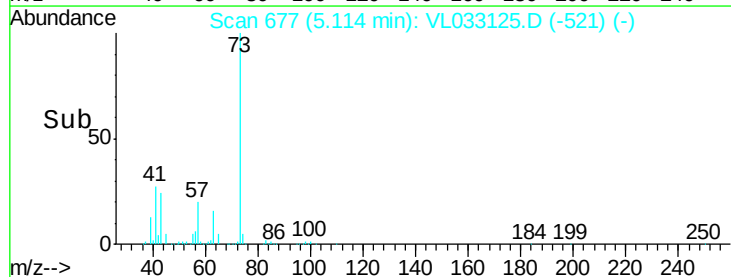
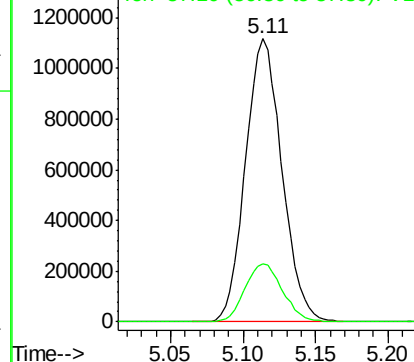
Ion Ratio Lower Upper

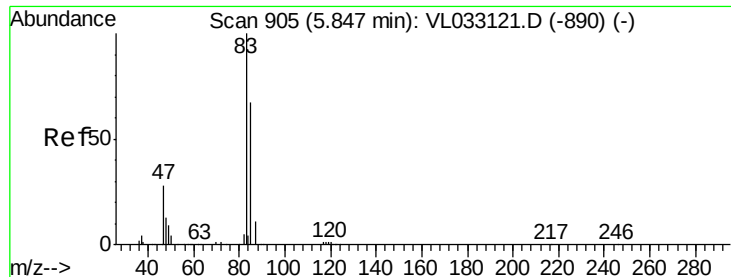
73 100

57 21.3 17.6 26.4



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

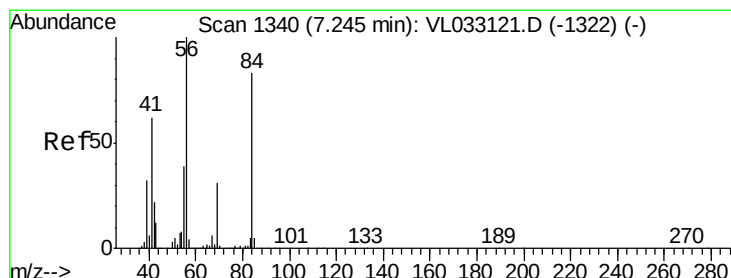
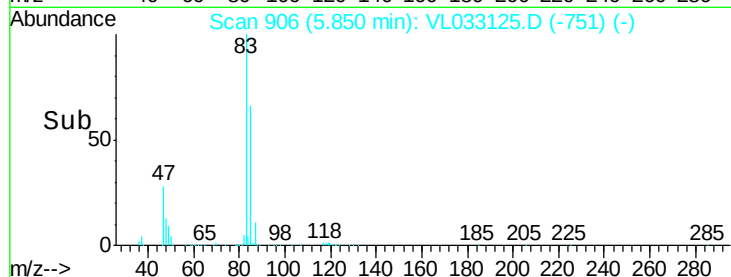
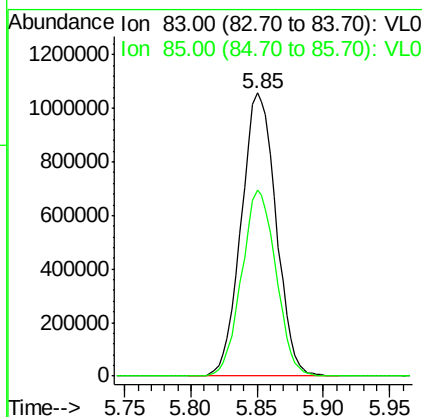
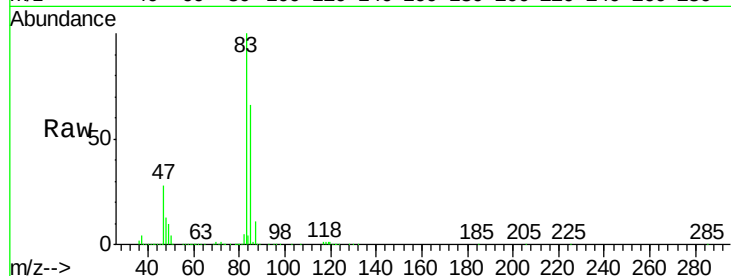




#29
Chloroform
Concen: 8.562 ppbv
RT: 5.85 min Scan# 906
Delta R.T. -0.00 min
Lab File: VL033125.D
Acq: 29 Jan 2019 2:29

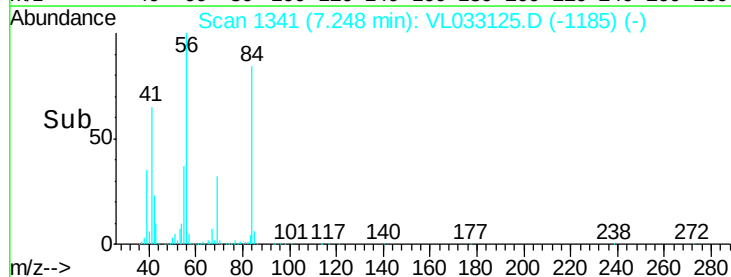
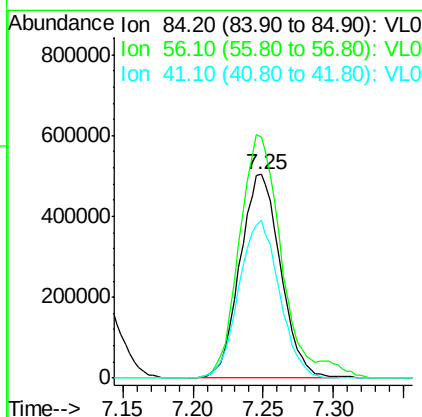
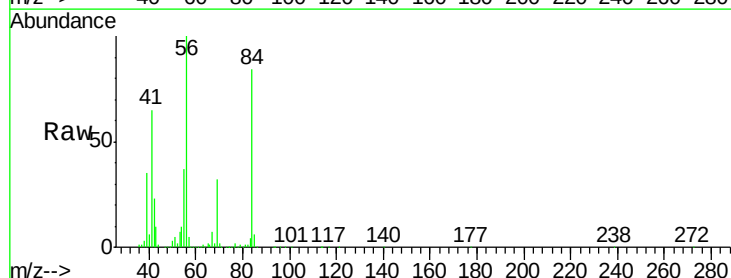
Instrument :
MSVOA_L
ClientSampleId :
VL0128ABS01

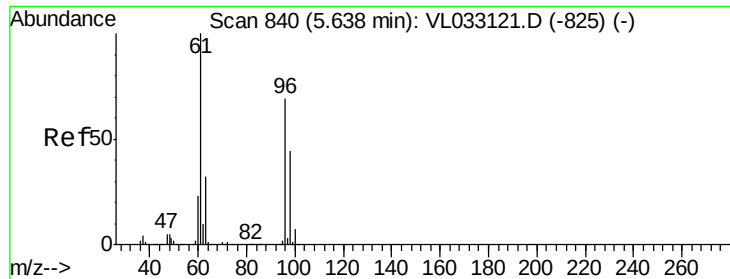
Tgt Ion: 83 Resp: 1929307
Ion Ratio Lower Upper
83 100
85 65.8 50.4 75.6



#30
Cyclohexane
Concen: 9.895 ppbv
RT: 7.25 min Scan# 1341
Delta R.T. 0.00 min
Lab File: VL033125.D
Acq: 29 Jan 2019 2:29

Tgt Ion: 84 Resp: 1016424
Ion Ratio Lower Upper
84 100
56 125.2 102.4 153.6
41 77.3 62.7 94.1



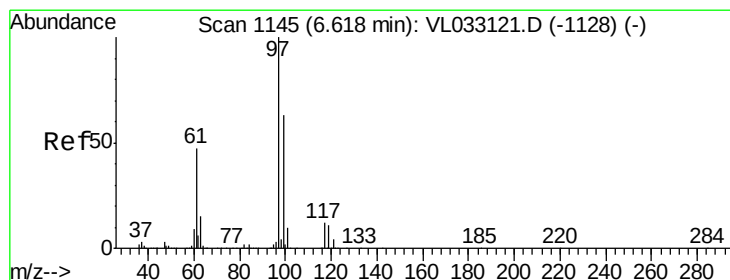
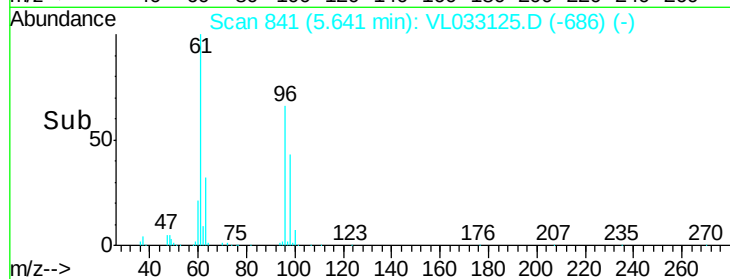
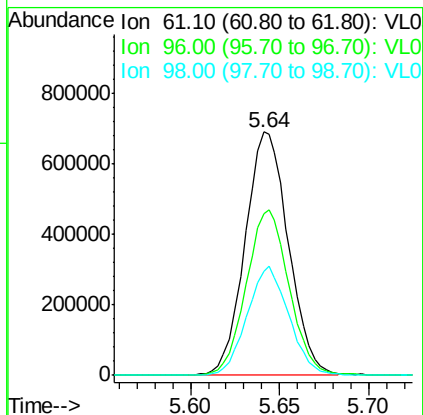
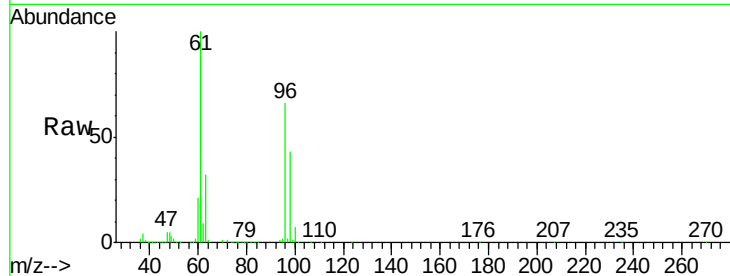


#31

cis-1,2-Dichloroethene
 Concen: 9.400 ppbv
 RT: 5.64 min Scan# 841
 Delta R.T. -0.00 min
 Lab File: VL033125.D
 Acq: 29 Jan 2019 2:29

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0128ABS01

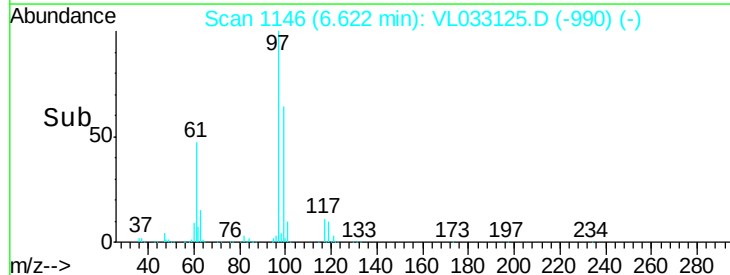
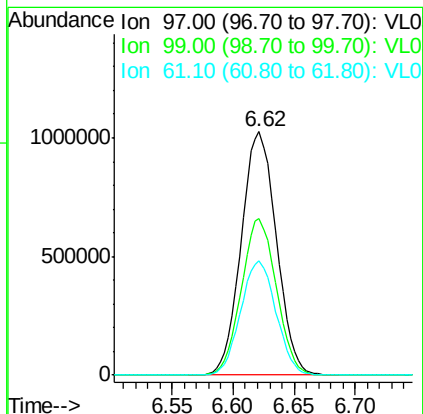
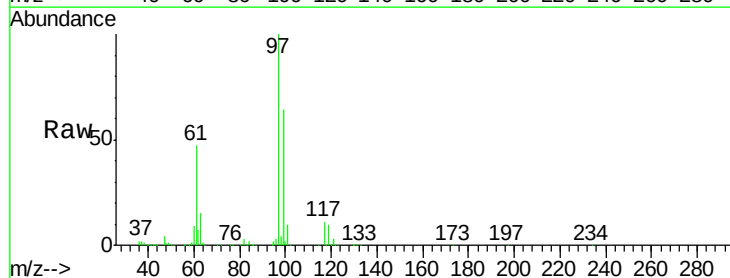
Tgt Ion: 61 Resp: 1173590
 Ion Ratio Lower Upper
 61 100
 96 66.4 57.6 86.4
 98 42.9 37.0 55.4

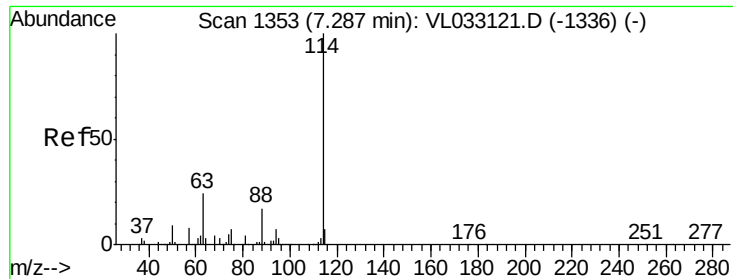


#32

1,1,1-Trichloroethane
 Concen: 7.006 ppbv
 RT: 6.62 min Scan# 1146
 Delta R.T. 0.00 min
 Lab File: VL033125.D
 Acq: 29 Jan 2019 2:29

Tgt Ion: 97 Resp: 2042526
 Ion Ratio Lower Upper
 97 100
 99 64.1 51.7 77.5
 61 47.2 38.6 57.8

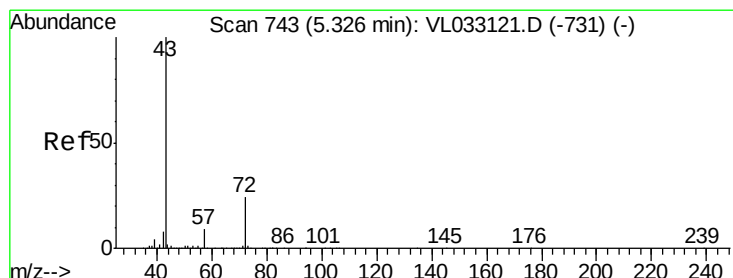
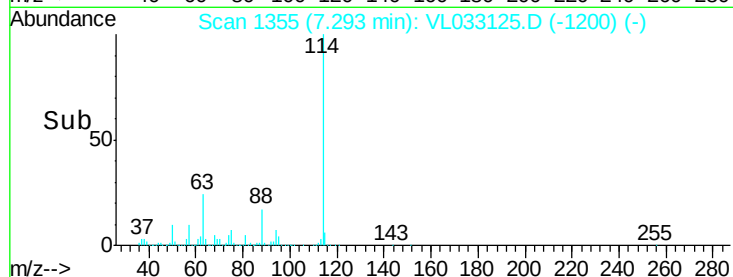
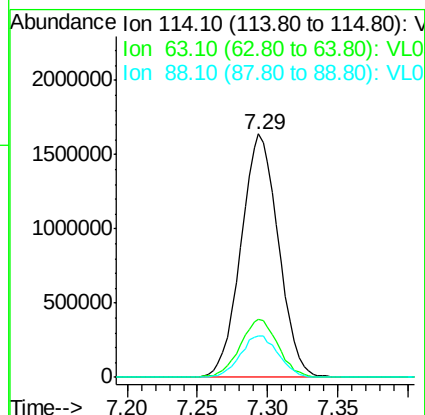
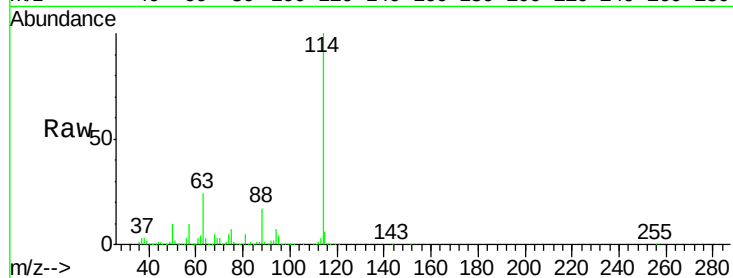




#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.29 min Scan# 1355
 Delta R.T. -0.00 min
 Lab File: VL033125.D
 Acq: 29 Jan 2019 2:29

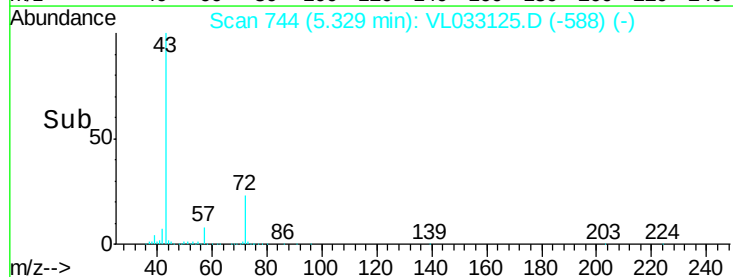
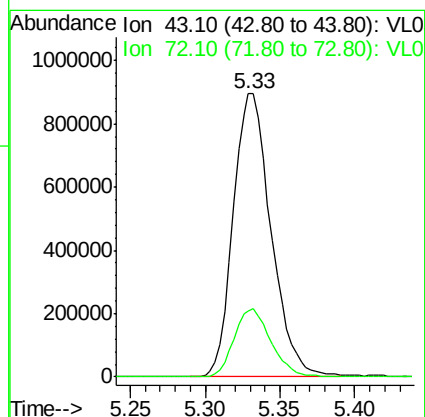
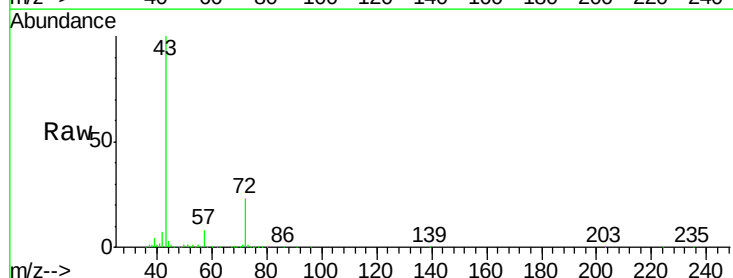
Instrument :
 MSVOA_L
 ClientSampleId :
 VL0128ABS01

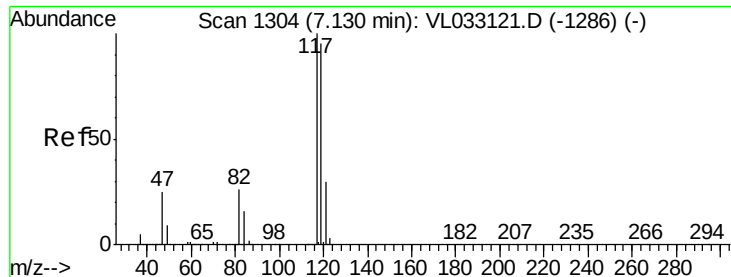
Tgt Ion:114 Resp: 3045553
 Ion Ratio Lower Upper
 114 100
 63 24.7 19.8 29.8
 88 17.5 14.2 21.2



#34
 2-Butanone
 Concen: 9.056 ppbv
 RT: 5.33 min Scan# 744
 Delta R.T. 0.00 min
 Lab File: VL033125.D
 Acq: 29 Jan 2019 2:29

Tgt Ion: 43 Resp: 1565203
 Ion Ratio Lower Upper
 43 100
 72 23.8 18.7 28.1





#35

Carbon Tetrachloride

Concen: 8.547 ppbv

RT: 7.14 min Scan# 1306

Delta R.T. 0.00 min

Lab File: VL033125.D

Acq: 29 Jan 2019 2:29

Instrument :

MSVOA_L

ClientSampleId :

VL0128ABS01

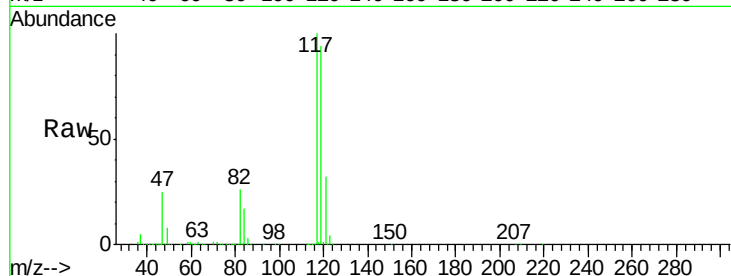
Tgt Ion:117 Resp: 2383281

Ion Ratio Lower Upper

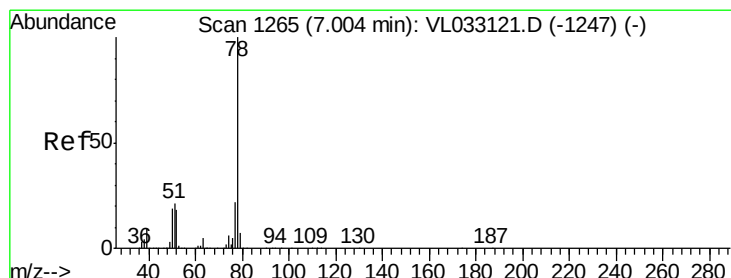
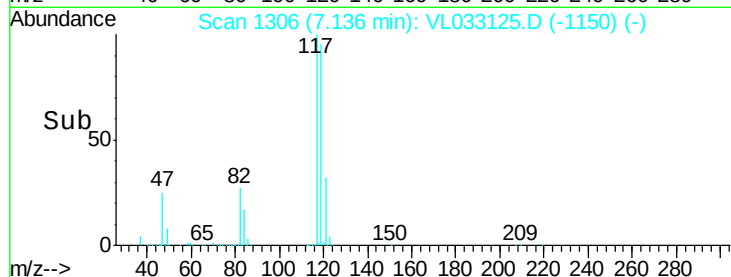
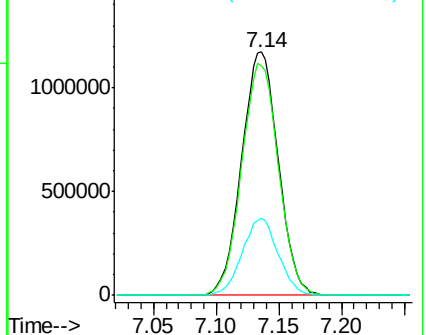
117 100

119 94.4 75.8 113.6

121 31.9 24.6 36.8



Abundance Ion 117.00 (116.70 to 117.70): V
Ion 119.00 (118.70 to 119.70): V
Ion 121.00 (120.70 to 121.70): V



#36

Benzene

Concen: 9.738 ppbv

RT: 7.01 min Scan# 1266

Delta R.T. 0.00 min

Lab File: VL033125.D

Acq: 29 Jan 2019 2:29

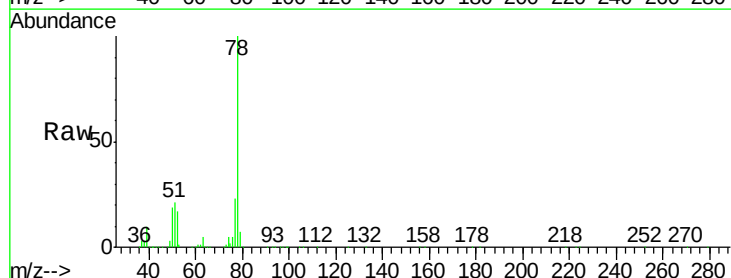
Tgt Ion: 78 Resp: 2617279

Ion Ratio Lower Upper

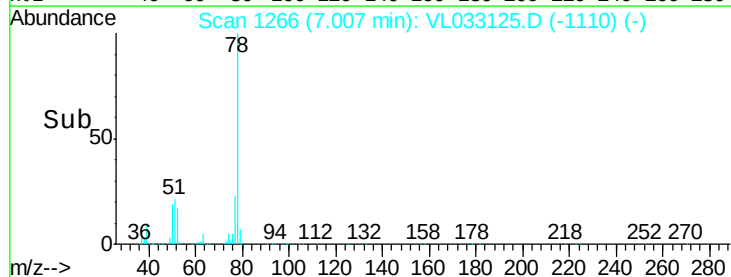
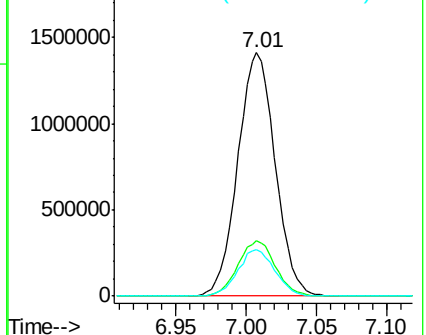
78 100

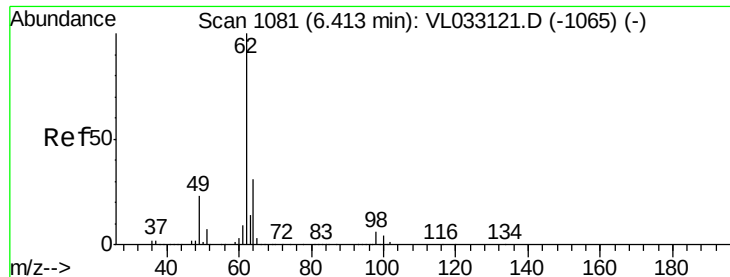
77 22.7 18.5 27.7

50 19.1 15.4 23.2



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

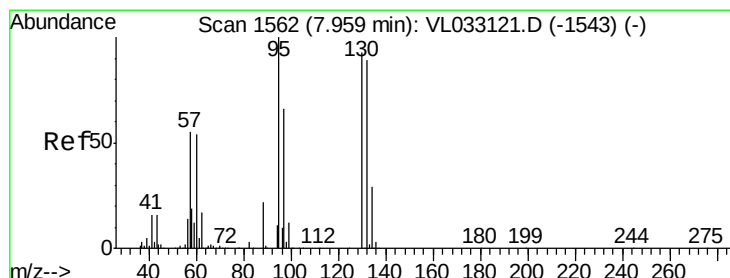
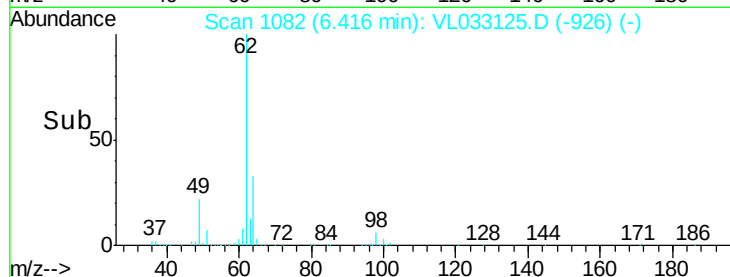
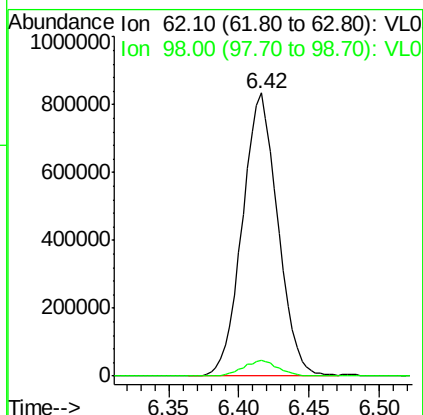
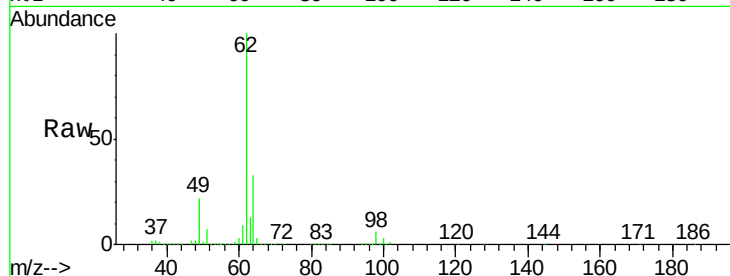




#37
 1,2-Dichloroethane
 Concen: 8.314 ppbv
 RT: 6.42 min Scan# 1082
 Delta R.T. 0.00 min
 Lab File: VL033125.D
 Acq: 29 Jan 2019 2:29

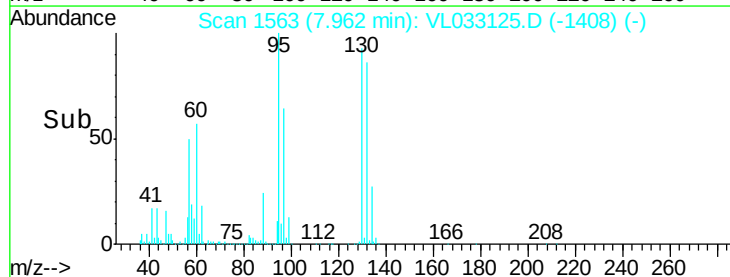
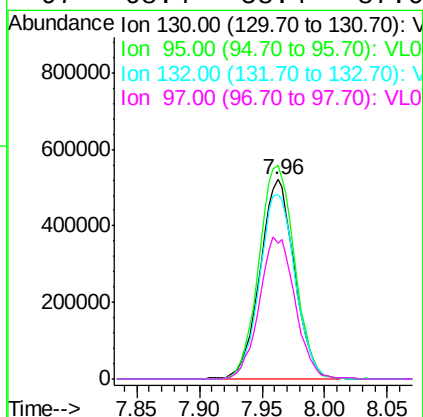
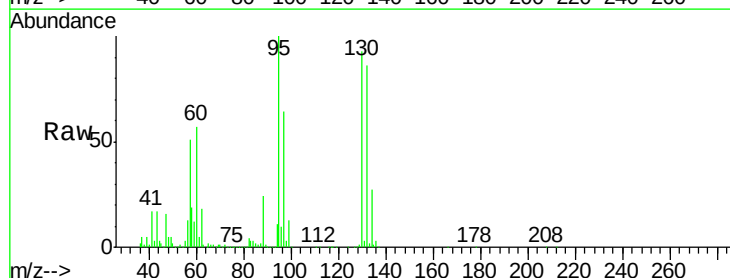
Instrument :
 MSVOA_L
 ClientSampleId :
 VL0128ABS01

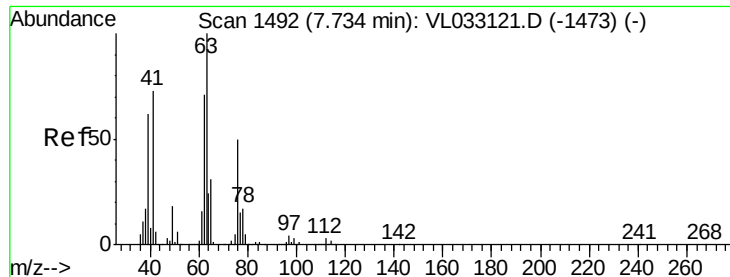
Tgt Ion: 62 Resp: 1472299
 Ion Ratio Lower Upper
 62 100
 98 5.6 4.6 7.0



#38
 Trichloroethene
 Concen: 9.117 ppbv
 RT: 7.96 min Scan# 1563
 Delta R.T. -0.00 min
 Lab File: VL033125.D
 Acq: 29 Jan 2019 2:29

Tgt Ion: 130 Resp: 995932
 Ion Ratio Lower Upper
 130 100
 95 107.2 94.0 141.0
 132 92.3 79.7 119.5
 97 68.4 58.4 87.6





#39

1,2-Dichloropropane

Concen: 9.234 ppbv

RT: 7.74 min Scan# 1493

Delta R.T. -0.00 min

Lab File: VL033125.D

Acq: 29 Jan 2019 2:29

Instrument :

MSVOA_L

ClientSampleId :

VL0128ABS01

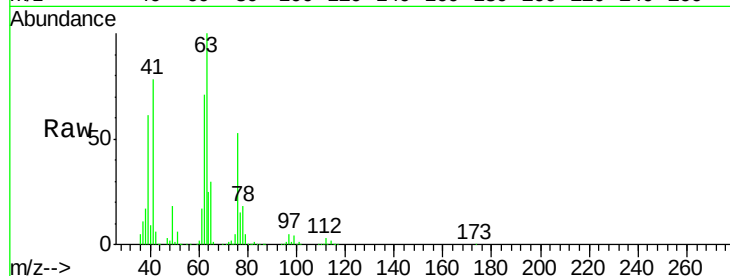
Tgt Ion: 63 Resp: 873972

Ion Ratio Lower Upper

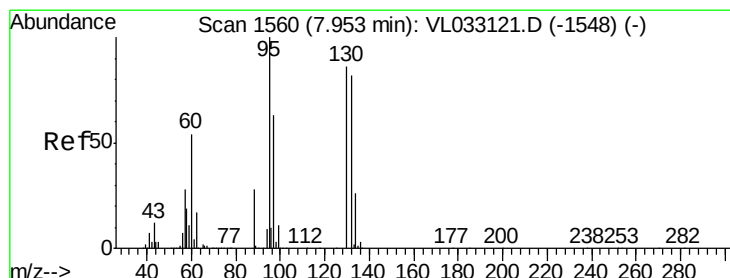
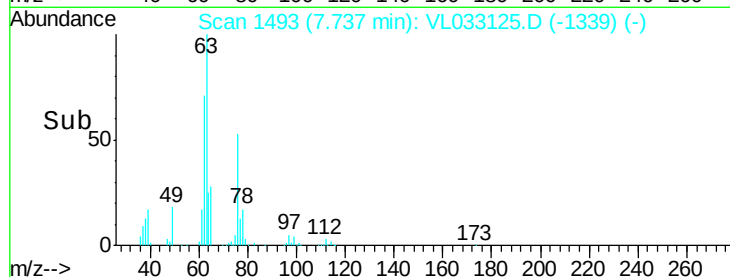
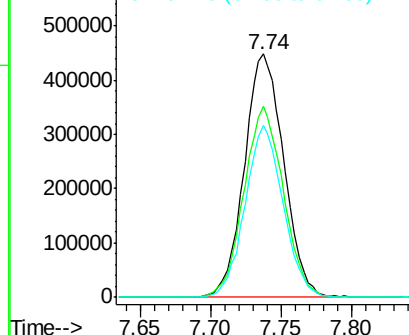
63 100

41 78.3 57.8 86.8

62 70.5 54.6 82.0



Abundance Ion 63.10 (62.80 to 63.80): VL0
Ion 41.10 (40.80 to 41.80): VL0
Ion 62.10 (61.80 to 62.80): VL0



#40

1,4-Dioxane

Concen: 9.046 ppbv

RT: 7.96 min Scan# 1561

Delta R.T. 0.00 min

Lab File: VL033125.D

Acq: 29 Jan 2019 2:29

Tgt Ion: 88 Resp: 326913

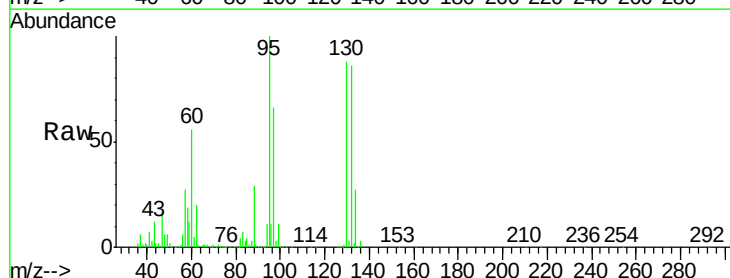
Ion Ratio Lower Upper

88 100

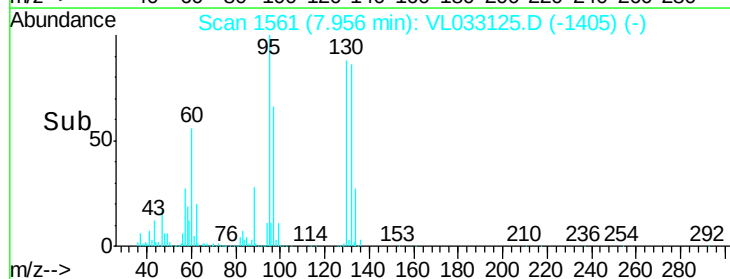
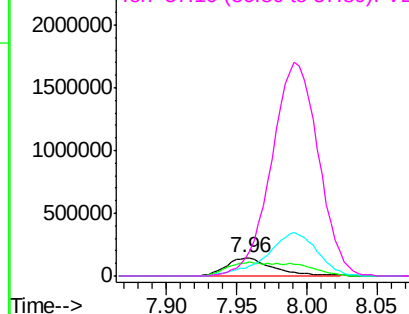
58 127.8 103.5 155.3

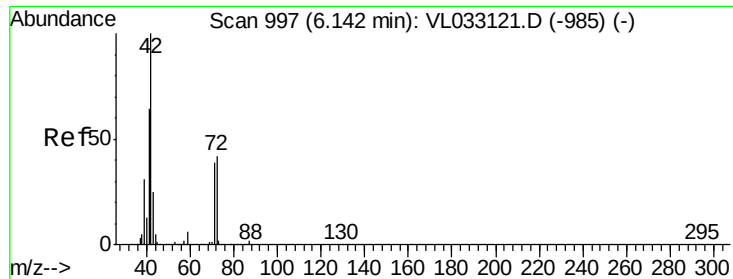
43 264.9 217.8 326.8

57 1207.8 992.7 1489.1



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: 9.240 ppbv

RT: 6.15 min Scan# 999

Delta R.T. 0.00 min

Lab File: VL033125.D

Acq: 29 Jan 2019 2:29

Instrument :

MSVOA_L

ClientSampleId :

VL0128ABS01

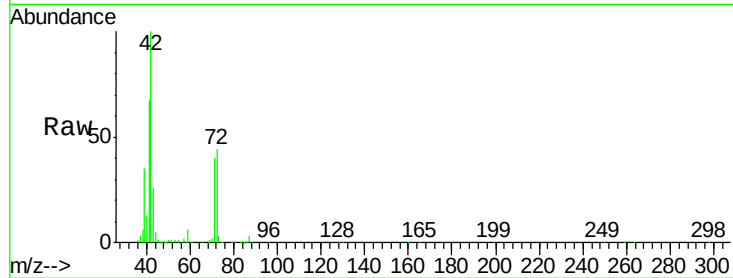
Tgt Ion: 42 Resp: 898783

Ion Ratio Lower Upper

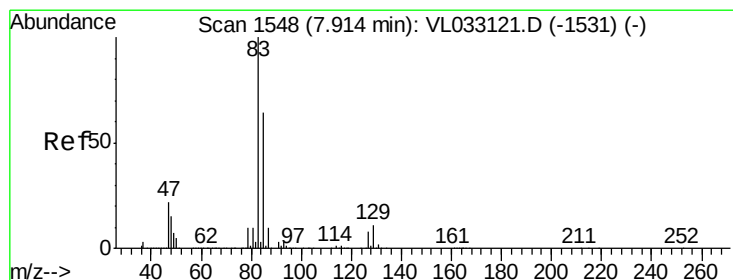
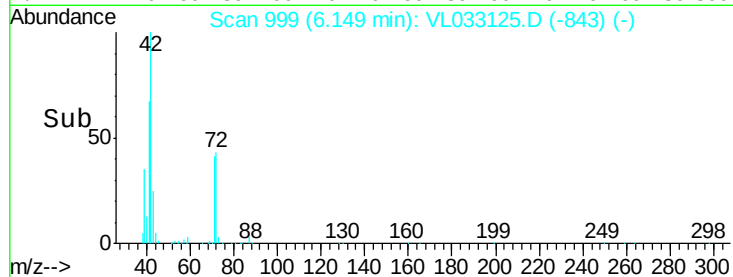
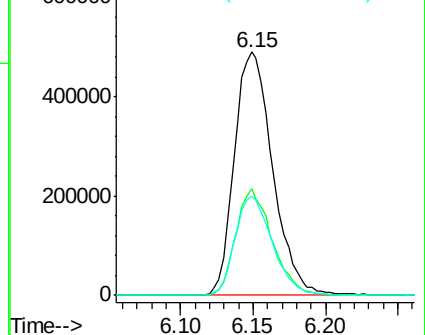
42 100

72 41.7 33.8 50.8

71 39.8 31.6 47.4



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: 8.937 ppbv

RT: 7.92 min Scan# 1549

Delta R.T. -0.00 min

Lab File: VL033125.D

Acq: 29 Jan 2019 2:29

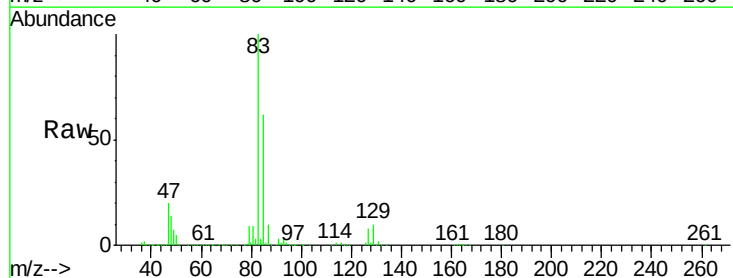
Tgt Ion: 83 Resp: 2098964

Ion Ratio Lower Upper

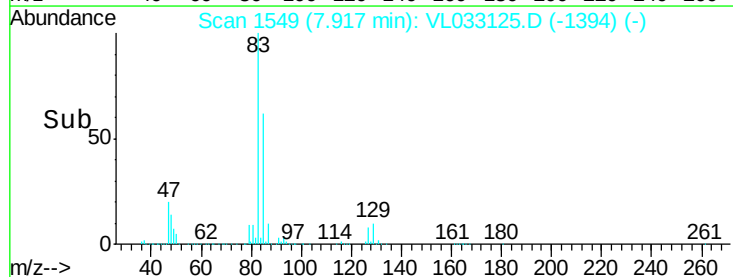
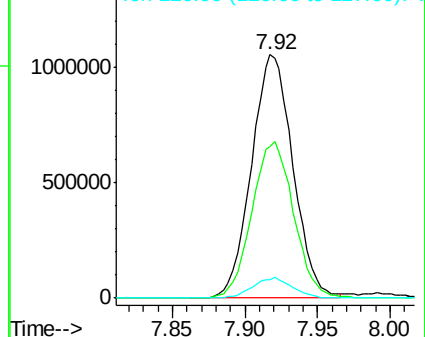
83 100

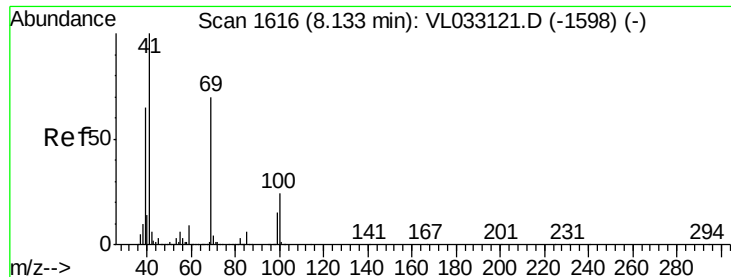
85 62.3 52.9 79.3

127 7.7 6.7 10.1



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

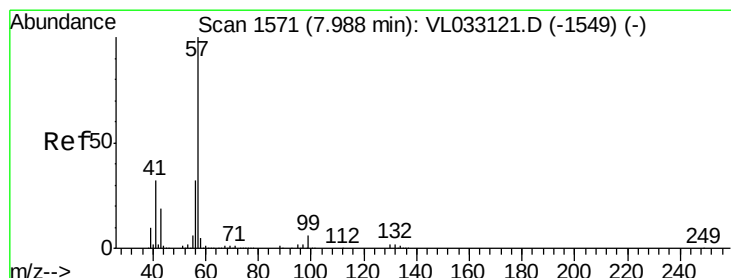
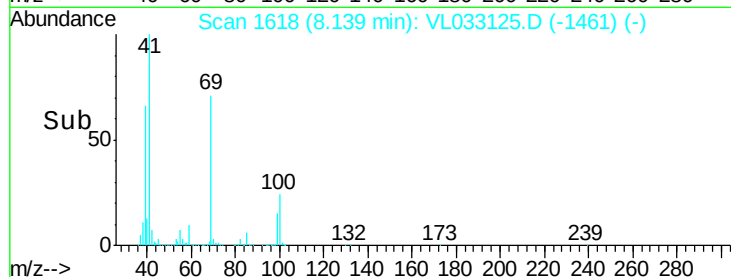
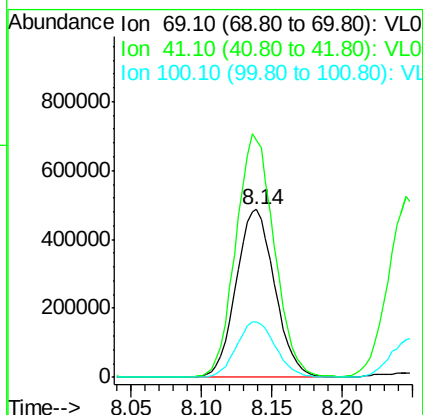
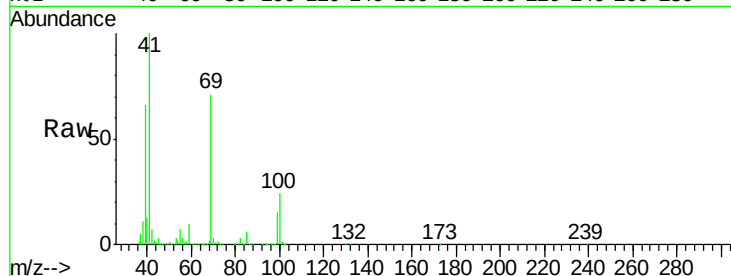




#43
Methyl Methacrylate
Concen: 9.936 ppbv
RT: 8.14 min Scan# 1618
Delta R.T. 0.01 min
Lab File: VL033125.D
Acq: 29 Jan 2019 2:29

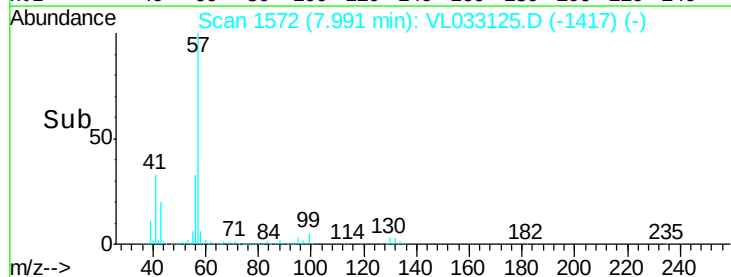
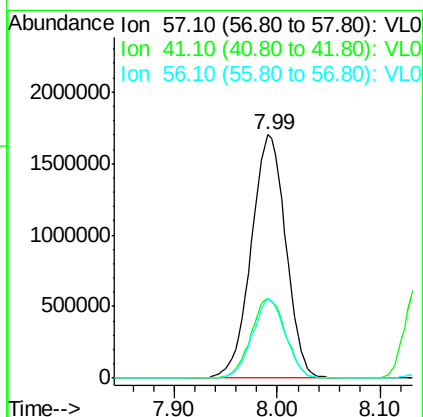
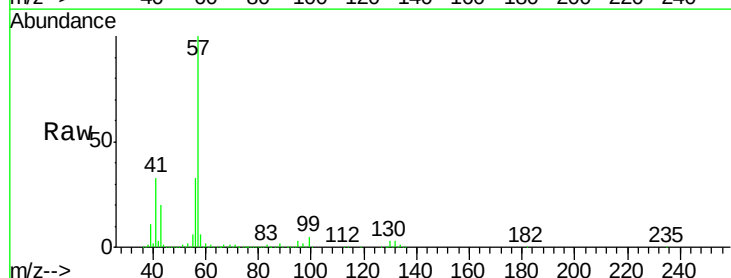
Instrument :
MSVOA_L
ClientSampleId :
VL0128ABS01

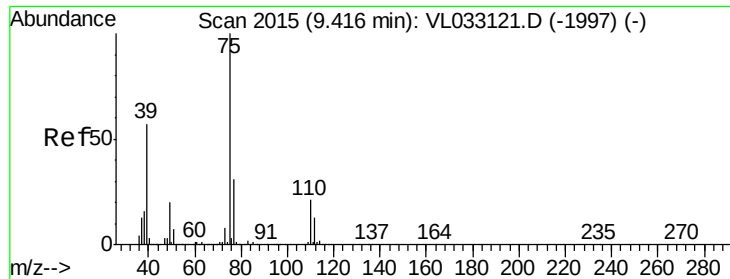
Tgt Ion: 69 Resp: 934773
Ion Ratio Lower Upper
69 100
41 143.9 113.9 170.9
100 33.6 26.2 39.4



#44
2,2,4-Trimethylpentane
Concen: 9.298 ppbv
RT: 7.99 min Scan# 1572
Delta R.T. -0.00 min
Lab File: VL033125.D
Acq: 29 Jan 2019 2:29

Tgt Ion: 57 Resp: 3946129
Ion Ratio Lower Upper
57 100
41 32.7 26.1 39.1
56 31.2 25.0 37.4





#45

t-1,3-Dichloropropene

Concen: 11.020 ppbv

RT: 9.42 min Scan# 2015

Delta R.T. -0.00 min

Lab File: VL033125.D

Acq: 29 Jan 2019 2:29

Instrument :

MSVOA_L

ClientSampleId :

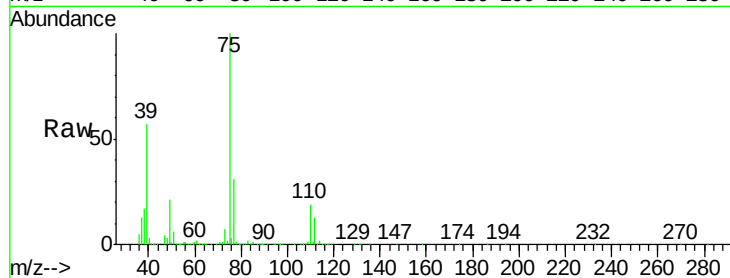
VL0128ABS01

Tgt Ion: 75 Resp: 1271233

Ion Ratio Lower Upper

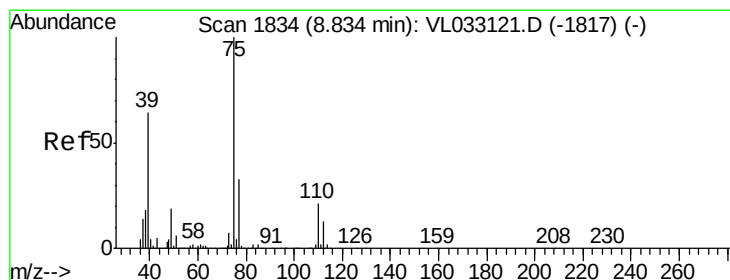
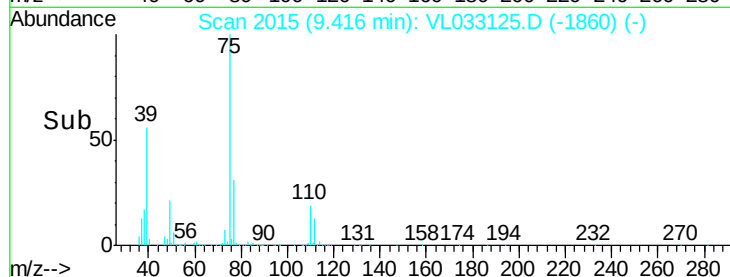
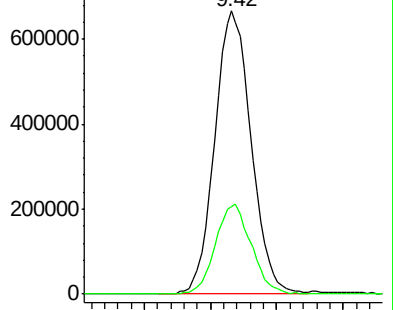
75 100

77 31.1 24.9 37.3



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: 10.647 ppbv

RT: 8.84 min Scan# 1835

Delta R.T. -0.00 min

Lab File: VL033125.D

Acq: 29 Jan 2019 2:29

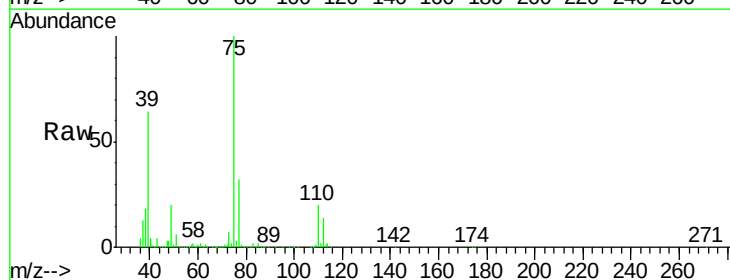
Tgt Ion: 75 Resp: 1468187

Ion Ratio Lower Upper

75 100

39 64.0 52.0 78.0

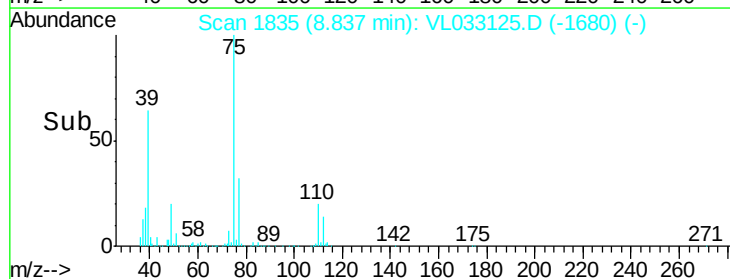
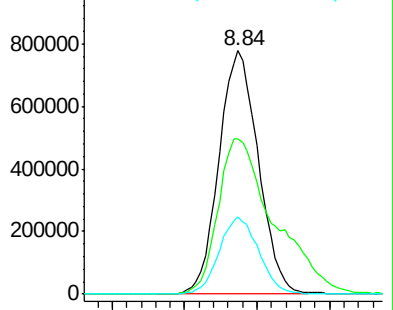
77 31.8 25.5 38.3

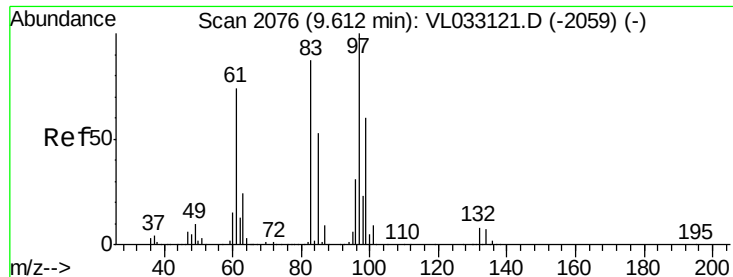


Abundance Ion 75.00 (74.70 to 75.70): VL0

Ion 39.00 (38.70 to 39.70): VL0

Ion 77.00 (76.70 to 77.70): VL0

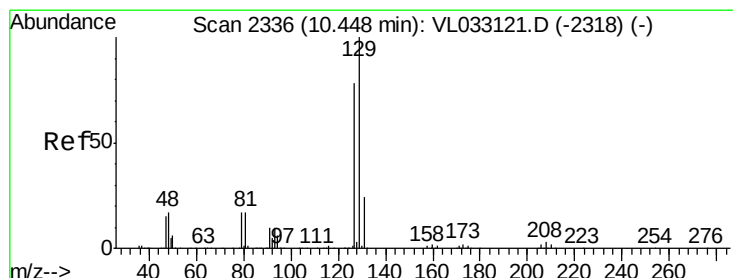
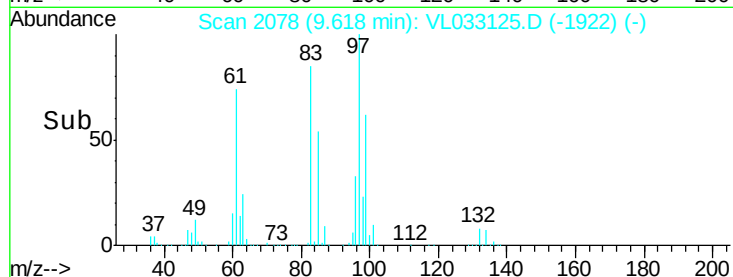
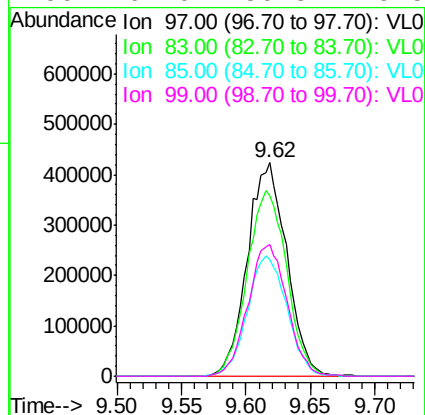
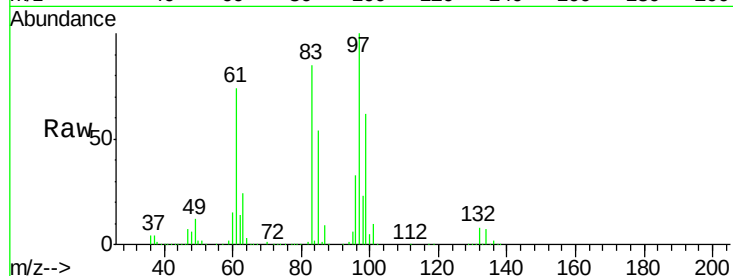




#47
 1,1,2-Trichloroethane
 Concen: 8.200 ppbv
 RT: 9.62 min Scan# 2078
 Delta R.T. 0.00 min
 Lab File: VL033125.D
 Acq: 29 Jan 2019 2:29

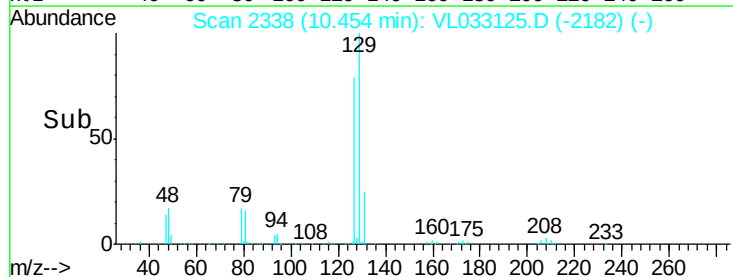
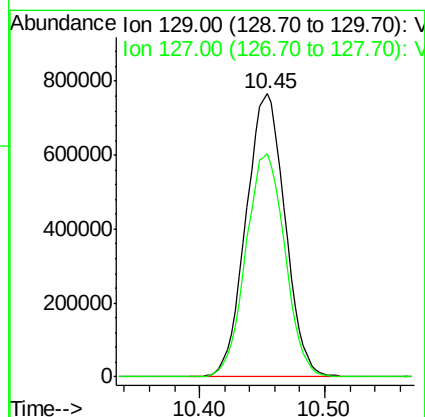
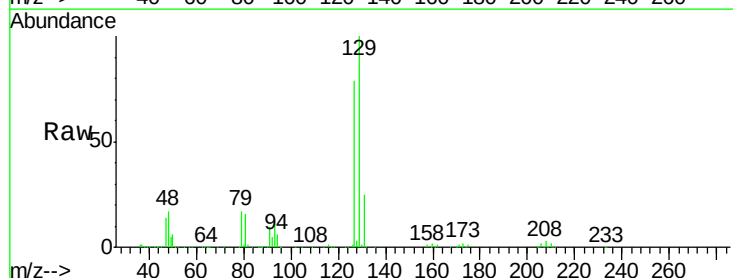
Instrument :
 MSVOA_L
 ClientSampleId :
 VL0128ABS01

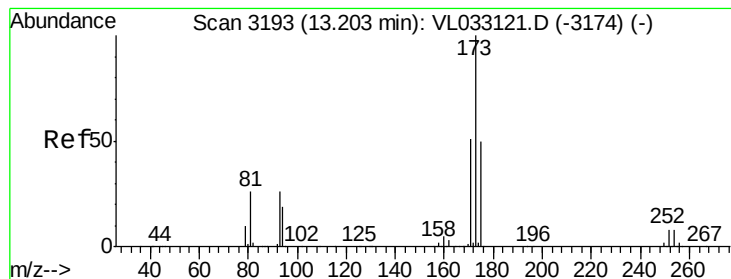
Tgt Ion: 97 Resp: 899774
 Ion Ratio Lower Upper
 97 100
 83 84.6 71.4 107.2
 85 54.2 47.2 70.8
 99 62.0 50.3 75.5



#48
 Dibromochloromethane
 Concen: 8.577 ppbv
 RT: 10.45 min Scan# 2338
 Delta R.T. 0.00 min
 Lab File: VL033125.D
 Acq: 29 Jan 2019 2:29

Tgt Ion: 129 Resp: 1660810
 Ion Ratio Lower Upper
 129 100
 127 79.0 39.3 117.9





#49

Bromoform

Concen: 8.648 ppbv

RT: 13.21 min Scan# 3194

Delta R.T. 0.01 min

Lab File: VL033125.D

Acq: 29 Jan 2019 2:29

Instrument :

MSVOA_L

ClientSampleId :

VL0128ABS01

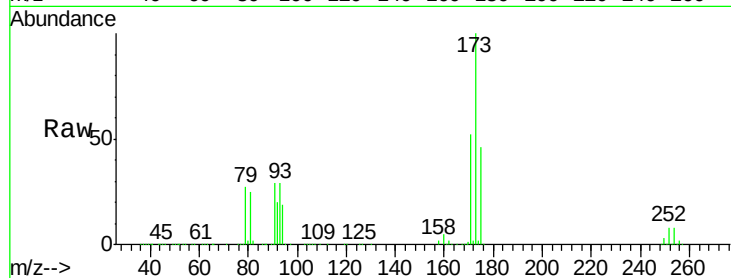
Tgt Ion:173 Resp: 1399200

Ion Ratio Lower Upper

173 100

175 48.8 38.9 58.3

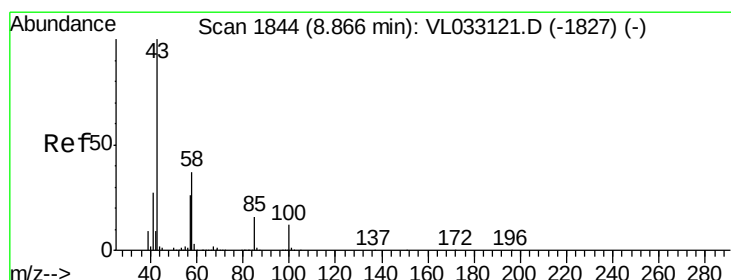
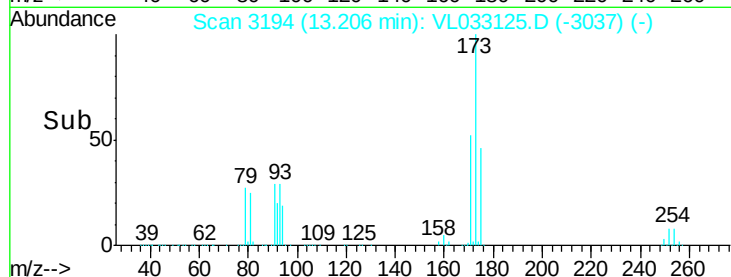
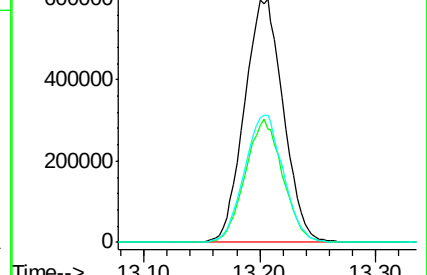
171 52.5 41.8 62.6



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: 9.709 ppbv

RT: 8.87 min Scan# 1846

Delta R.T. 0.00 min

Lab File: VL033125.D

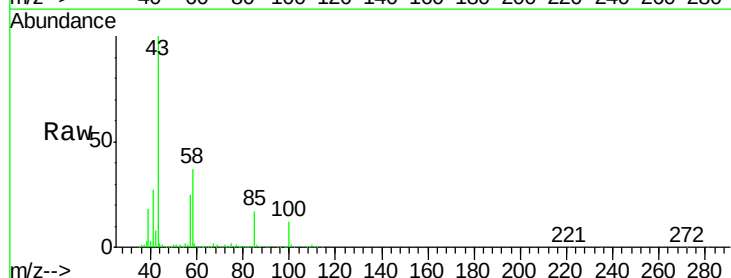
Acq: 29 Jan 2019 2:29

Tgt Ion: 43 Resp: 2239778

Ion Ratio Lower Upper

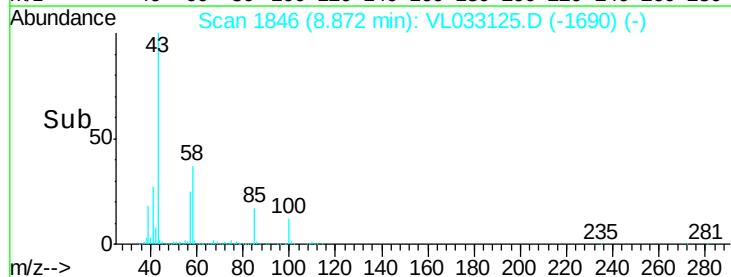
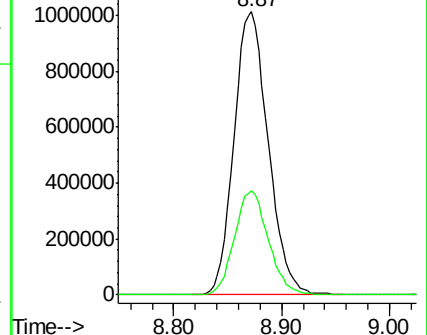
43 100

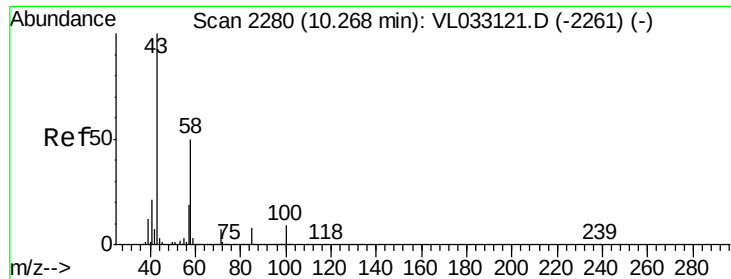
58 36.4 29.4 44.0



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

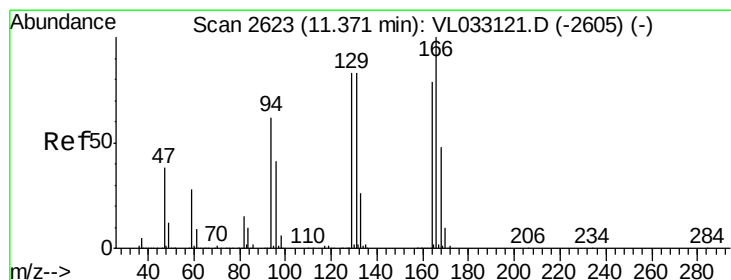
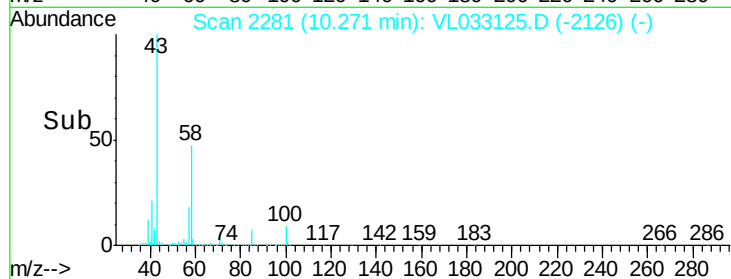
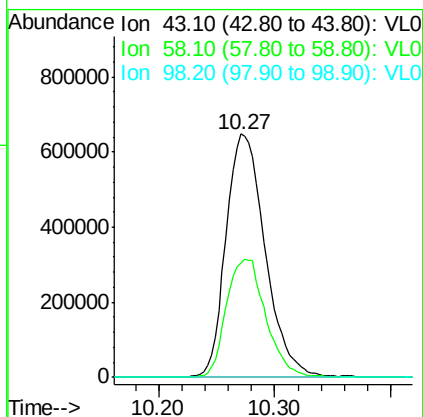
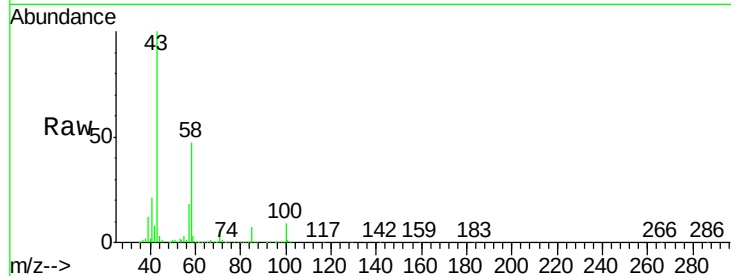




#51
 2-Hexanone
 Concen: 9.407 ppbv
 RT: 10.27 min Scan# 2281
 Delta R.T. -0.00 min
 Lab File: VL033125.D
 Acq: 29 Jan 2019 2:29

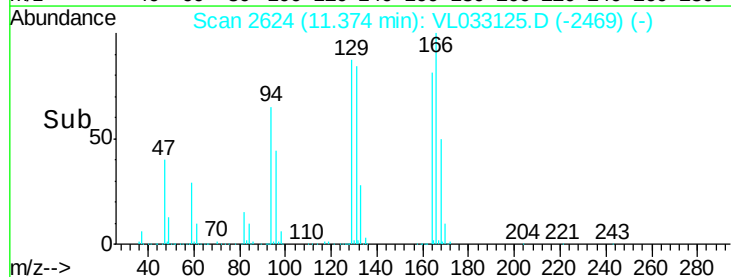
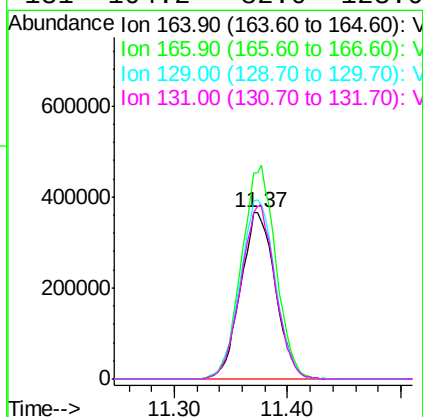
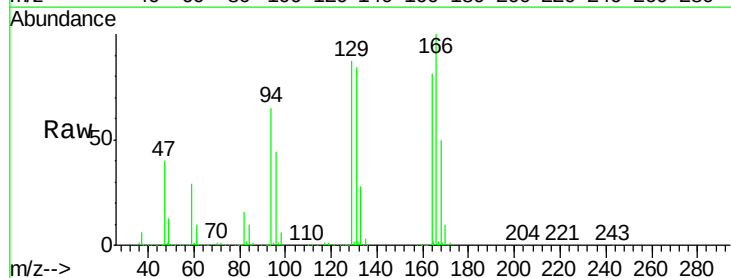
Instrument :
 MSVOA_L
 ClientSampleId :
 VL0128ABS01

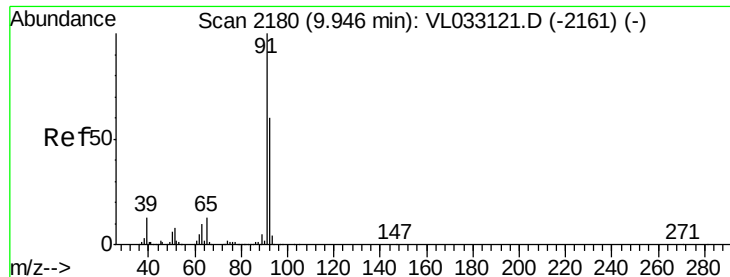
Tgt Ion: 43 Resp: 1512549
 Ion Ratio Lower Upper
 43 100
 58 49.2 39.5 59.3
 98 0.3 0.3 0.5#



#52
 Tetrachloroethene
 Concen: 8.719 ppbv
 RT: 11.37 min Scan# 2624
 Delta R.T. -0.00 min
 Lab File: VL033125.D
 Acq: 29 Jan 2019 2:29

Tgt Ion: 164 Resp: 779297
 Ion Ratio Lower Upper
 164 100
 166 124.2 101.3 151.9
 129 107.5 83.3 124.9
 131 104.2 82.0 123.0





#53

Toluene

Concen: 9.329 ppbv

RT: 9.95 min Scan# 2181

Delta R.T. 0.00 min

Lab File: VL033125.D

Acq: 29 Jan 2019 2:29

Instrument :

MSVOA_L

ClientSampleId :

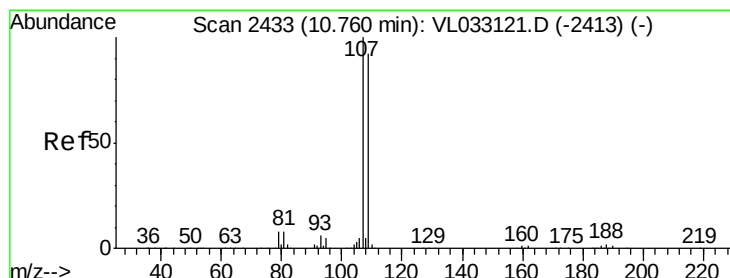
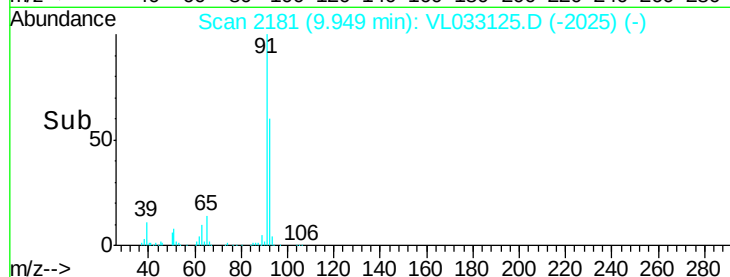
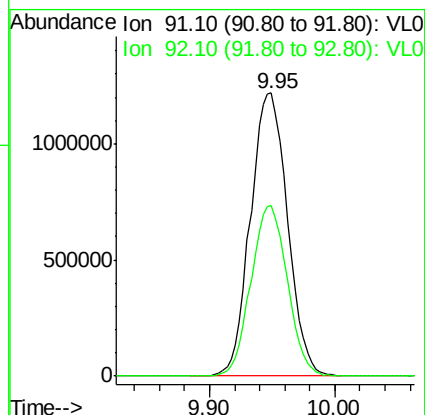
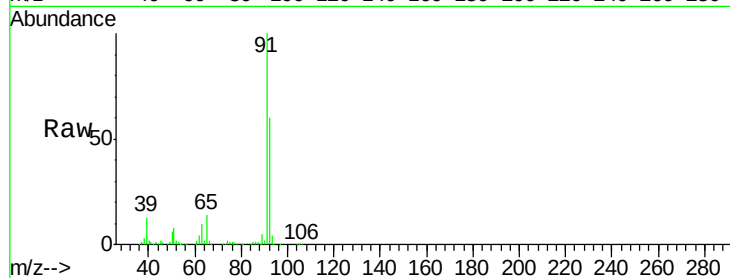
VL0128ABS01

Tgt Ion: 91 Resp: 2506760

Ion Ratio Lower Upper

91 100

92 59.2 47.9 71.9



#54

1,2-Dibromoethane

Concen: 8.778 ppbv

RT: 10.76 min Scan# 2433

Delta R.T. -0.00 min

Lab File: VL033125.D

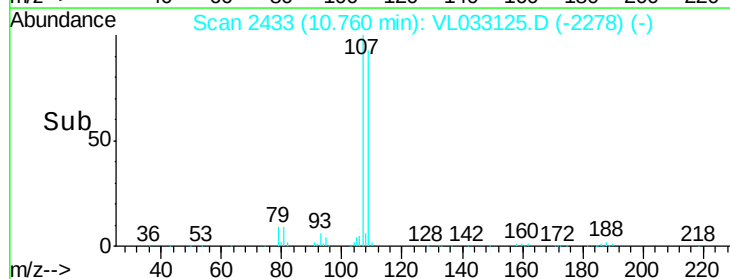
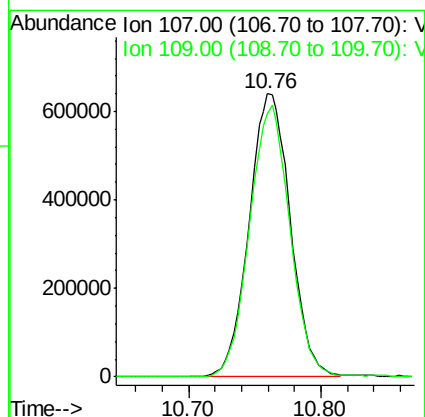
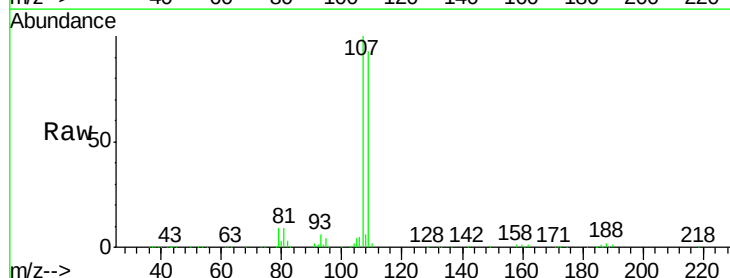
Acq: 29 Jan 2019 2:29

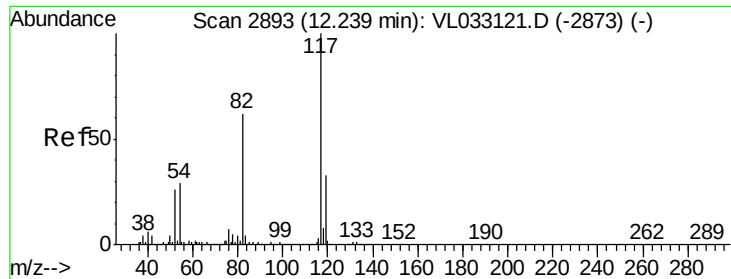
Tgt Ion: 107 Resp: 1383307

Ion Ratio Lower Upper

107 100

109 92.9 75.8 113.6

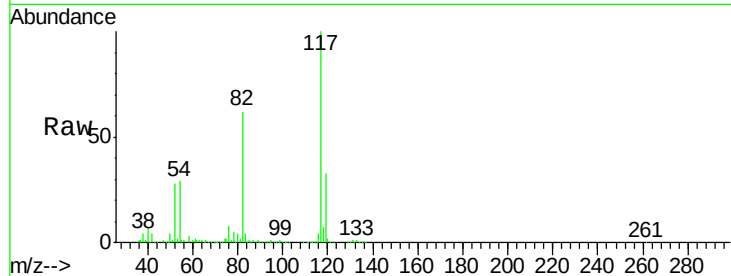




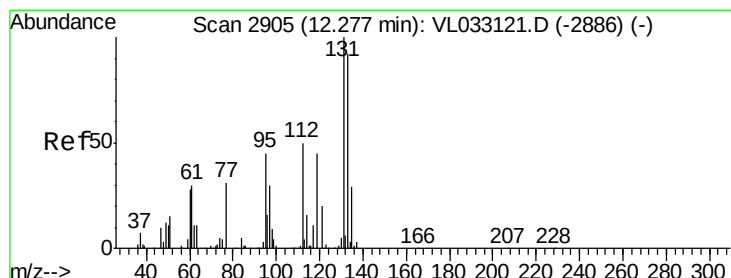
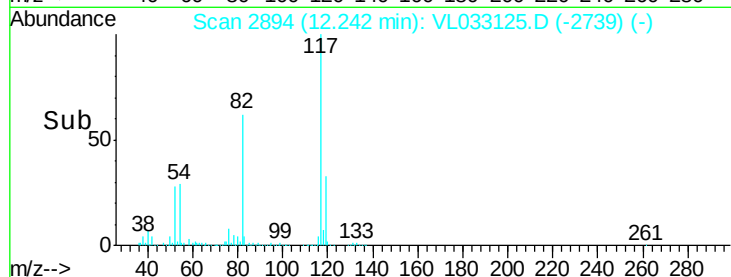
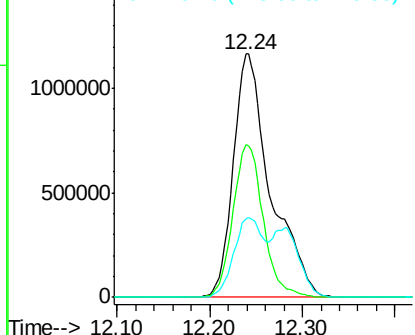
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.24 min Scan# 2894
Delta R.T. -0.00 min
Lab File: VL033125.D
Acq: 29 Jan 2019 2:29

Instrument :
MSVOA_L
ClientSampleId :
VL0128ABS01

Tgt Ion:117 Resp: 3255588
Ion Ratio Lower Upper
117 100
82 51.0 48.3 72.5
119 25.4 25.9 38.9#

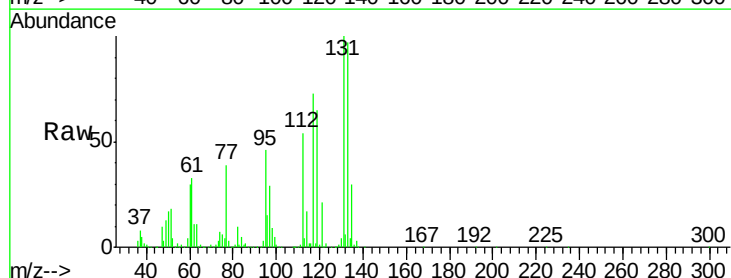


Abundance Ion 117.10 (116.80 to 117.80): V
Ion 82.10 (81.80 to 82.80): V
Ion 119.10 (118.80 to 119.80): V

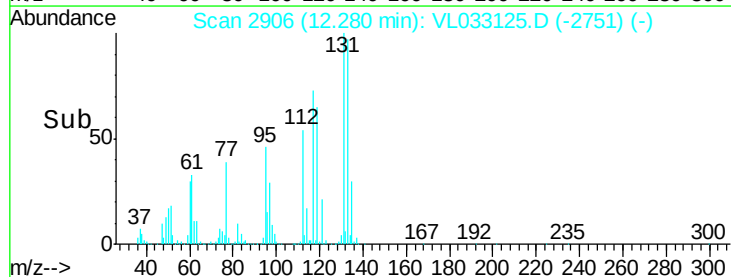
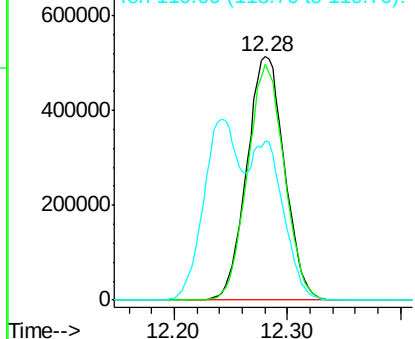


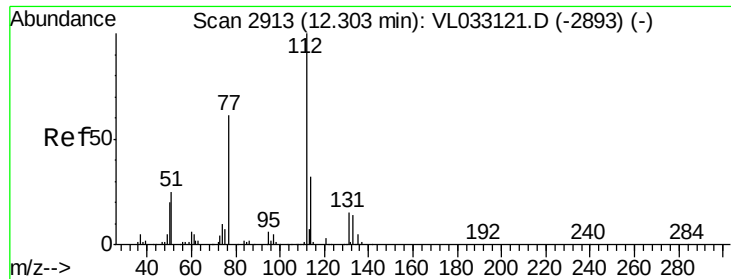
#56
1,1,1,2-Tetrachloroethane
Concen: 7.391 ppbv
RT: 12.28 min Scan# 2906
Delta R.T. -0.00 min
Lab File: VL033125.D
Acq: 29 Jan 2019 2:29

Tgt Ion:131 Resp: 1187683
Ion Ratio Lower Upper
131 100
133 94.5 76.6 115.0
119 60.0 44.6 66.8



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: 7.446 ppbv

RT: 12.30 min Scan# 2913

Delta R.T. -0.00 min

Lab File: VL033125.D

Acq: 29 Jan 2019 2:29

Instrument :

MSVOA_L

ClientSampleId :

VL0128ABS01

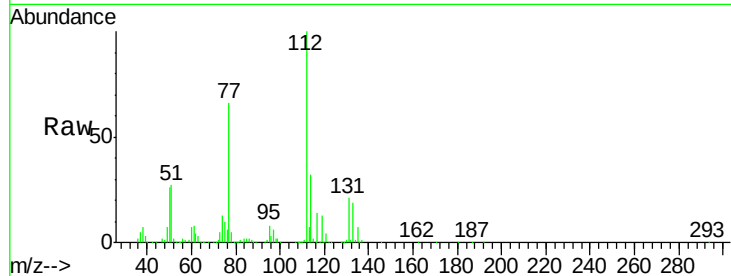
Tgt Ion:112 Resp: 1938622

Ion Ratio Lower Upper

112 100

77 65.9 51.6 77.4

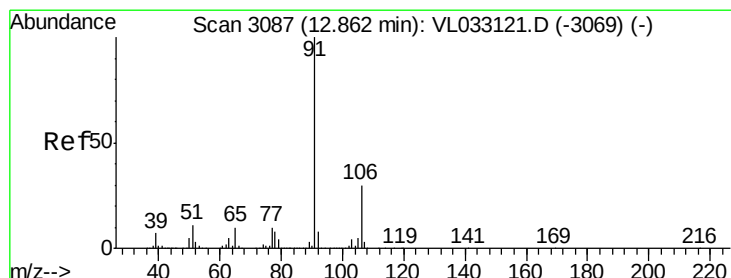
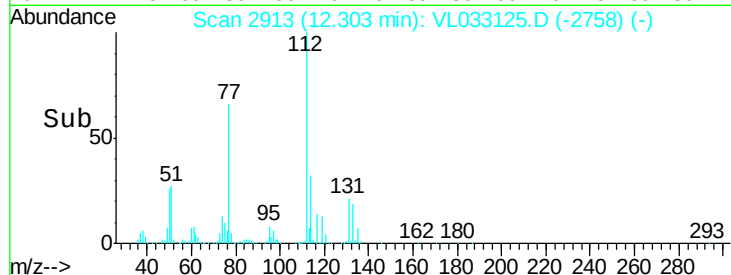
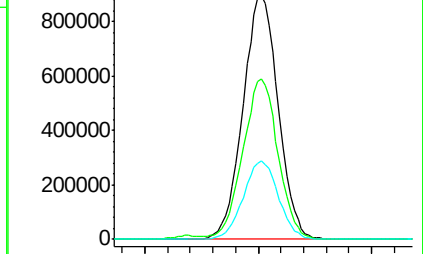
114 32.1 27.9 34.1



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: 8.711 ppbv

RT: 12.87 min Scan# 3088

Delta R.T. 0.00 min

Lab File: VL033125.D

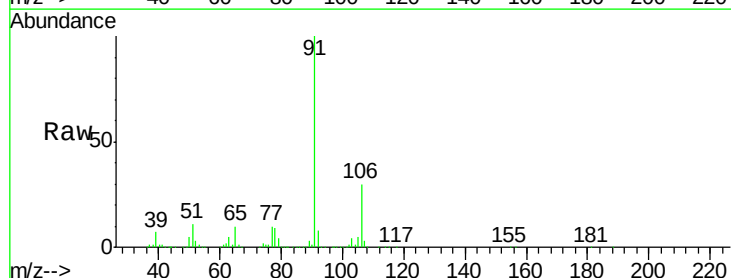
Acq: 29 Jan 2019 2:29

Tgt Ion: 91 Resp: 3345029

Ion Ratio Lower Upper

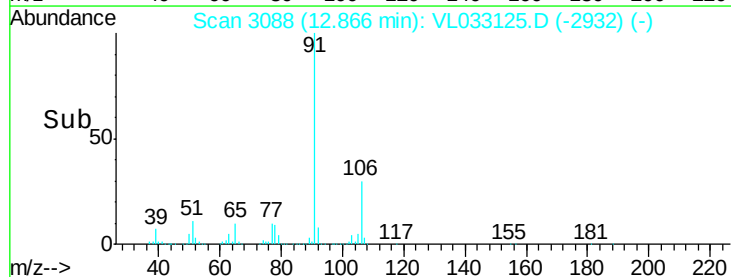
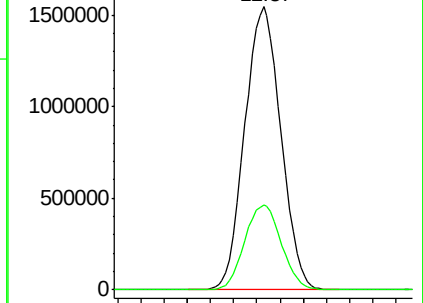
91 100

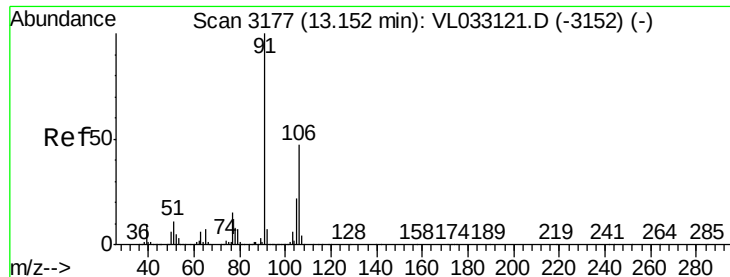
106 30.2 24.4 36.6



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V

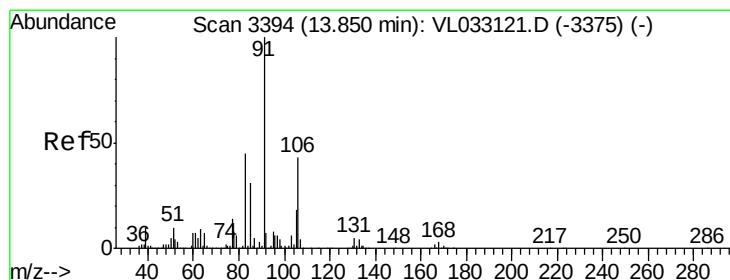
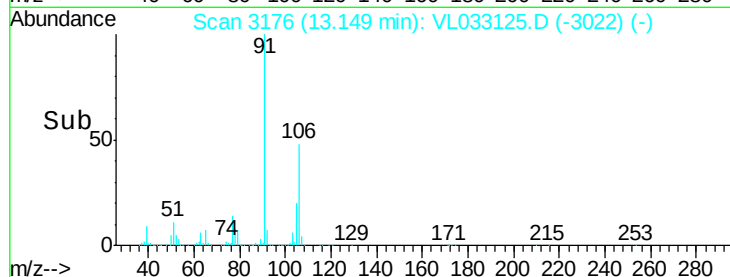
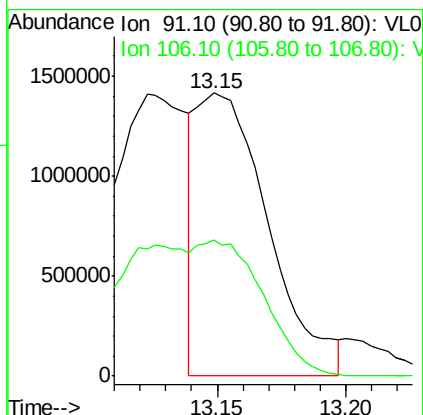
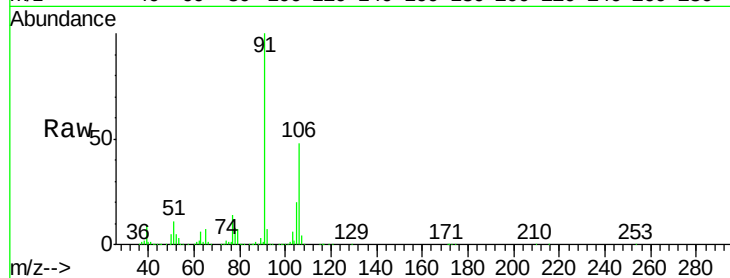




#59
m/p-Xylene
Concen: 7.676 ppbv
RT: 13.15 min Scan# 3176
Delta R.T. -0.00 min
Lab File: VL033125.D
Acq: 29 Jan 2019 2:29

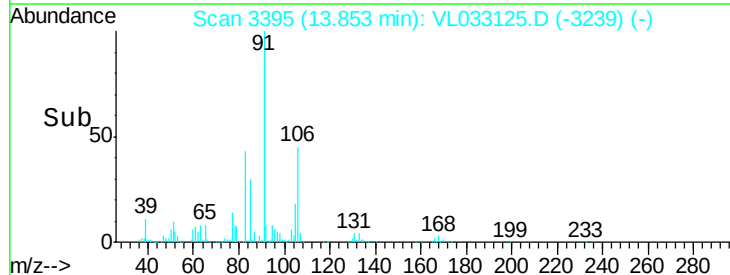
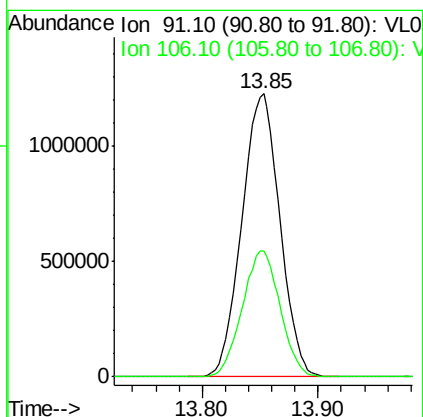
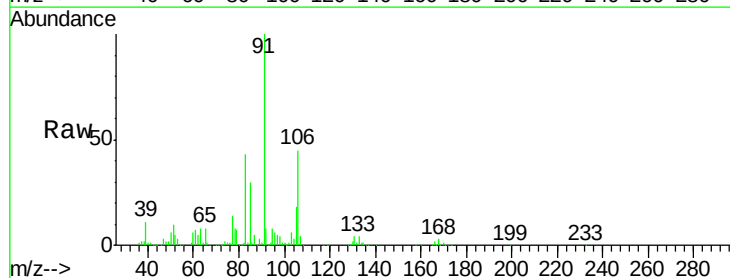
Instrument :
MSVOA_L
ClientSampleId :
VL0128ABS01

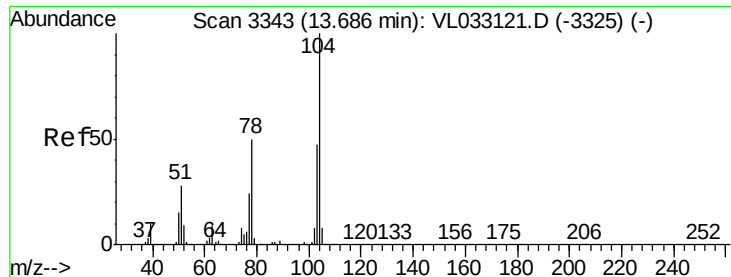
Tgt Ion: 91 Resp: 2730064
Ion Ratio Lower Upper
91 100
106 96.1 0.0 0.0#



#60
o-Xylene
Concen: 7.561 ppbv
RT: 13.85 min Scan# 3395
Delta R.T. 0.00 min
Lab File: VL033125.D
Acq: 29 Jan 2019 2:29

Tgt Ion: 91 Resp: 2786548
Ion Ratio Lower Upper
91 100
106 44.5 22.6 67.8





#61

Styrene

Concen: 4.398 ppbv

RT: 13.69 min Scan# 3345

Delta R.T. 0.01 min

Lab File: VL033125.D

Acq: 29 Jan 2019 2:29

Instrument :

MSVOA_L

ClientSampleId :

VL0128ABS01

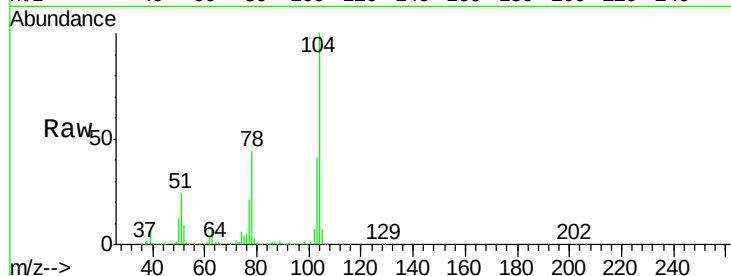
Tgt Ion:104 Resp: 1034877

Ion Ratio Lower Upper

104 100

78 103.6 41.4 62.0#

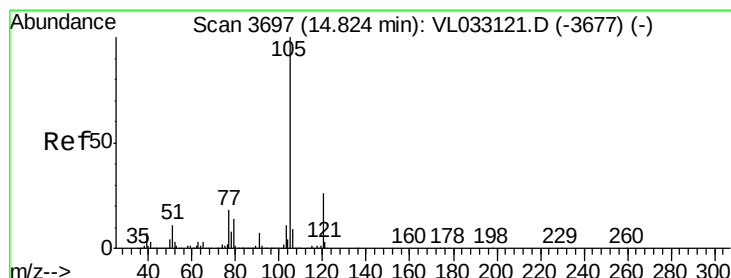
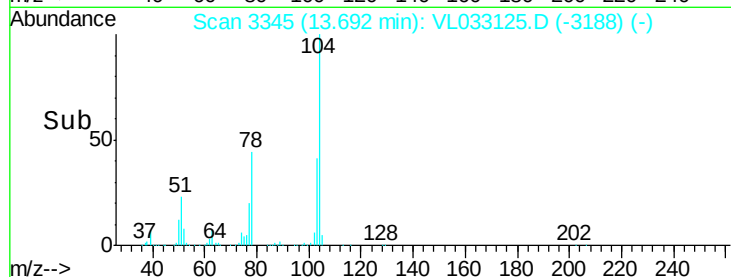
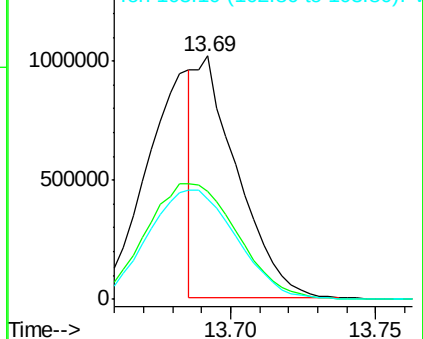
103 95.7 37.8 56.6#



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: 7.628 ppbv

RT: 14.82 min Scan# 3697

Delta R.T. -0.00 min

Lab File: VL033125.D

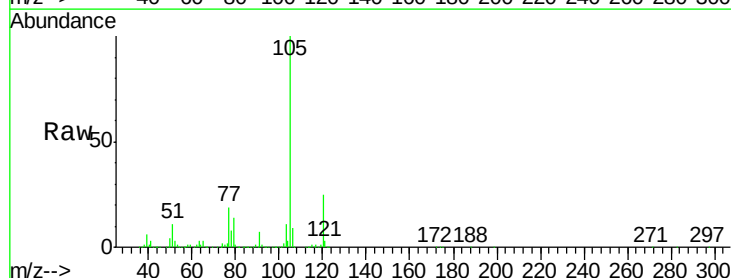
Acq: 29 Jan 2019 2:29

Tgt Ion:105 Resp: 3983018

Ion Ratio Lower Upper

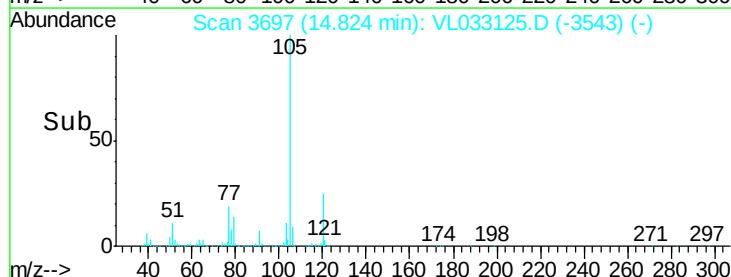
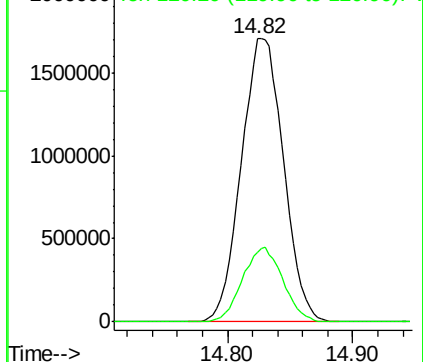
105 100

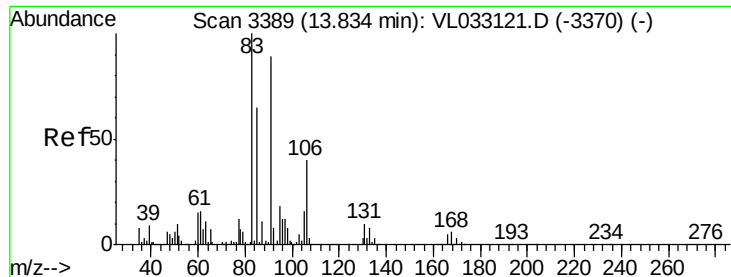
120 25.2 20.4 30.6



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: 6.548 ppbv

RT: 13.84 min Scan# 3390

Delta R.T. -0.00 min

Lab File: VL033125.D

Acq: 29 Jan 2019 2:29

Instrument :

MSVOA_L

ClientSampleId :

VL0128ABS01

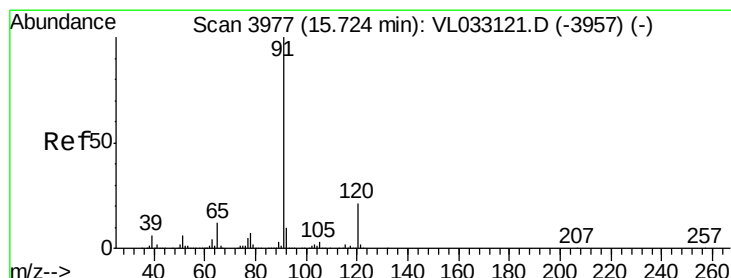
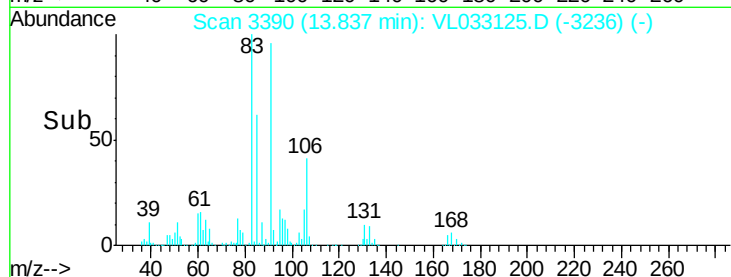
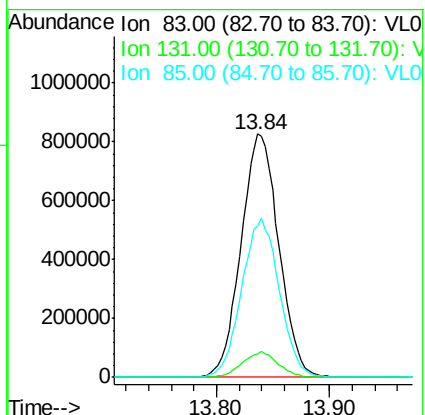
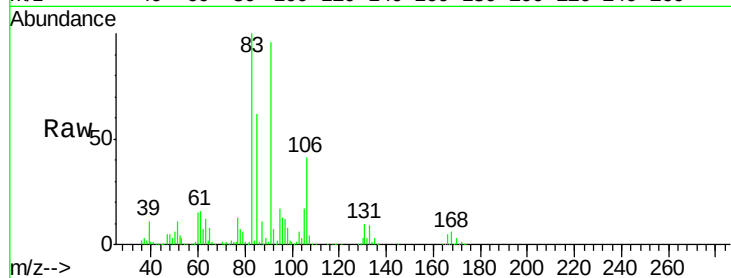
Tgt Ion: 83 Resp: 1921915

Ion	Ratio	Lower	Upper
83	100		
131	10.0	4.9	14.6
85	65.0	32.5	97.4

83 100

131 10.0 4.9 14.6

85 65.0 32.5 97.4



#64

n-propylbenzene

Concen: 8.044 ppbv

RT: 15.73 min Scan# 3978

Delta R.T. 0.00 min

Lab File: VL033125.D

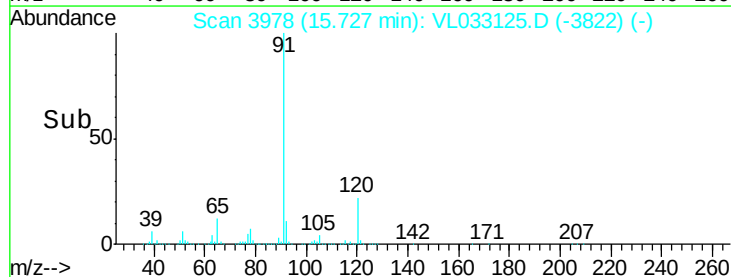
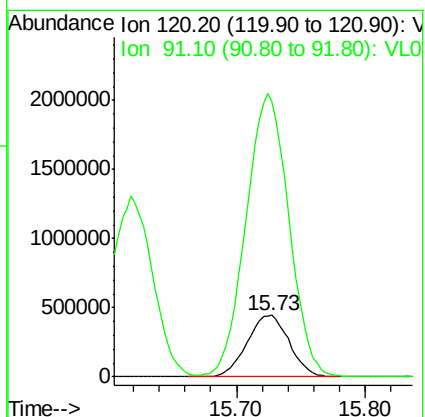
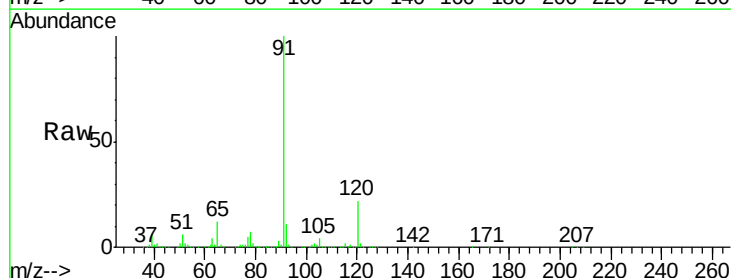
Acq: 29 Jan 2019 2:29

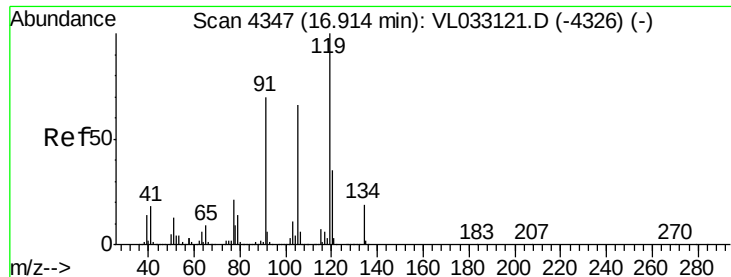
Tgt Ion: 120 Resp: 1019341

Ion	Ratio	Lower	Upper
120	100		
91	467.1	375.7	563.5

120 100

91 467.1 375.7 563.5





#65

tert-Butylbenzene

Concen: 8.061 ppbv

RT: 16.91 min Scan# 4346

Delta R.T. -0.00 min

Lab File: VL033125.D

Acq: 29 Jan 2019 2:29

Instrument :

MSVOA_L

ClientSampleId :

VL0128ABS01

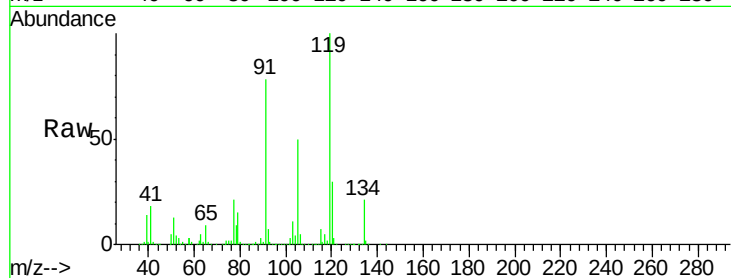
Tgt Ion:119 Resp: 3536487

Ion Ratio Lower Upper

119 100

91 80.0 64.5 96.7

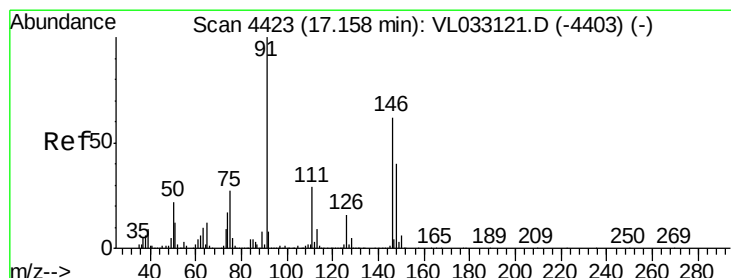
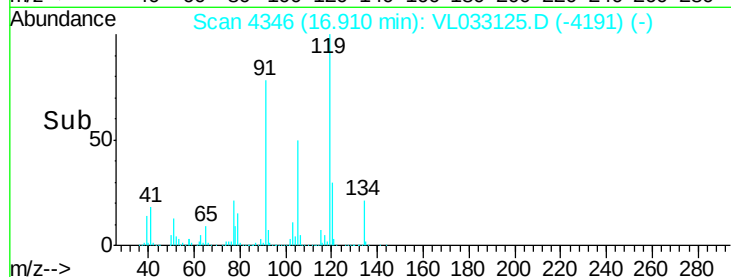
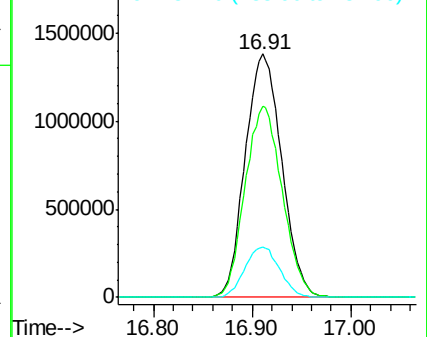
134 19.8 15.7 23.5



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: 8.870 ppbv

RT: 17.16 min Scan# 4423

Delta R.T. -0.00 min

Lab File: VL033125.D

Acq: 29 Jan 2019 2:29

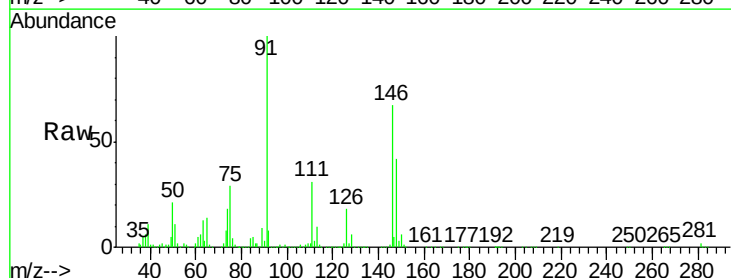
Tgt Ion: 91 Resp: 2094723

Ion Ratio Lower Upper

91 100

126 17.9 14.3 21.5

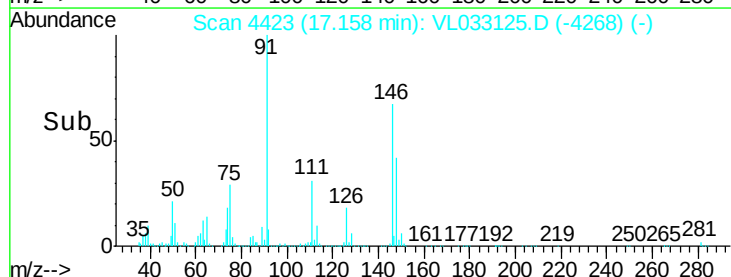
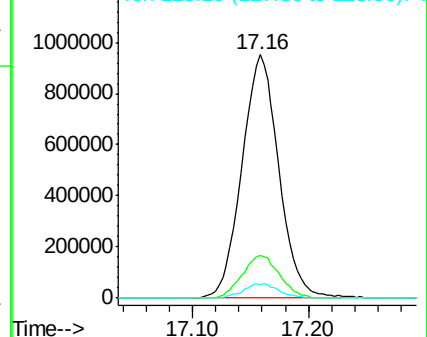
128 5.7 4.6 7.0

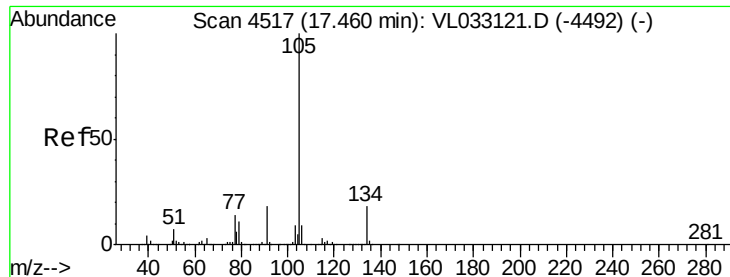


Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 126.10 (125.80 to 126.80): V

Ion 128.10 (127.80 to 128.80): V





#67

sec-Butylbenzene

Concen: 7.856 ppbv

RT: 17.46 min Scan# 4517

Delta R.T. -0.00 min

Lab File: VL033125.D

Acq: 29 Jan 2019 2:29

Instrument :

MSVOA_L

ClientSampleId :

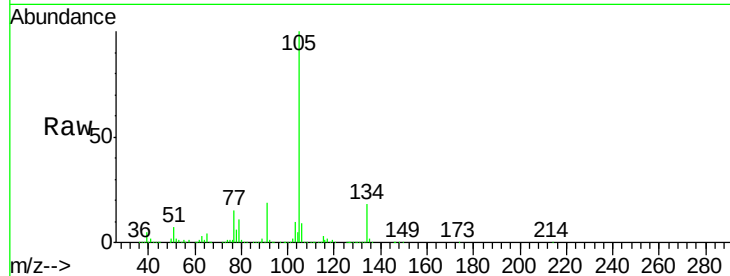
VL0128ABS01

Tgt Ion: 105 Resp: 4946861

Ion Ratio Lower Upper

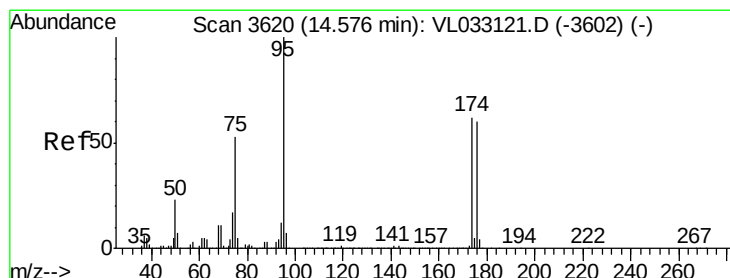
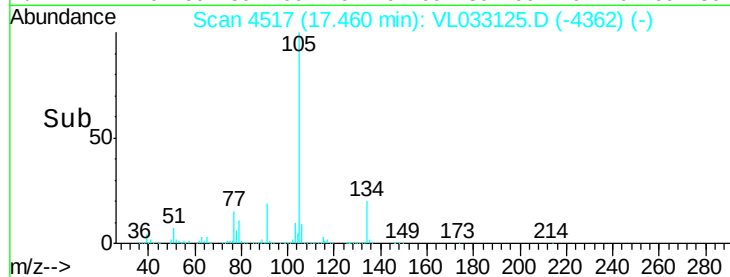
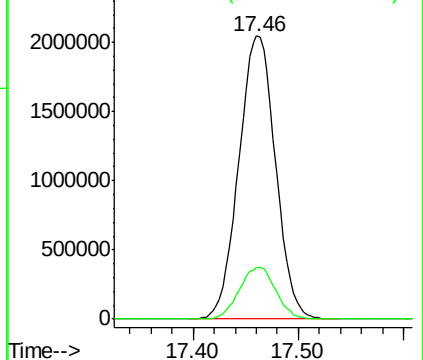
105 100

134 18.3 14.8 22.2



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: 8.071 ppbv

RT: 14.58 min Scan# 3621

Delta R.T. 0.00 min

Lab File: VL033125.D

Acq: 29 Jan 2019 2:29

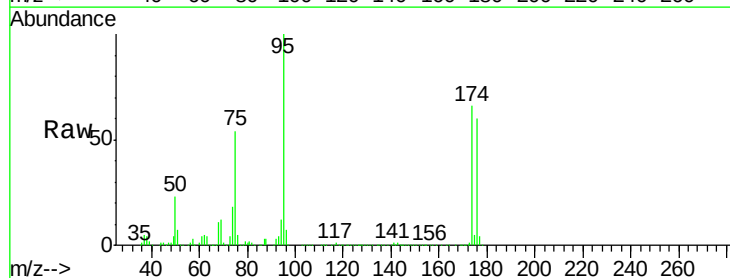
Tgt Ion: 95 Resp: 1987600

Ion Ratio Lower Upper

95 100

174 65.4 51.4 77.2

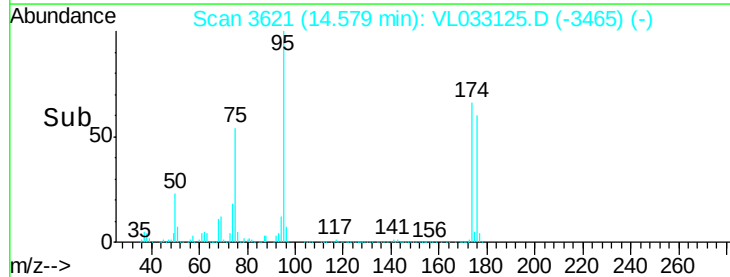
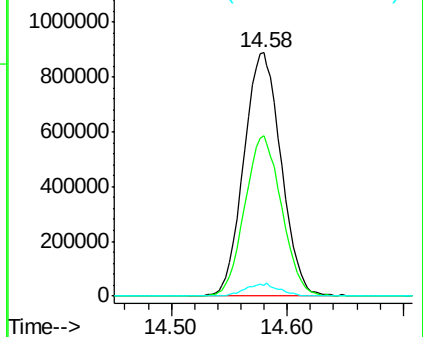
175 4.8 4.0 6.0

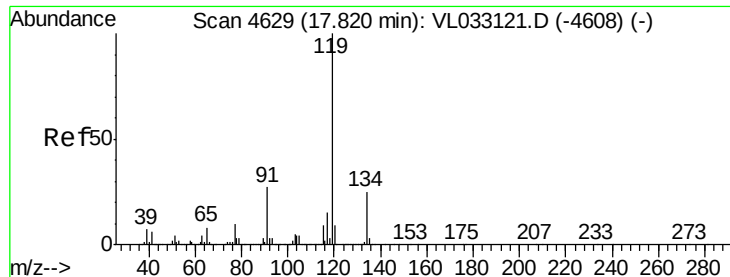


Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V





#69

p-Isopropyltoluene

Concen: 7.580 ppbv

RT: 17.82 min Scan# 4628

Delta R.T. 0.00 min

Lab File: VL033125.D

Acq: 29 Jan 2019 2:29

Instrument :

MSVOA_L

ClientSampleId :

VL0128ABS01

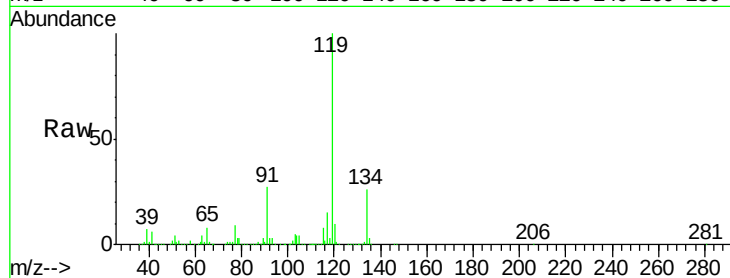
Tgt Ion: 119 Resp: 4075198

Ion Ratio Lower Upper

119 100

134 25.2 20.4 30.6

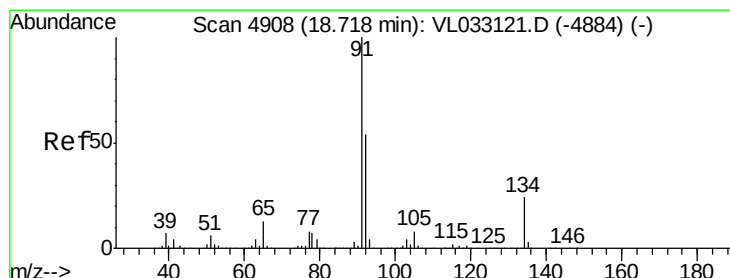
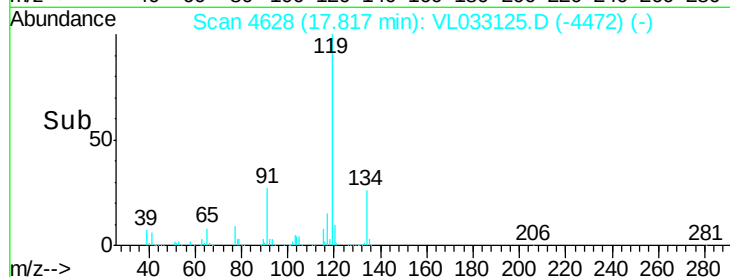
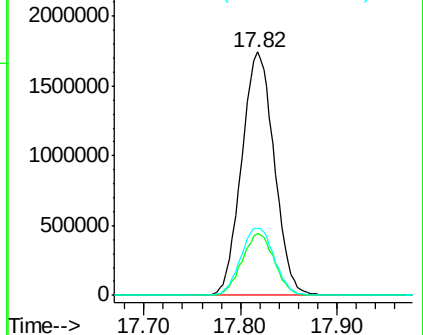
91 28.6 22.8 34.2



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: 8.282 ppbv

RT: 18.71 min Scan# 4907

Delta R.T. -0.00 min

Lab File: VL033125.D

Acq: 29 Jan 2019 2:29

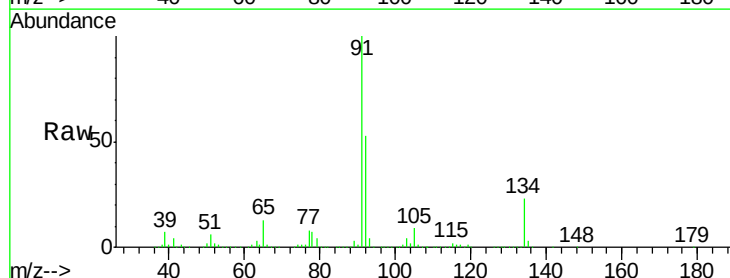
Tgt Ion: 91 Resp: 4044363

Ion Ratio Lower Upper

91 100

92 53.6 43.0 64.6

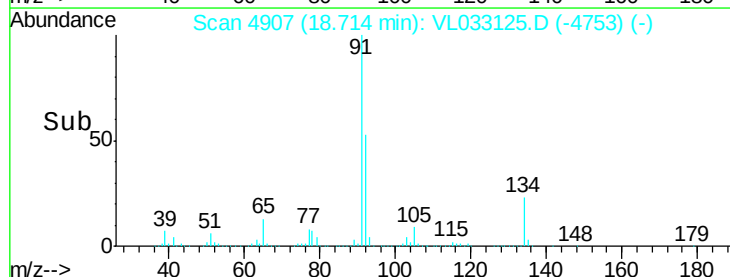
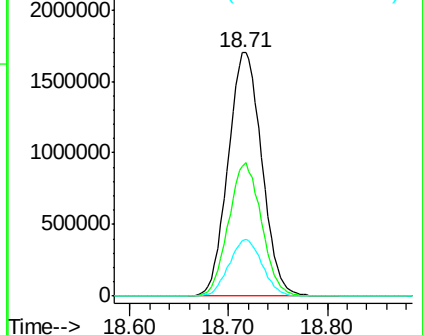
134 22.8 18.4 27.6

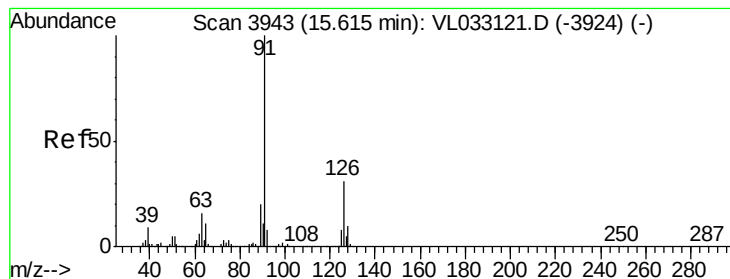


Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0

Ion 134.20 (133.90 to 134.90): V





#71

2-Chlorotoluene

Concen: 8.185 ppbv

RT: 15.62 min Scan# 3944

Delta R.T. -0.00 min

Lab File: VL033125.D

Acq: 29 Jan 2019 2:29

Instrument :

MSVOA_L

ClientSampleId :

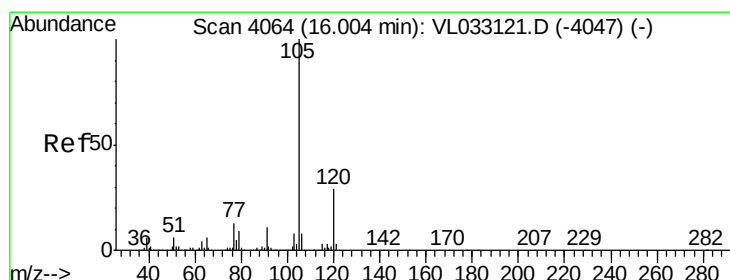
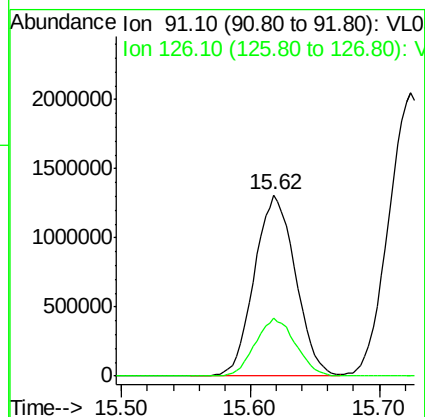
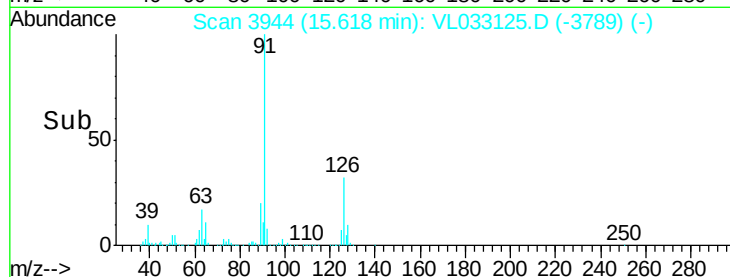
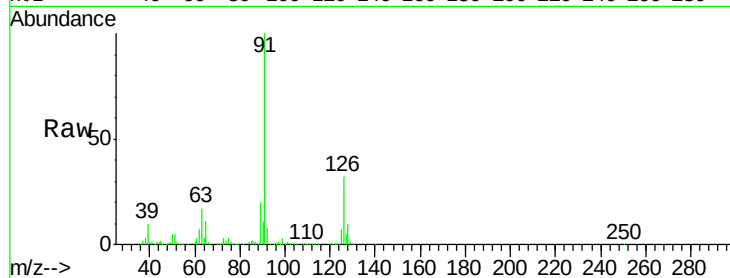
VL0128ABS01

Tgt Ion: 91 Resp: 2914381

Ion Ratio Lower Upper

91 100

126 31.3 12.4 49.8



#72

4-Ethyltoluene

Concen: 8.373 ppbv

RT: 16.00 min Scan# 4063

Delta R.T. -0.00 min

Lab File: VL033125.D

Acq: 29 Jan 2019 2:29

Tgt Ion: 105 Resp: 3246858

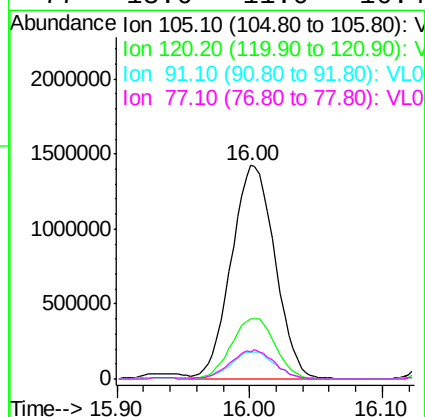
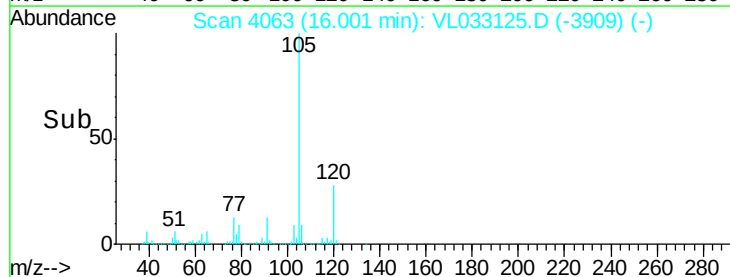
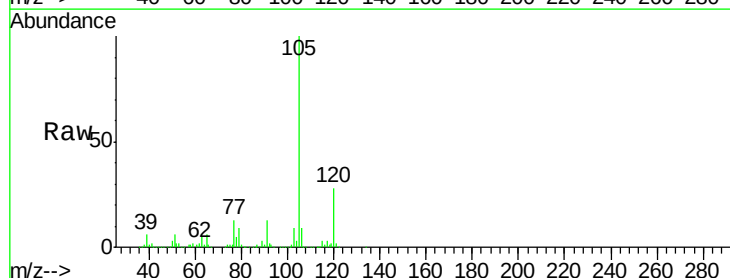
Ion Ratio Lower Upper

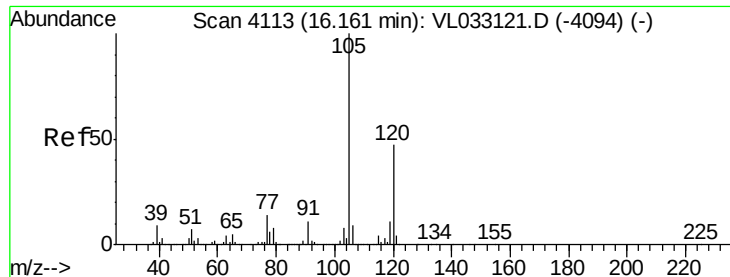
105 100

120 29.6 23.5 35.3

91 12.8 10.3 15.5

77 13.6 11.0 16.4

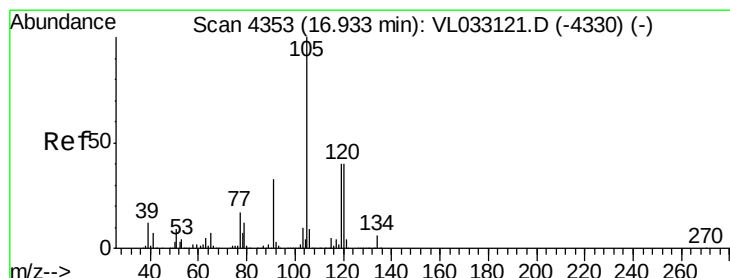
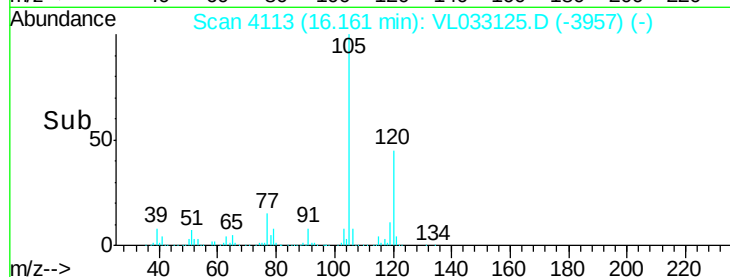
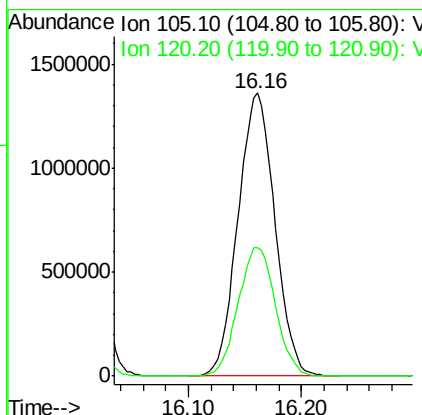
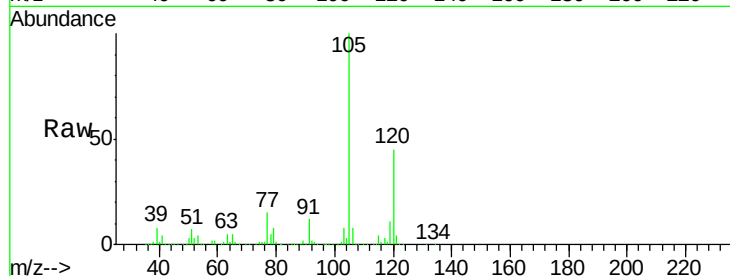




#73
 1,3,5-Trimethylbenzene
 Concen: 8.105 ppbv
 RT: 16.16 min Scan# 4113
 Delta R.T. 0.00 min
 Lab File: VL033125.D
 Acq: 29 Jan 2019 2:29

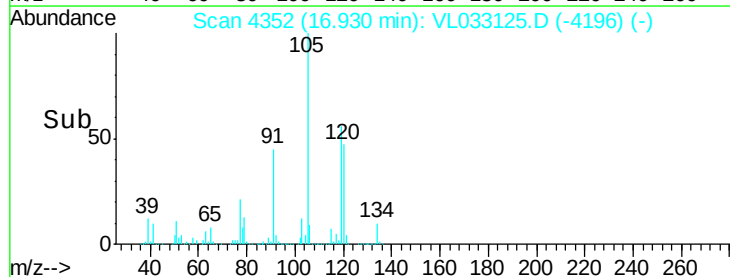
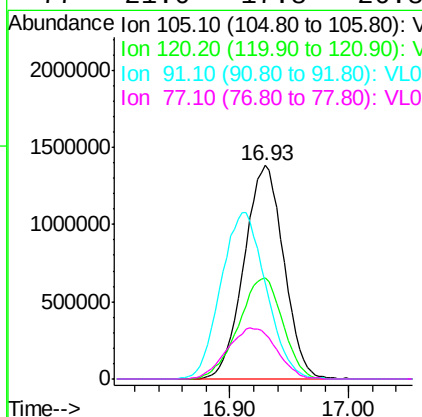
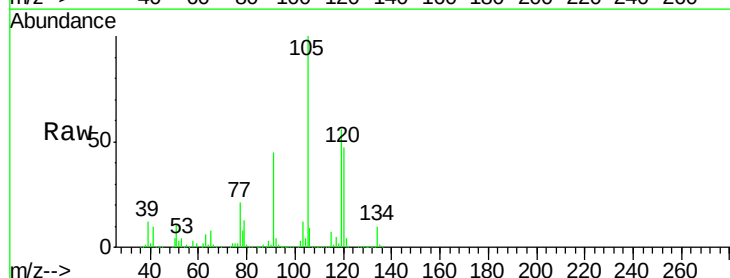
Instrument :
 MSVOA_L
 ClientSampleId :
 VL0128ABS01

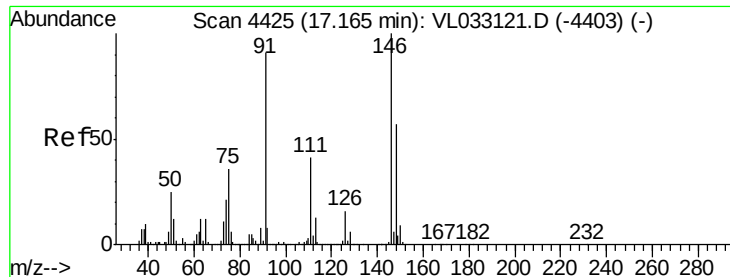
Tgt Ion:105 Resp: 3074076
 Ion Ratio Lower Upper
 105 100
 120 45.4 37.5 56.3



#74
 1,2,4-Trimethylbenzene
 Concen: 7.949 ppbv
 RT: 16.93 min Scan# 4352
 Delta R.T. 0.00 min
 Lab File: VL033125.D
 Acq: 29 Jan 2019 2:29

Tgt Ion:105 Resp: 3192874
 Ion Ratio Lower Upper
 105 100
 120 46.9 37.9 56.9
 91 44.8 39.8 59.8
 77 21.0 17.8 26.8

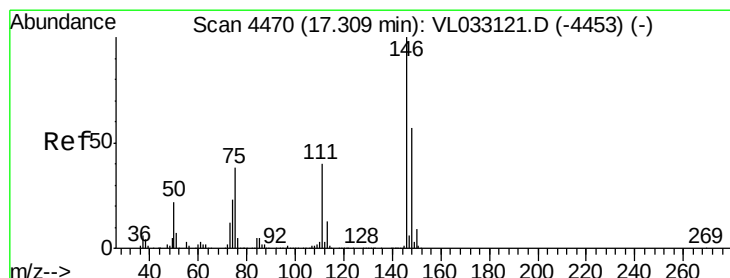
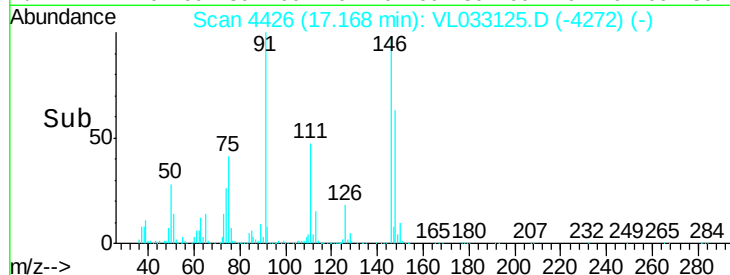
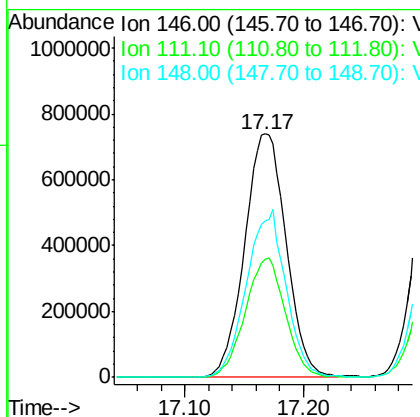
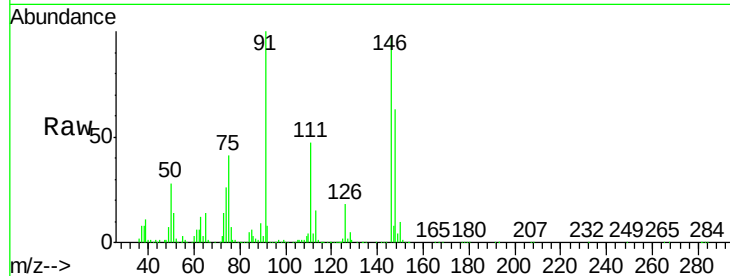




#75
 1,3-Dichlorobenzene
 Concen: 7.357 ppbv
 RT: 17.17 min Scan# 4426
 Delta R.T. -0.00 min
 Lab File: VL033125.D
 Acq: 29 Jan 2019 2:29

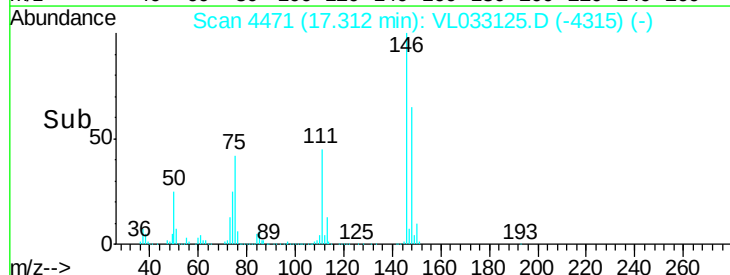
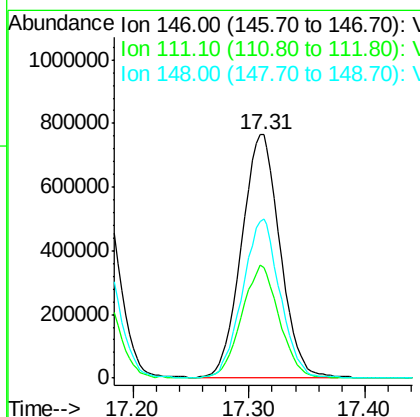
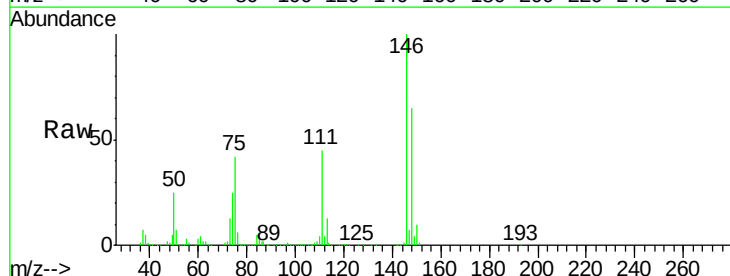
Instrument :
 MSVOA_L
 ClientSampleId :
 VL0128ABS01

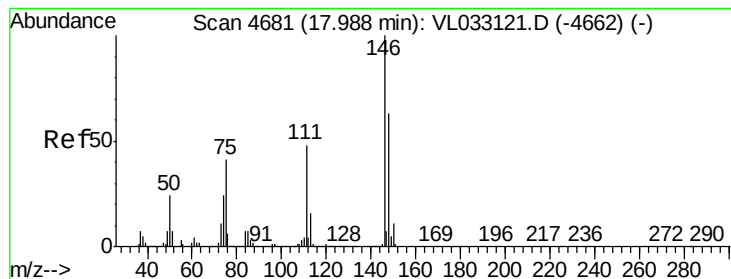
Tgt Ion:146 Resp: 1784790
 Ion Ratio Lower Upper
 146 100
 111 47.4 23.4 70.0
 148 65.2 32.1 96.3



#76
 1,4-Dichlorobenzene
 Concen: 7.822 ppbv
 RT: 17.31 min Scan# 4471
 Delta R.T. 0.00 min
 Lab File: VL033125.D
 Acq: 29 Jan 2019 2:29

Tgt Ion:146 Resp: 1749060
 Ion Ratio Lower Upper
 146 100
 111 45.8 22.7 68.0
 148 64.4 32.1 96.3





#77

1,2-Dichlorobenzene

Concen: 7.046 ppbv

RT: 17.99 min Scan# 4682

Delta R.T. -0.00 min

Lab File: VL033125.D

Acq: 29 Jan 2019 2:29

Instrument :

MSVOA_L

ClientSampleId :

VL0128ABS01

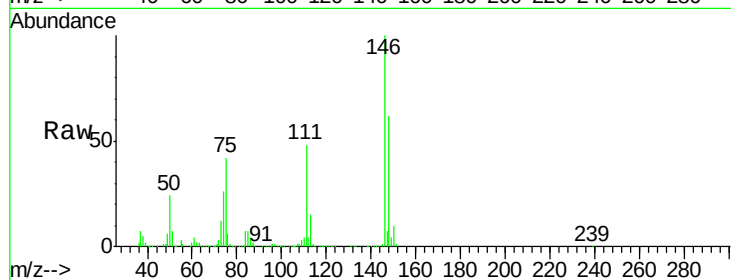
Tgt Ion:146 Resp: 1718266

Ion Ratio Lower Upper

146 100

111 48.3 24.4 73.2

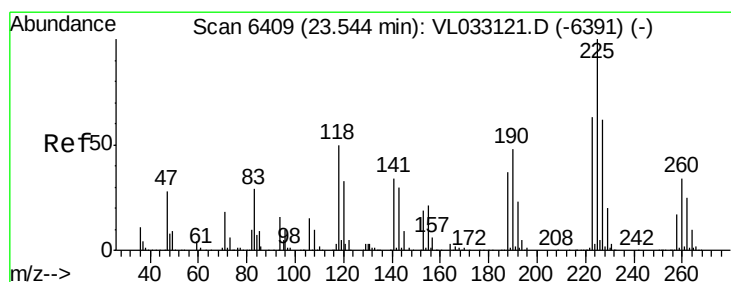
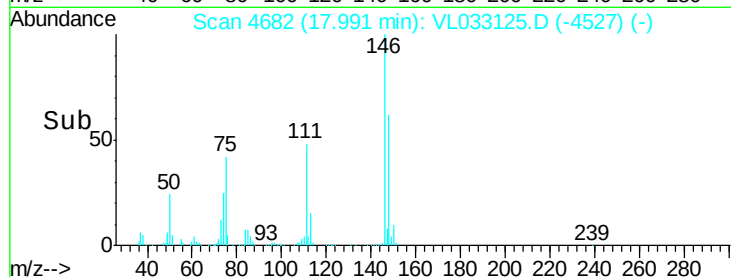
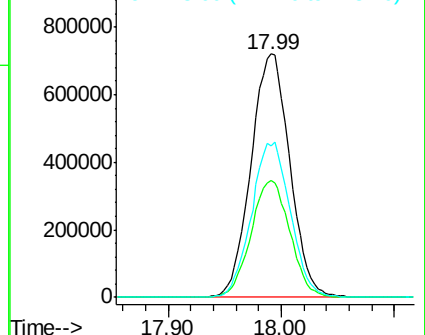
148 63.9 32.6 97.7



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: 5.927 ppbv

RT: 23.54 min Scan# 6408

Delta R.T. -0.01 min

Lab File: VL033125.D

Acq: 29 Jan 2019 2:29

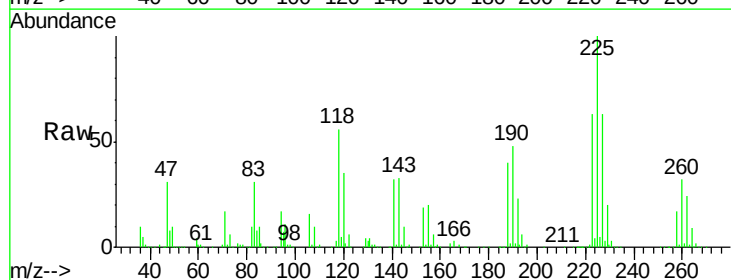
Tgt Ion:225 Resp: 846684

Ion Ratio Lower Upper

225 100

223 63.8 50.5 75.7

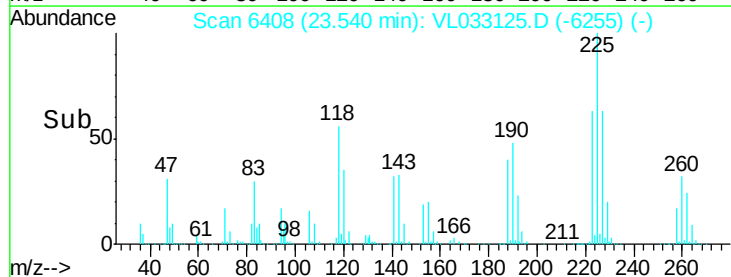
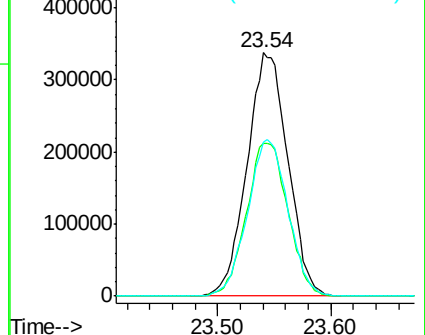
227 63.8 51.0 76.4

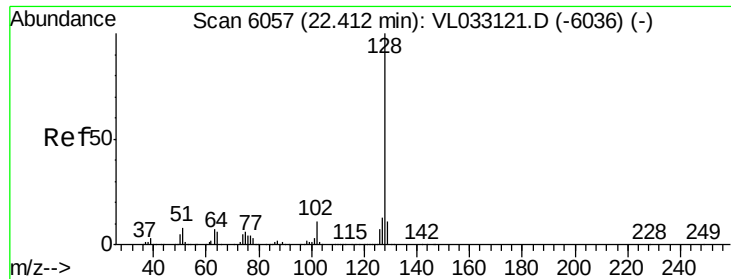


Abundance Ion 224.90 (224.60 to 225.60): V

Ion 222.90 (222.60 to 223.60): V

Ion 226.90 (226.60 to 227.60): V





#79

Naphthalene

Concen: 10.267 ppbv

RT: 22.42 min Scan# 6058

Delta R.T. -0.00 min

Lab File: VL033125.D

Acq: 29 Jan 2019 2:29

Instrument :

MSVOA_L

ClientSampleId :

VL0128ABS01

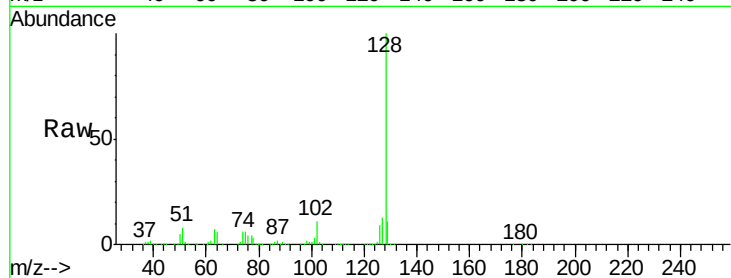
Tgt Ion:128 Resp: 2537181

Ion Ratio Lower Upper

128 100

127 13.0 10.6 15.8

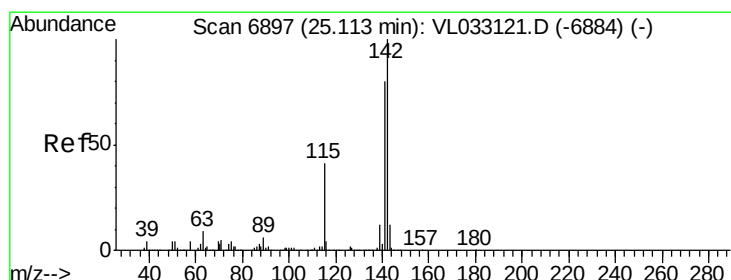
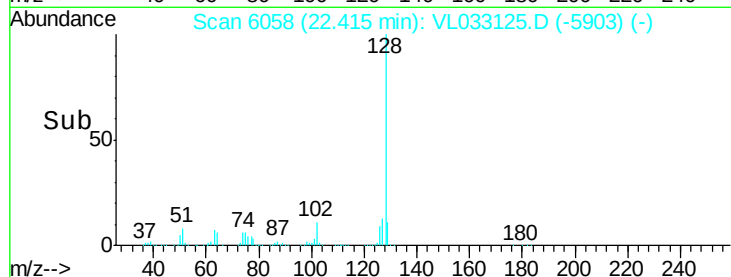
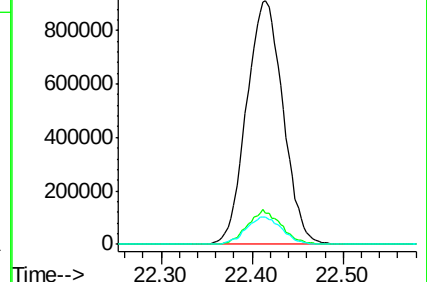
129 11.1 9.2 13.8



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: 12.073 ppbv

RT: 25.12 min Scan# 6898

Delta R.T. -0.00 min

Lab File: VL033125.D

Acq: 29 Jan 2019 2:29

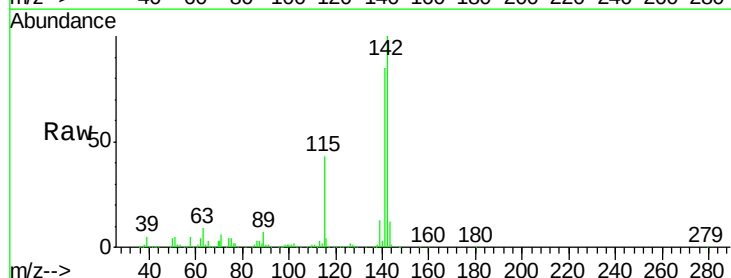
Tgt Ion:142 Resp: 744851

Ion Ratio Lower Upper

142 100

141 84.4 67.4 101.2

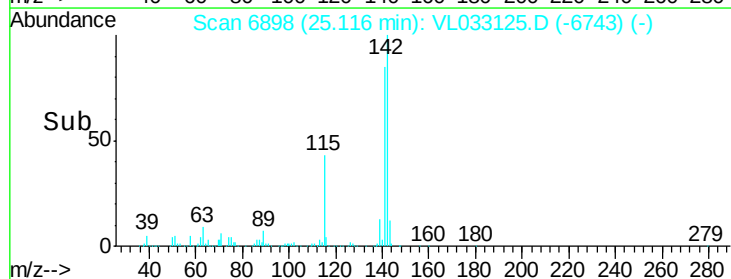
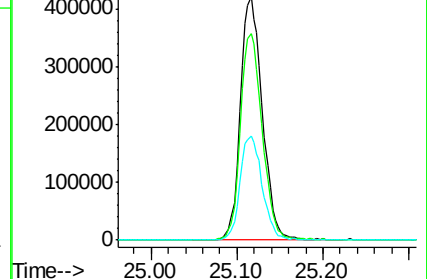
115 43.7 34.9 52.3

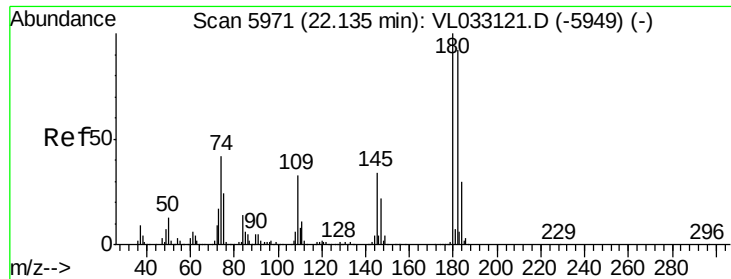


Abundance Ion 142.00 (141.70 to 142.70): V

Ion 141.00 (140.70 to 141.70): V

Ion 115.00 (114.70 to 115.70): V





#81
 1,2,4-Trichlorobenzene
 Concen: 9.683 ppbv
 RT: 22.14 min Scan# 5971
 Delta R.T. -0.00 min
 Lab File: VL033125.D
 Acq: 29 Jan 2019 2:29

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0128ABS01

Tgt Ion:180 Resp: 1219373
 Ion Ratio Lower Upper
 180 100
 182 96.0 76.5 114.7
 184 30.2 24.2 36.4

