

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL080519\
 Data File : VL034093.D
 Acq On : 5 Aug 2019 18:07
 Operator : SY/AP
 Sample : VSTDICV010
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL080519

Quant Time: Aug 20 02:20:53 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	1142433	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.25	114	2368513	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.18	117	2995162	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.52	95	2028585	8.35	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	83.50%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	3.05	85	1356350	9.647 ppbv	98
3) Chlorodifluoromethane	2.98	51	1080948	8.182 ppbv	100
4) Chloromethane	3.14	50	701569	8.237 ppbv	98
5) Vinyl Chloride	3.26	62	633243	8.439 ppbv	100
6) Bromomethane	3.48	94	332282	8.569 ppbv	92
7) Chloroethane	3.57	64	229829	8.175 ppbv	98
8) Dichlorotetrafluoroethane	3.19	85	1310218	8.078 ppbv	98
9) Propene	3.01	41	638384	8.197 ppbv	98
10) Heptane	8.19	43	1647287	8.177 ppbv	99
11) Trichlorofluoromethane	3.97	101	1348264	8.088 ppbv	99
12) 1,1,2-Trichlorotrifluoroet	4.51	101	952010	8.094 ppbv	97
13) Ethanol	3.62	45	109536	4.990 ppbv	95
14) Bromoethene	3.75	108	434368	8.269 ppbv	98
15) Acetone	3.87	43	1159812	7.104 ppbv	100
16) 1,3-Butadiene	3.33	39	659383	8.306 ppbv	99
17) tert-Butyl alcohol	4.32	59	1229490	8.071 ppbv	99
18) 1,1-Dichloroethene	4.31	96	445820	8.014 ppbv	96
19) Isopropyl Alcohol	3.99	45	935887	7.363 ppbv	98
20) Methylene Chloride	4.37	84	393380	8.035 ppbv	96
21) Allyl Chloride	4.44	41	916809	8.114 ppbv	98
22) trans-1,2-Dichloroethene	4.92	96	438414	8.110 ppbv	97
23) Vinyl Acetate	5.11	43	2138558	7.901 ppbv	99
24) 1,1-Dichloroethane	5.05	63	1296495	8.050 ppbv	99
25) Ethyl Acetate	5.72	43	2509137	7.814 ppbv	100
26) Hexane	5.73	57	1084996	7.972 ppbv	98
27) Carbon Disulfide	4.58	76	1204480	8.394 ppbv	99
28) Methyl tert-Butyl Ether	5.07	73	1814130	7.970 ppbv	99
29) Chloroform	5.80	83	1519616	8.213 ppbv	99
30) Cyclohexane	7.20	84	903927	8.407 ppbv	97
31) cis-1,2-Dichloroethene	5.60	61	1094665	8.142 ppbv	99
32) 1,1,1-Trichloroethane	6.57	97	1468948	8.022 ppbv	100
34) 2-Butanone	5.29	43	1739650	7.900 ppbv	99
35) Carbon Tetrachloride	7.08	117	1432975	7.883 ppbv	96
36) Benzene	6.96	78	2153490	8.000 ppbv	98
37) 1,2-Dichloroethane	6.36	62	1185199	8.183 ppbv	99
38) Trichloroethene	7.91	130	741454	7.112 ppbv	97
39) 1,2-Dichloropropane	7.69	63	890563	8.199 ppbv	98
40) 1,4-Dioxane	7.90	88	308750	7.533 ppbv	# 99
41) Tetrahydrofuran	6.10	42	1109031	8.187 ppbv	99
42) Bromodichloromethane	7.87	83	1677022	8.259 ppbv	98
43) Methyl Methacrylate	8.08	69	908240	8.225 ppbv	100

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.94	57	3704737	7.686	ppbv	99
45) t-1,3-Dichloropropene	9.36	75	1193300	8.525	ppbv	99
46) cis-1,3-Dichloropropene	8.79	75	1349425	8.353	ppbv	96
47) 1,1,2-Trichloroethane	9.56	97	855181	8.235	ppbv	98
48) Dibromochloromethane	10.40	129	1359708	8.166	ppbv	99
49) Bromoform	13.15	173	1227641	8.246	ppbv	99
50) 4-Methyl-2-Pentanone	8.82	43	2628764	7.844	ppbv	99
51) 2-Hexanone	10.22	43	2248930	7.985	ppbv #	99
52) Tetrachloroethene	11.32	164	730784	7.029	ppbv	97
53) Toluene	9.89	91	2461085	7.922	ppbv	100
54) 1,2-Dibromoethane	10.70	107	1281549	8.146	ppbv	99
56) 1,1,1,2-Tetrachloroethane	12.22	131	903091	6.595	ppbv	94
57) Chlorobenzene	12.25	112	1732817	6.424	ppbv	98
58) Ethyl Benzene	12.81	91	3246890	6.447	ppbv	99
59) m/p-Xylene	13.09	91	2389532	5.911	ppbv #	20
60) o-Xylene	13.79	91	2573650	6.370	ppbv	100
61) Styrene	13.63	104	2150007	6.705	ppbv	99
62) Isopropylbenzene	14.77	105	3413818	6.295	ppbv	100
63) 1,1,2,2-Tetrachloroethane	13.78	83	1828810	6.267	ppbv	100
64) n-propylbenzene	15.67	120	936279	6.532	ppbv	97
65) tert-Butylbenzene	16.85	119	2998539	6.207	ppbv	99
66) Benzyl Chloride	17.10	91	1847132	6.908	ppbv	99
67) sec-Butylbenzene	17.40	105	4201255	6.162	ppbv	100
69) p-Isopropyltoluene	17.76	119	3493154	6.212	ppbv	99
70) n-Butylbenzene	18.66	91	3866318	6.374	ppbv	100
71) 2-Chlorotoluene	15.56	91	2809616	6.443	ppbv	99
72) 4-Ethyltoluene	15.95	105	3097031	6.513	ppbv	99
73) 1,3,5-Trimethylbenzene	16.10	105	2940857	6.429	ppbv	99
74) 1,2,4-Trimethylbenzene	16.88	105	2949326	6.198	ppbv	93
75) 1,3-Dichlorobenzene	17.11	146	1708881	6.412	ppbv	100
76) 1,4-Dichlorobenzene	17.25	146	1763804	6.477	ppbv	99
77) 1,2-Dichlorobenzene	17.93	146	1718676	6.541	ppbv	100
78) Hexachloro-1,3-Butadiene	23.49	225	1463497	7.026	ppbv	99
79) Naphthalene	22.34	128	2992751	6.056	ppbv	99
80) Naphthalene, 2-methyl-	25.06	142	1341224	8.654	ppbv	97
81) 1,2,4-Trichlorobenzene	22.07	180	1702984	6.208	ppbv	100

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

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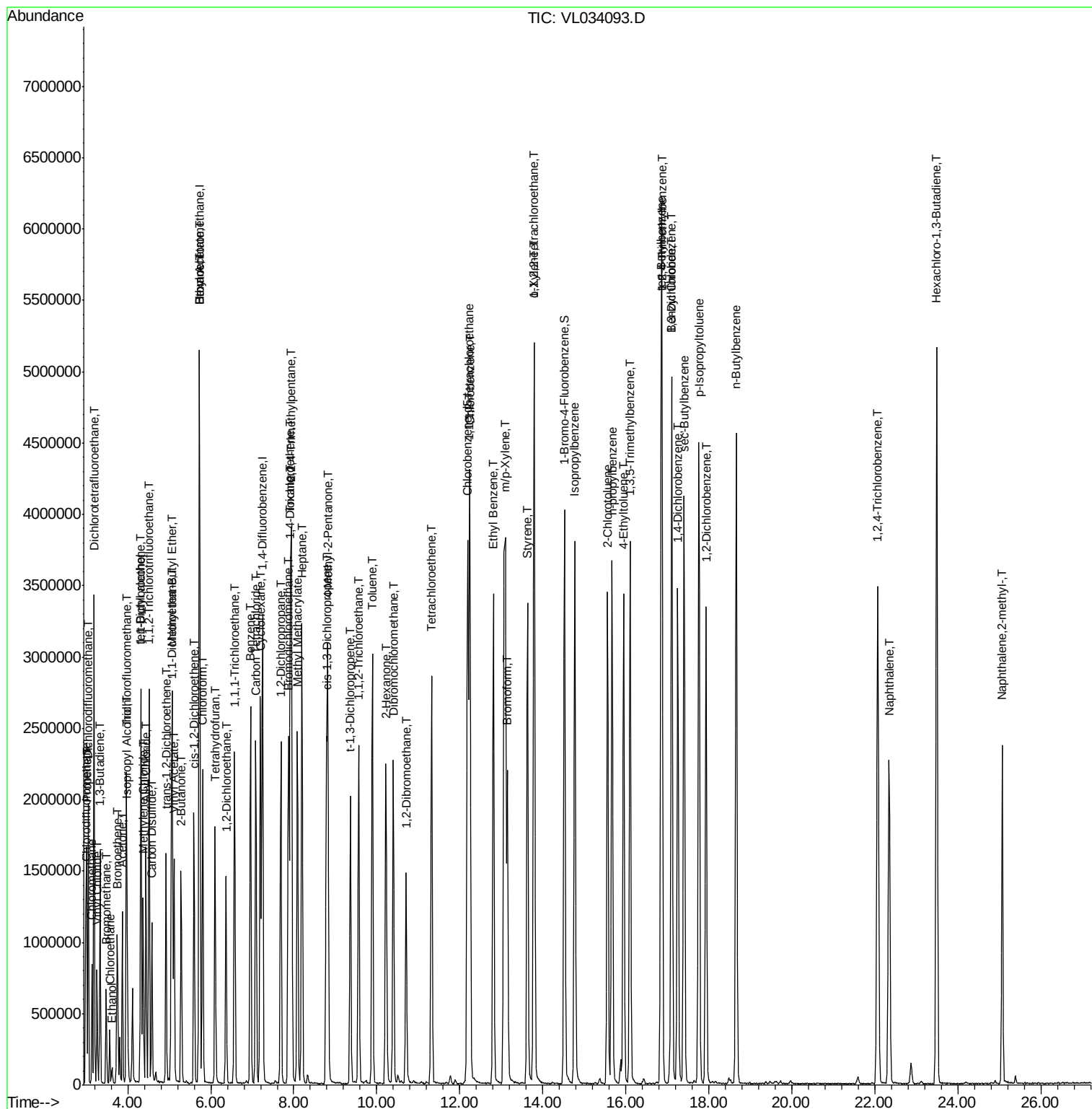
Quant Time: Aug 20 02:20:53 2019

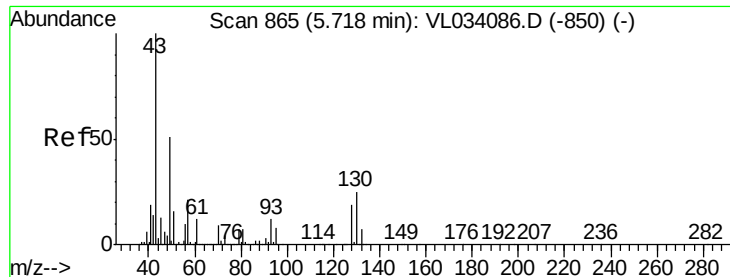
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL080519AIR.M

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QLast Update : Mon Aug 05 17:09:48 2019

Response via : Initial Calibration

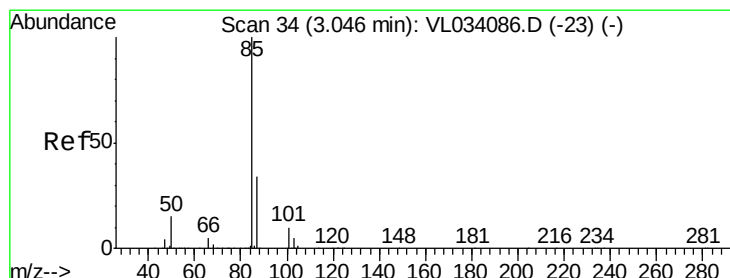
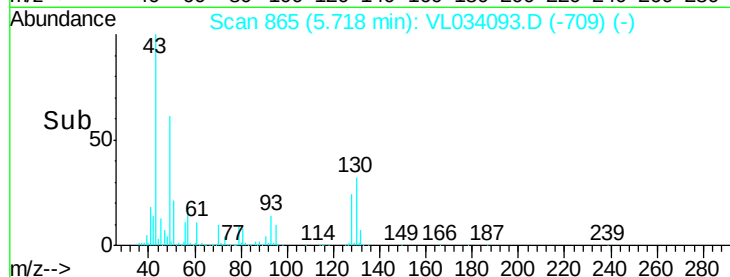
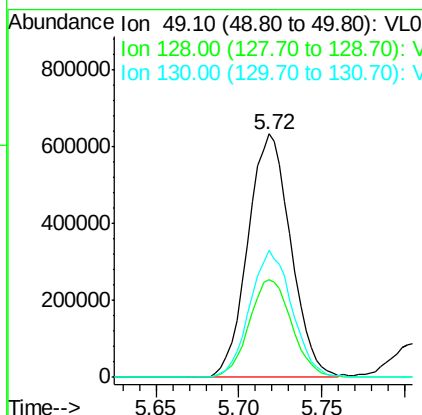
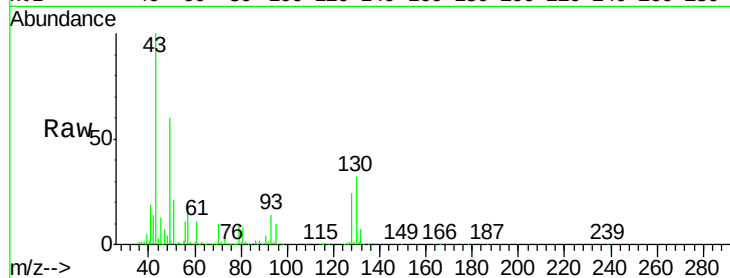




#1
 Bromochloromethane
 Concen: 10.000 ppbv
 RT: 5.72 min Scan# 865
 Delta R.T. 0.00 min
 Lab File: VL034093.D
 Acq: 5 Aug 2019 18:07

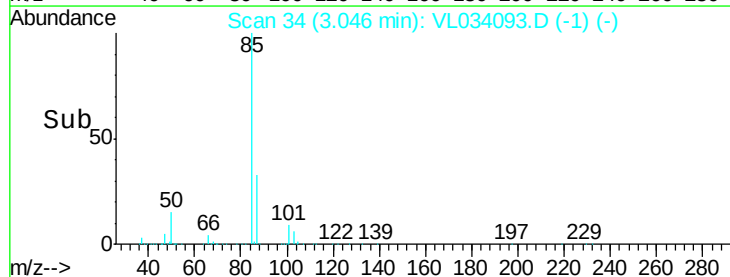
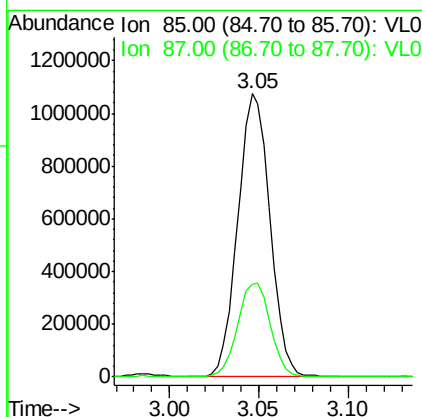
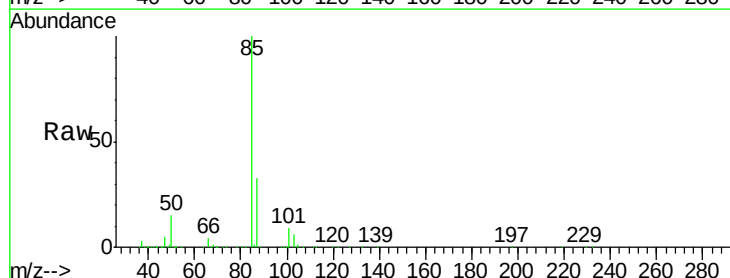
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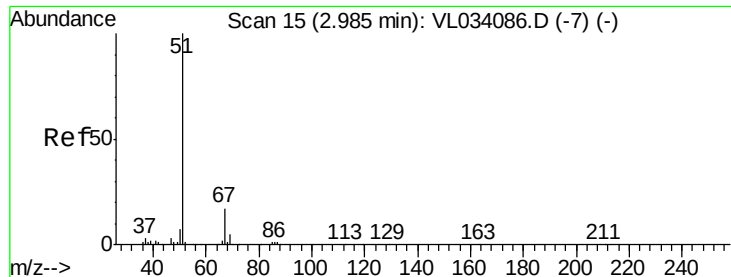
Tot Ion: 49 Resp: 1142433
 Ion Ratio Lower Upper
 49 100
 128 40.1 19.5 58.5
 130 51.7 25.4 76.0



#2
 Dichlorodifluoromethane
 Concen: 9.647 ppbv
 RT: 3.05 min Scan# 34
 Delta R.T. 0.00 min
 Lab File: VL034093.D
 Acq: 5 Aug 2019 18:07

Tgt Ion: 85 Resp: 1356350
 Ion Ratio Lower Upper
 85 100
 87 32.8 27.1 40.7





#3

Chlorodifluoromethane

Concen: 8.182 ppbv

RT: 2.98 min Scan# 15

Delta R.T. 0.00 min

Lab File: VL034093.D

Acq: 5 Aug 2019 18:07

Instrument :

MSVOA_L

ClientSampleId :

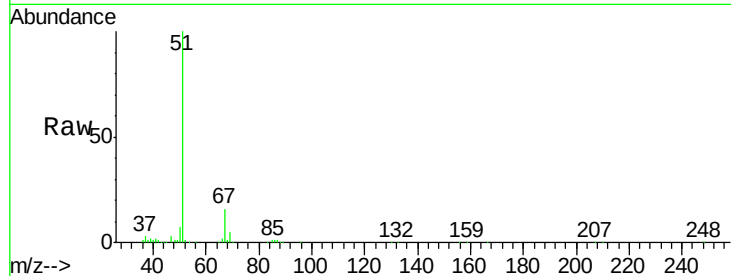
ICVVL080519

Tot Ion: 51 Resp: 1080948

Ion Ratio Lower Upper

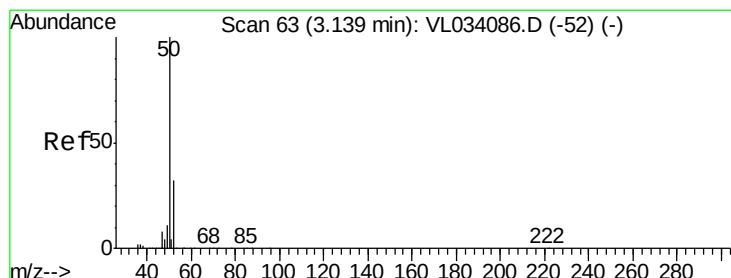
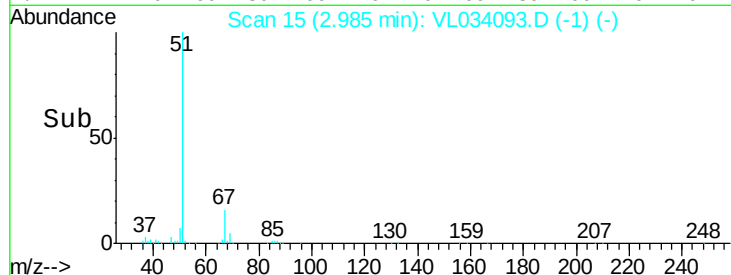
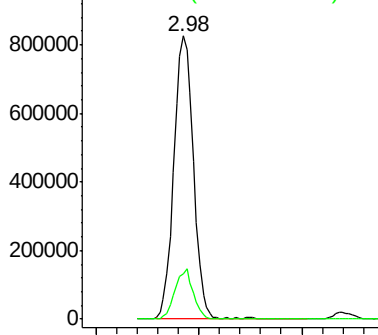
51 100

67 16.7 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: 8.237 ppbv

RT: 3.14 min Scan# 63

Delta R.T. 0.00 min

Lab File: VL034093.D

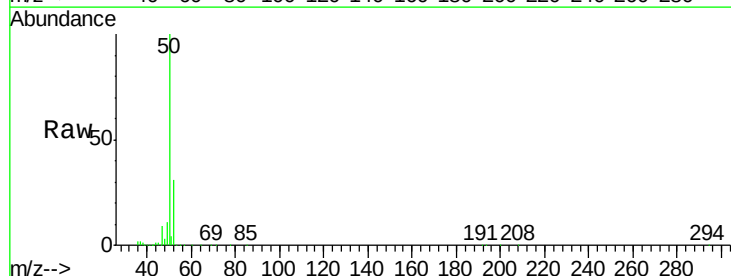
Acq: 5 Aug 2019 18:07

Tgt Ion: 50 Resp: 701569

Ion Ratio Lower Upper

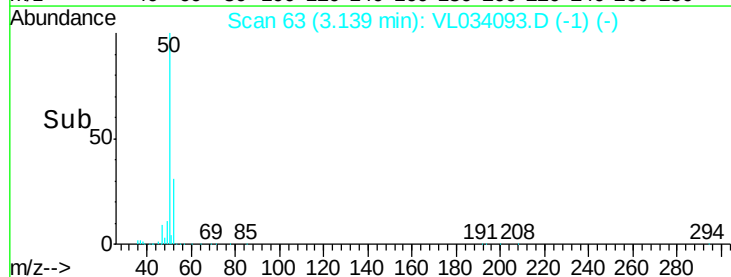
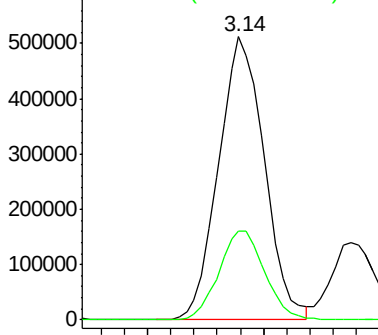
50 100

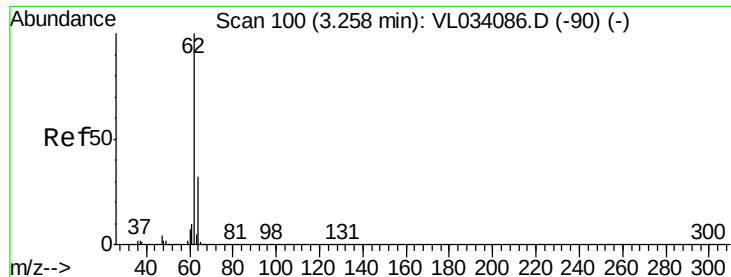
52 31.2 25.7 38.5



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#5

Vinyl Chloride

Concen: 8.439 ppbv

RT: 3.26 min Scan# 101

Delta R.T. 0.00 min

Lab File: VL034093.D

Acq: 5 Aug 2019 18:07

Instrument :

MSVOA_L

ClientSampleId :

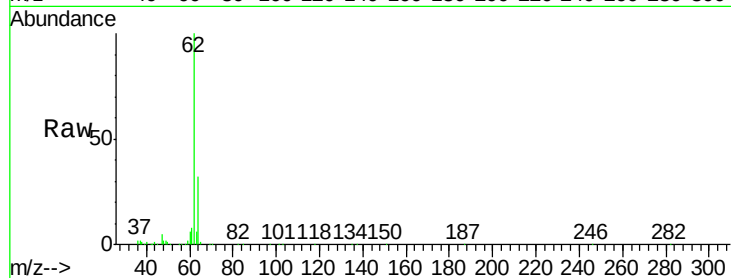
ICVVL080519

Tot Ion: 62 Resp: 633243

Ion Ratio Lower Upper

62 100

64 32.4 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

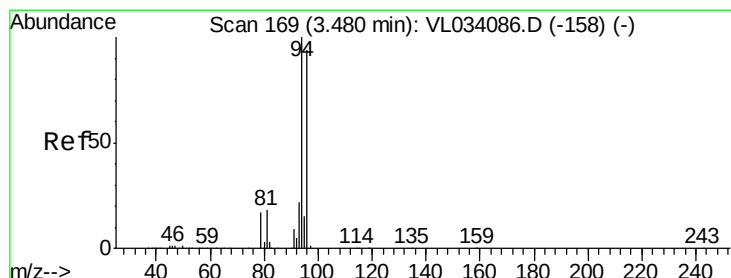
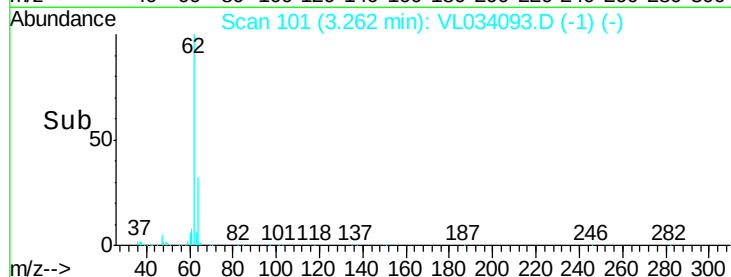
200000

100000

0

Time-->

3.20 3.25 3.30



#6

Bromomethane

Concen: 8.569 ppbv

RT: 3.48 min Scan# 169

Delta R.T. 0.00 min

Lab File: VL034093.D

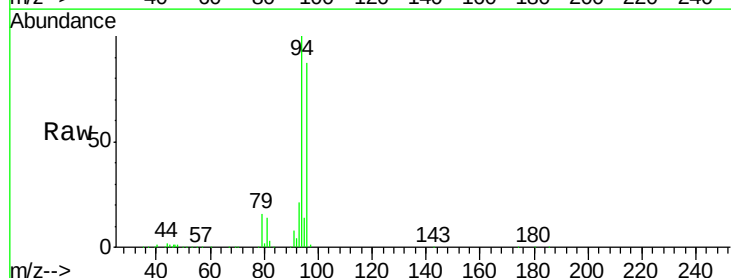
Acq: 5 Aug 2019 18:07

Tgt Ion: 94 Resp: 332282

Ion Ratio Lower Upper

94 100

96 86.6 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

250000

200000

150000

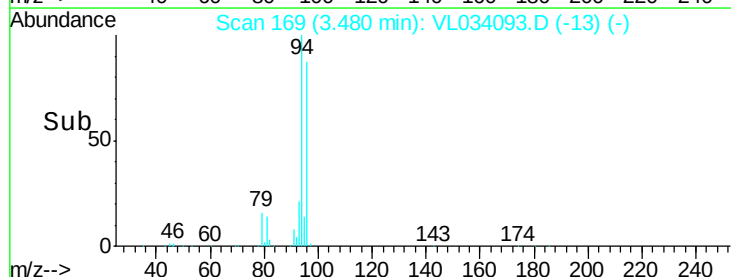
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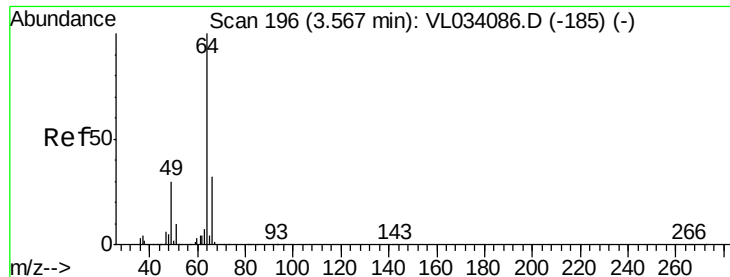
50000

0

Time-->

3.45 3.50 3.55





#7

Chloroethane

Concen: 8.175 ppbv

RT: 3.57 min Scan# 196

Delta R.T. 0.00 min

Lab File: VL034093.D

Acq: 5 Aug 2019 18:07

Instrument :

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ClientSampleId :

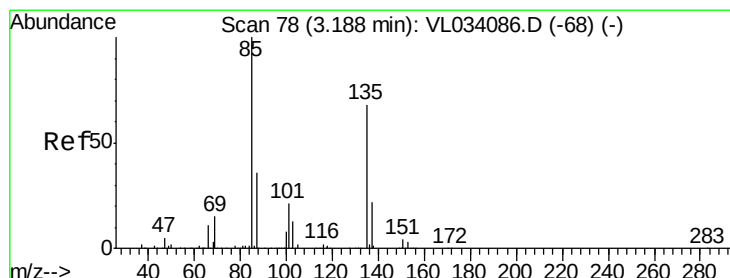
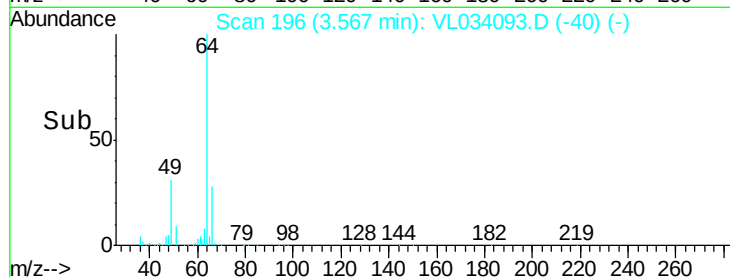
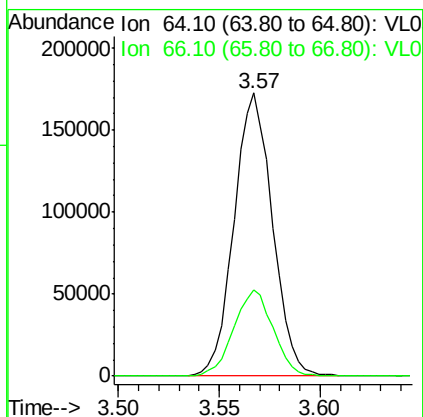
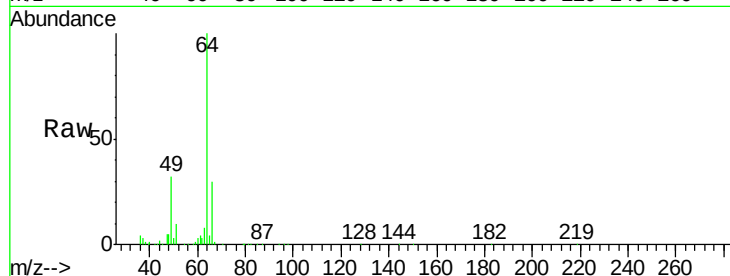
ICVVL080519

Tot Ion: 64 Resp: 229829

Ion Ratio Lower Upper

64 100

66 30.4 25.2 37.8



#8

Dichlorotetrafluoroethane

Concen: 8.078 ppbv

RT: 3.19 min Scan# 78

Delta R.T. 0.00 min

Lab File: VL034093.D

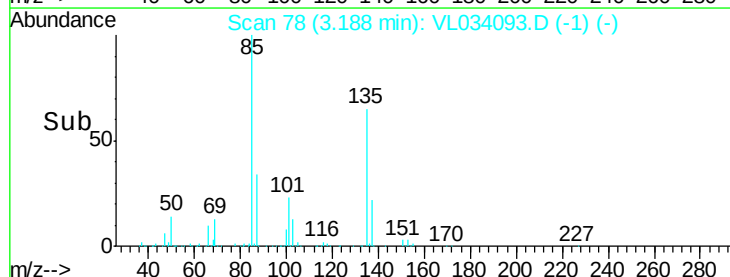
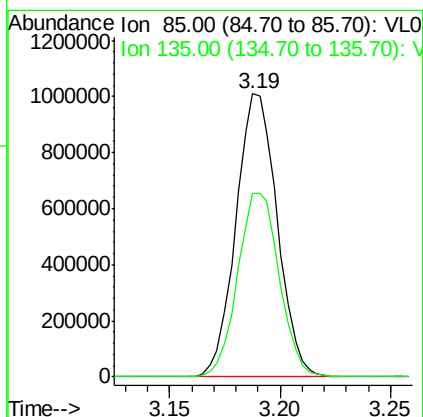
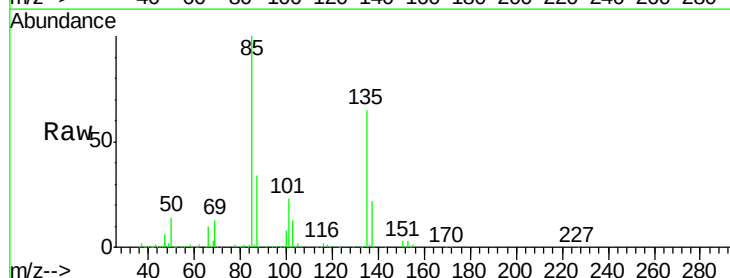
Acq: 5 Aug 2019 18:07

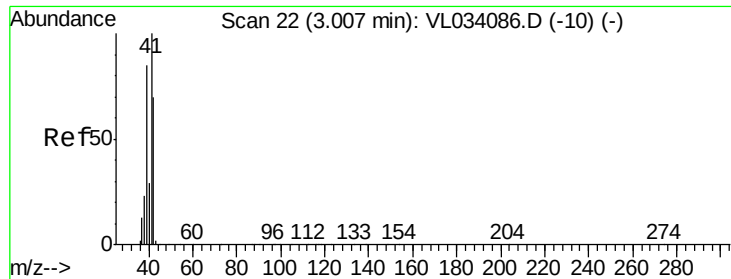
Tgt Ion: 85 Resp: 1310218

Ion Ratio Lower Upper

85 100

135 65.6 54.0 81.0





#9

Propene

Concen: 8.197 ppbv

RT: 3.01 min Scan# 22

Delta R.T. 0.00 min

Lab File: VL034093.D

Acq: 5 Aug 2019 18:07

Instrument :

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ClientSampleId :

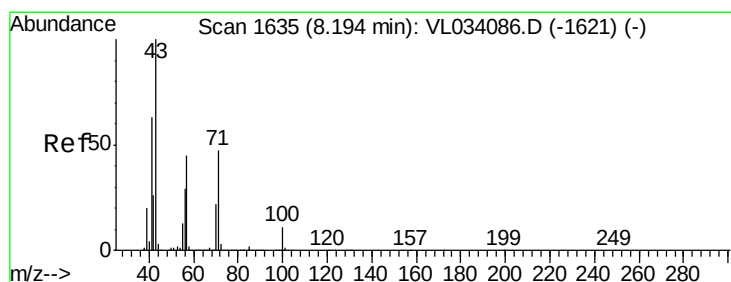
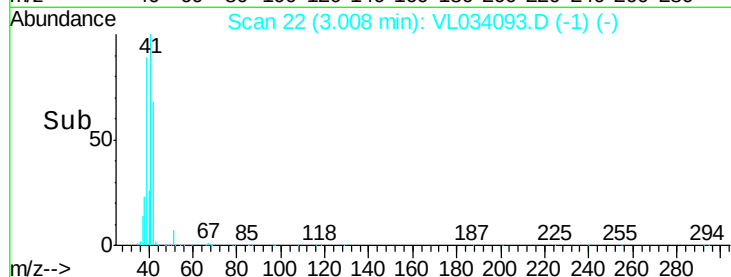
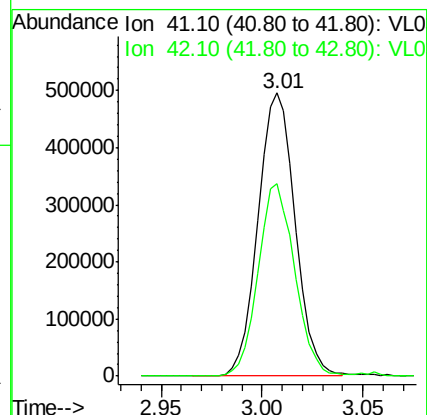
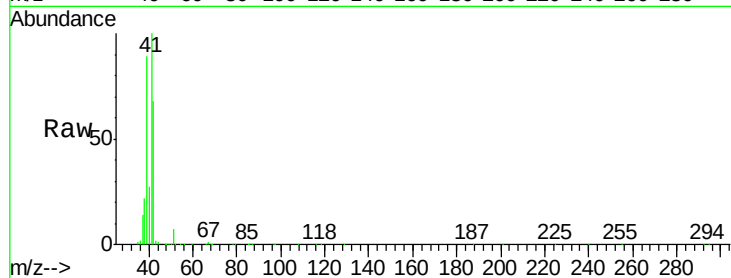
ICVVL080519

Tot Ion: 41 Resp: 638384

Ion Ratio Lower Upper

41 100

42 68.2 55.8 83.6



#10

Heptane

Concen: 8.177 ppbv

RT: 8.19 min Scan# 1635

Delta R.T. 0.00 min

Lab File: VL034093.D

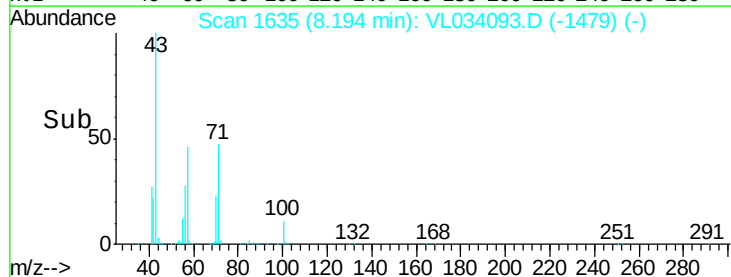
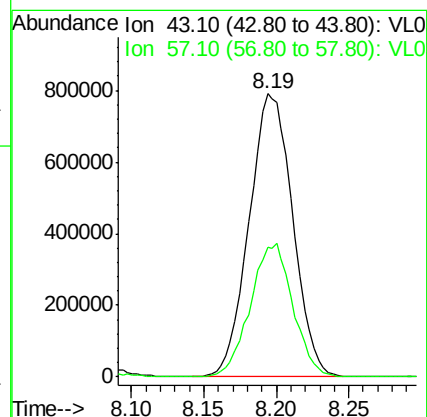
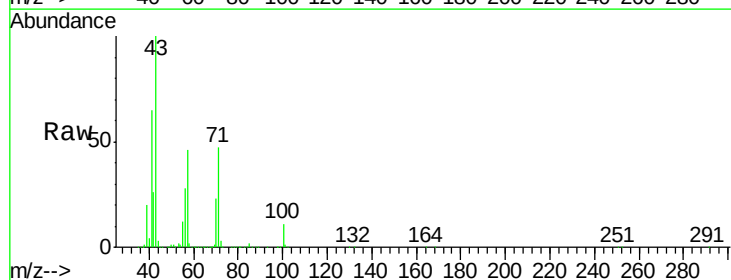
Acq: 5 Aug 2019 18:07

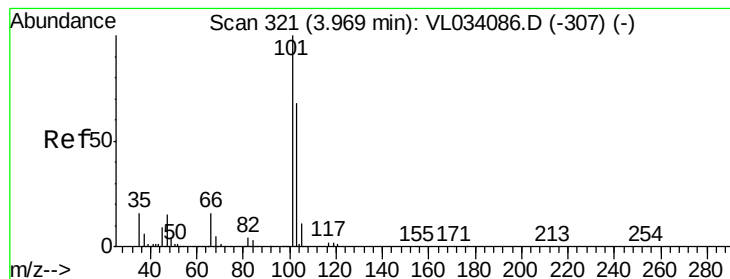
Tgt Ion: 43 Resp: 1647287

Ion Ratio Lower Upper

43 100

57 46.1 37.2 55.8





#11

Trichlorofluoromethane

Concen: 8.088 ppbv

RT: 3.97 min Scan# 320

Delta R.T. -0.00 min

Lab File: VL034093.D

Acq: 5 Aug 2019 18:07

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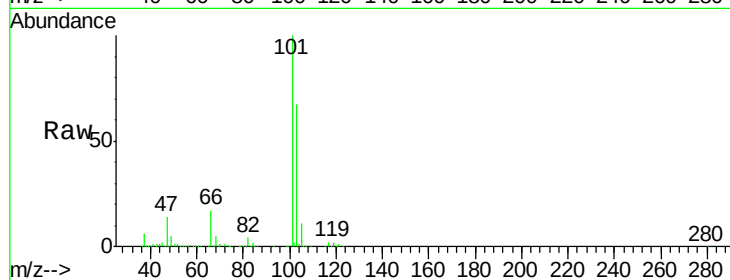
ICVVL080519

Tot Ion:101 Resp: 1348264

Ion Ratio Lower Upper

101 100

103 66.9 54.3 81.5



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V

1000000

800000

600000

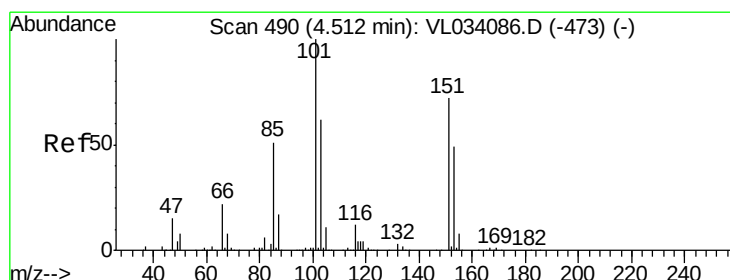
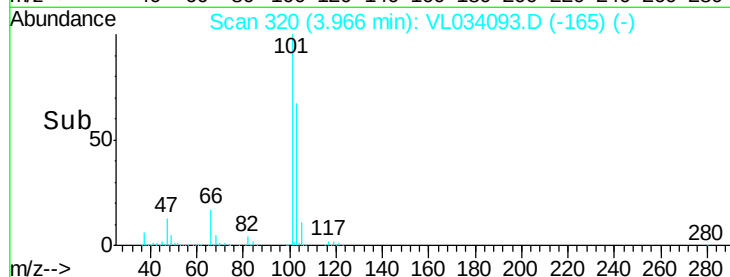
400000

200000

0

3.90 3.95 4.00

Time-->



#12

1,1,2-Trichlorotrifluoroethane

Concen: 8.094 ppbv

RT: 4.51 min Scan# 490

Delta R.T. 0.00 min

Lab File: VL034093.D

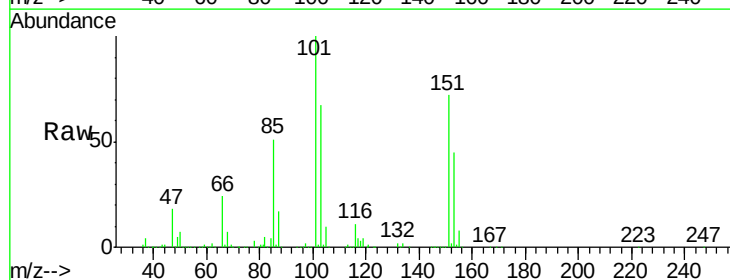
Acq: 5 Aug 2019 18:07

Tgt Ion:101 Resp: 952010

Ion Ratio Lower Upper

101 100

151 72.0 59.4 89.0



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 151.00 (150.70 to 151.70): V

600000

500000

400000

300000

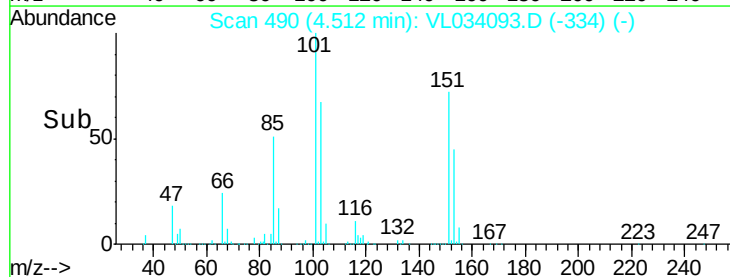
200000

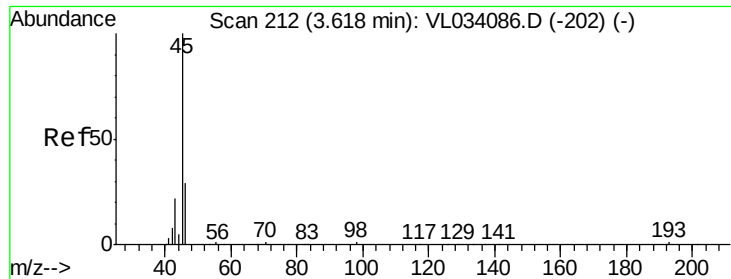
100000

0

4.45 4.50 4.55 4.60

Time-->

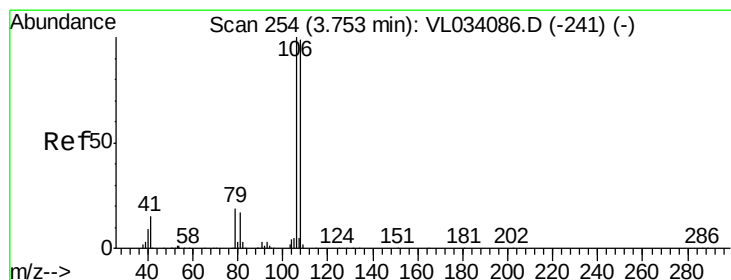
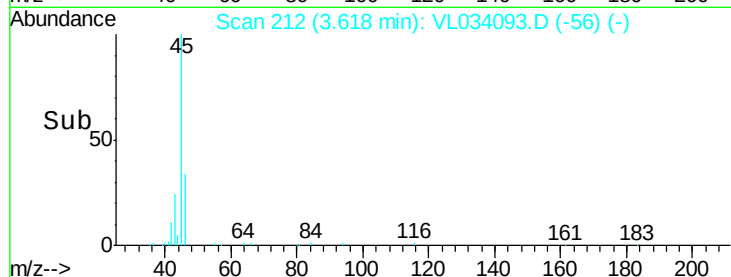
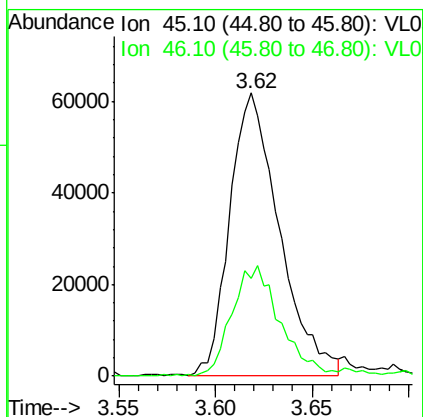
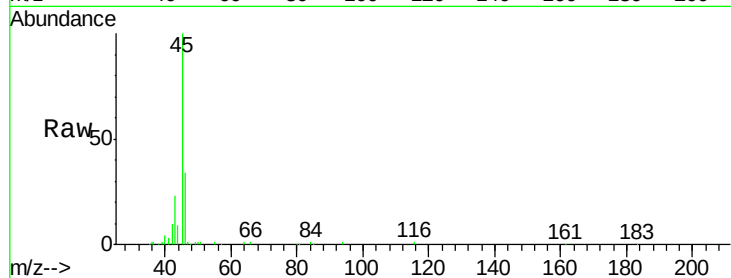




#13
Ethanol
Concen: 4.990 ppbv
RT: 3.62 min Scan# 212
Delta R.T. 0.00 min
Lab File: VL034093.D
Acq: 5 Aug 2019 18:07

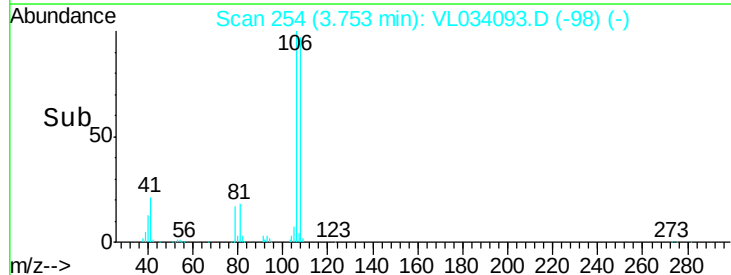
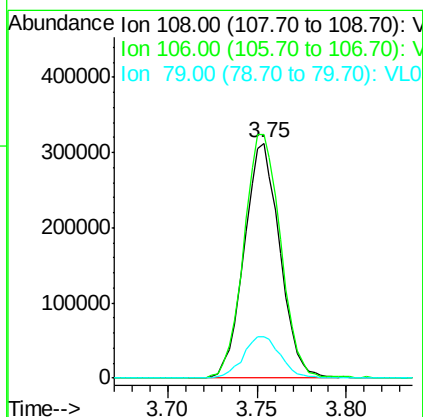
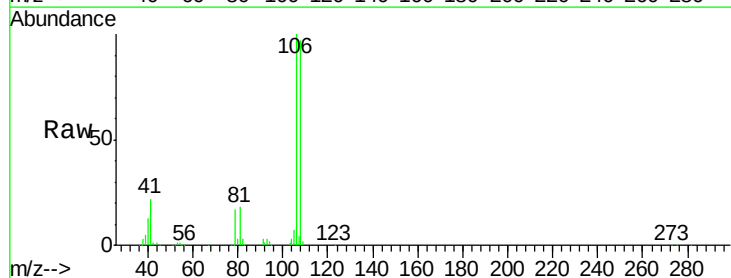
Instrument :
MSVOA_L
ClientSampleId :
ICVVL080519

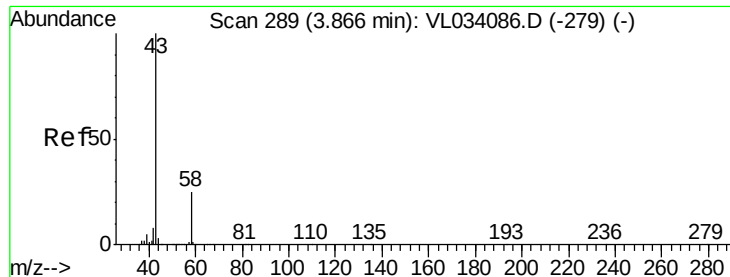
Tot Ion: 45 Resp: 109536
Ion Ratio Lower Upper
45 100
46 40.1 14.9 59.5



#14
Bromoethene
Concen: 8.269 ppbv
RT: 3.75 min Scan# 254
Delta R.T. 0.00 min
Lab File: VL034093.D
Acq: 5 Aug 2019 18:07

Tgt Ion: 108 Resp: 434368
Ion Ratio Lower Upper
108 100
106 107.9 85.0 127.6
79 18.6 15.8 23.8





#15

Acetone

Concen: 7.104 ppbv

RT: 3.87 min Scan# 289

Delta R.T. 0.00 min

Lab File: VL034093.D

Acq: 5 Aug 2019 18:07

Instrument :

MSVOA_L

ClientSampleId :

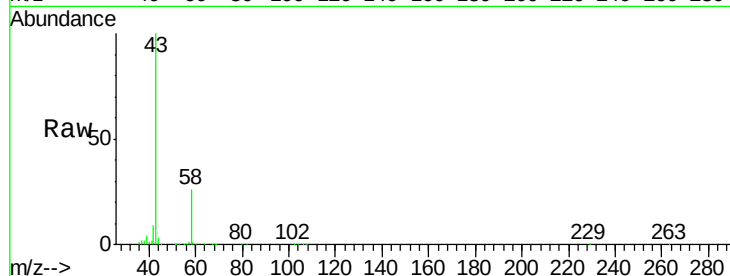
ICVVL080519

Tot Ion: 43 Resp: 1159812

Ion Ratio Lower Upper

43 100

58 25.9 20.6 30.8



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

3.87

800000

600000

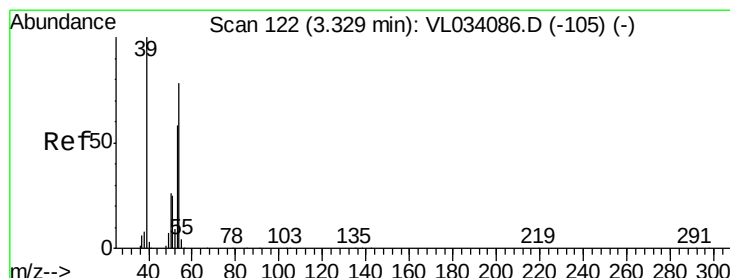
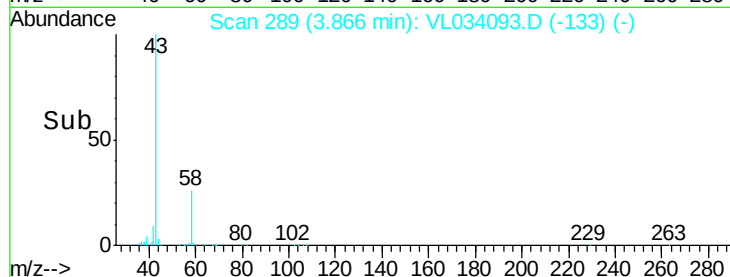
400000

200000

0

Time-->

3.80 3.85 3.90 3.95



#16

1,3-Butadiene

Concen: 8.306 ppbv

RT: 3.33 min Scan# 123

Delta R.T. 0.00 min

Lab File: VL034093.D

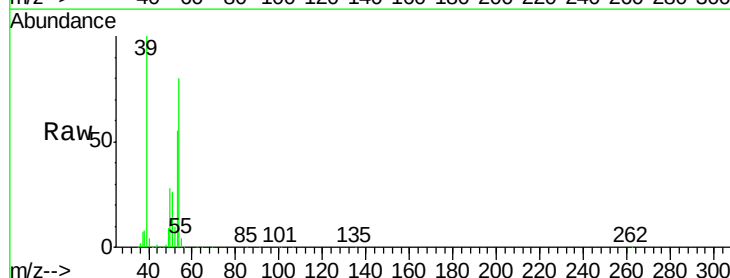
Acq: 5 Aug 2019 18:07

Tgt Ion: 39 Resp: 659383

Ion Ratio Lower Upper

39 100

54 77.2 62.7 94.1



Abundance Ion 39.10 (38.80 to 39.80): VL0

Ion 54.10 (53.80 to 54.80): VL0

3.33

500000

400000

300000

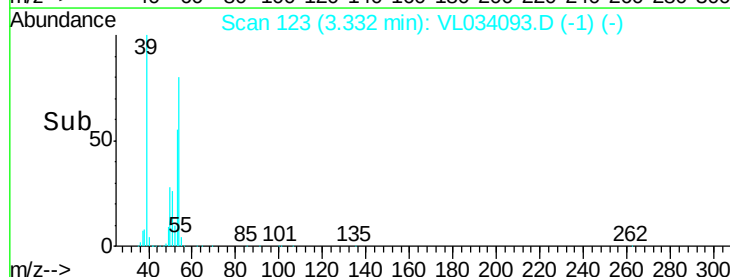
200000

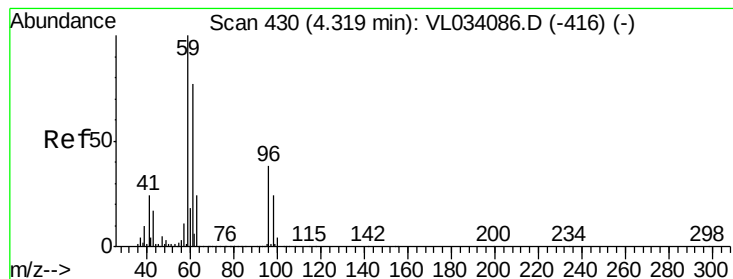
100000

0

Time-->

3.25 3.30 3.35





#17

tert-Butyl alcohol
Concen: 8.071 ppbv
RT: 4.32 min Scan# 430
Delta R.T. 0.00 min
Lab File: VL034093.D
Acq: 5 Aug 2019 18:07

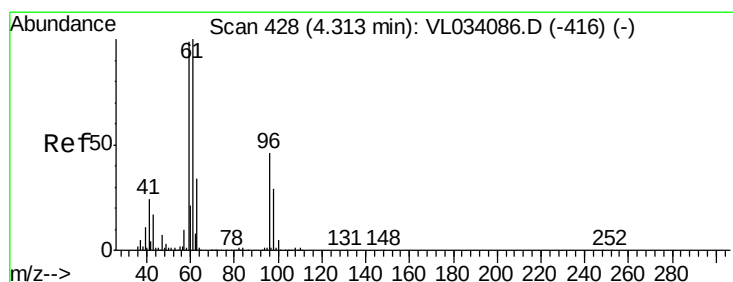
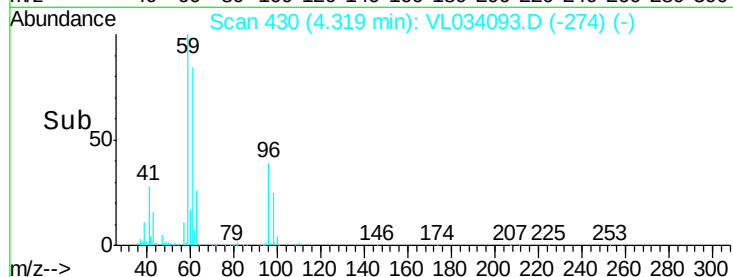
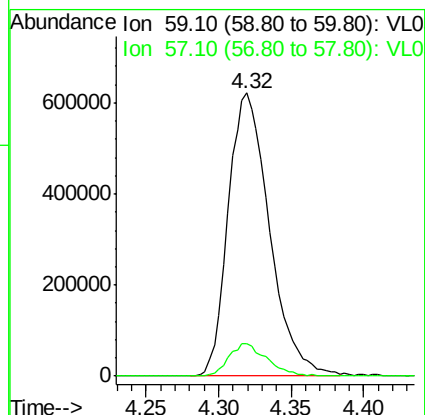
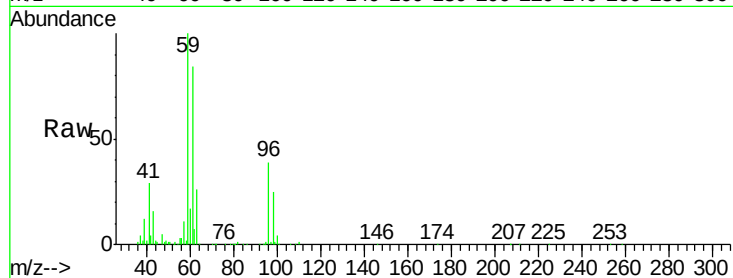
Instrument :
MSVOA_L
ClientSampleId :
ICVVL080519

Tot Ion: 59 Resp: 1229490

Ion Ratio Lower Upper

59 100

57 10.9 8.4 12.6



#18

1,1-Dichloroethene
Concen: 8.014 ppbv
RT: 4.31 min Scan# 428
Delta R.T. 0.00 min
Lab File: VL034093.D
Acq: 5 Aug 2019 18:07

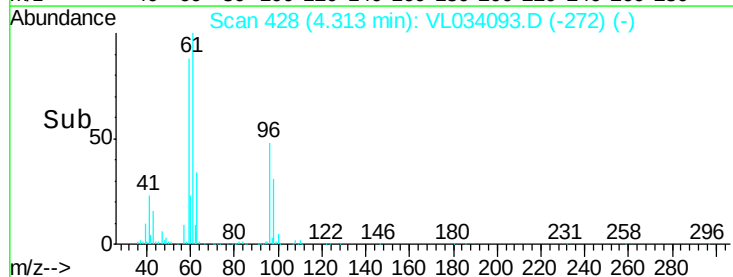
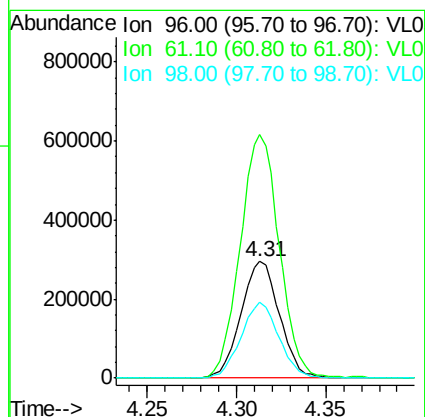
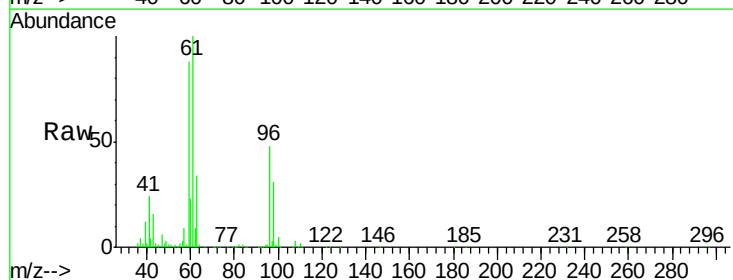
Tgt Ion: 96 Resp: 445820

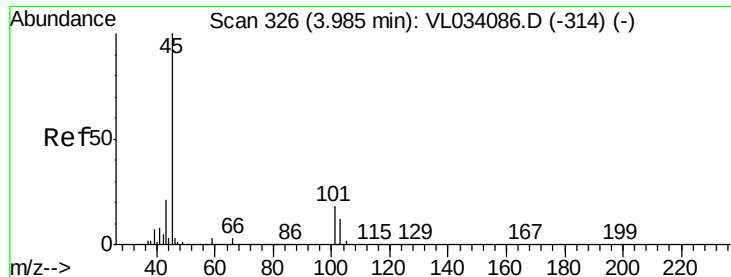
Ion Ratio Lower Upper

96 100

61 208.9 173.1 259.7

98 65.6 50.3 75.5



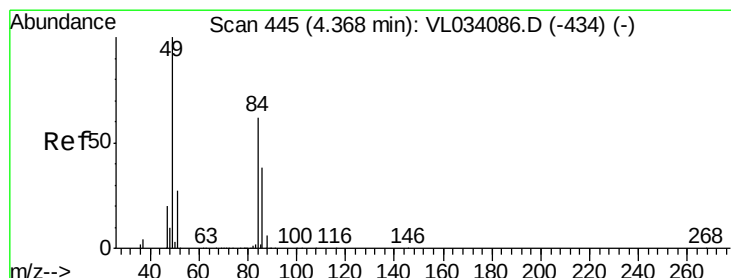
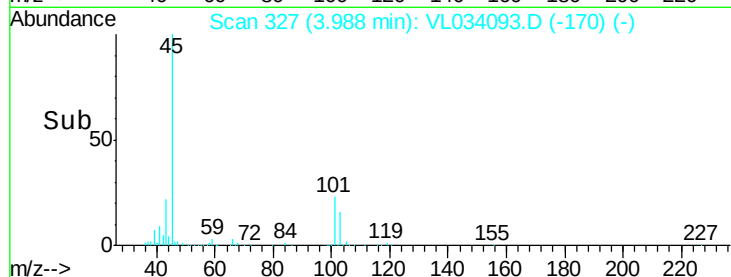
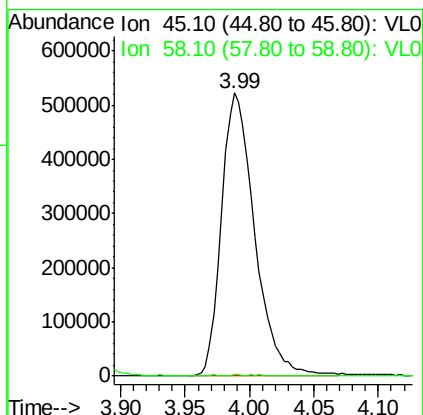
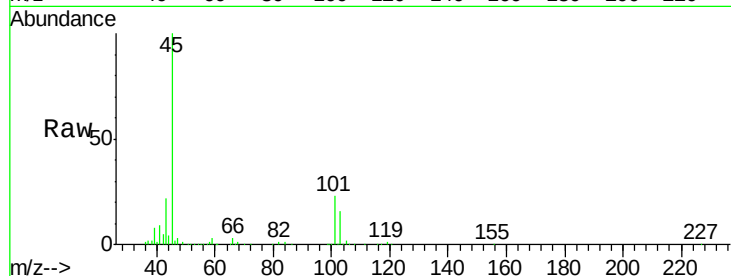


#19

Isopropyl Alcohol
 Concen: 7.363 ppbv
 RT: 3.99 min Scan# 327
 Delta R.T. 0.00 min
 Lab File: VL034093.D
 Acq: 5 Aug 2019 18:07

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL080519

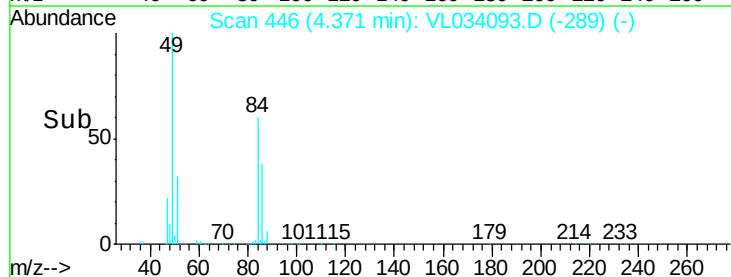
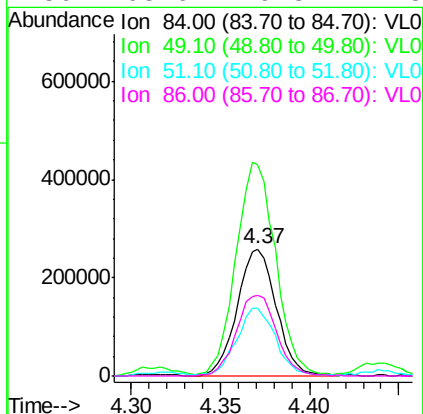
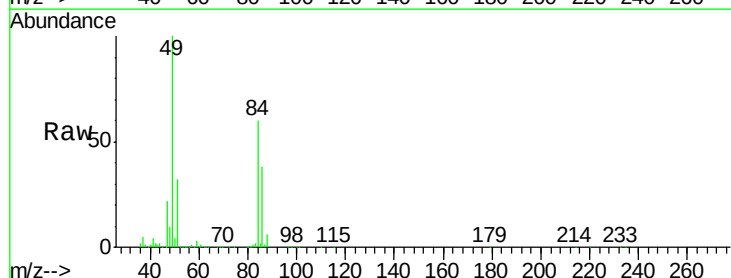
Tot Ion: 45 Resp: 935887
 Ion Ratio Lower Upper
 45 100
 58 32.0 24.6 37.0

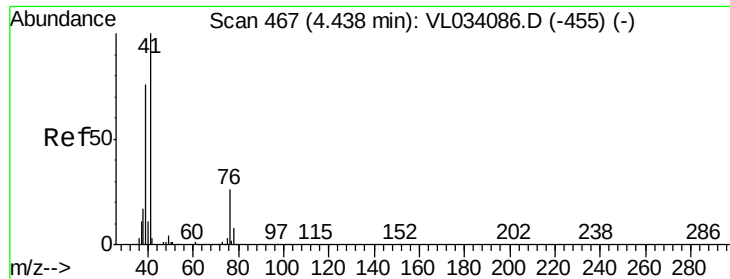


#20

Methylene Chloride
 Concen: 8.035 ppbv
 RT: 4.37 min Scan# 446
 Delta R.T. 0.00 min
 Lab File: VL034093.D
 Acq: 5 Aug 2019 18:07

Tgt Ion: 84 Resp: 393380
 Ion Ratio Lower Upper
 84 100
 49 164.9 129.7 194.5
 51 52.6 35.8 53.8
 86 63.6 49.8 74.8





#21

Allvl Chloride

Concen: 8.114 ppbv

RT: 4.44 min Scan# 467

Delta R.T. 0.00 min

Lab File: VL034093.D

Acq: 5 Aug 2019 18:07

Instrument :

MSVOA_L

ClientSampleId :

ICVVL080519

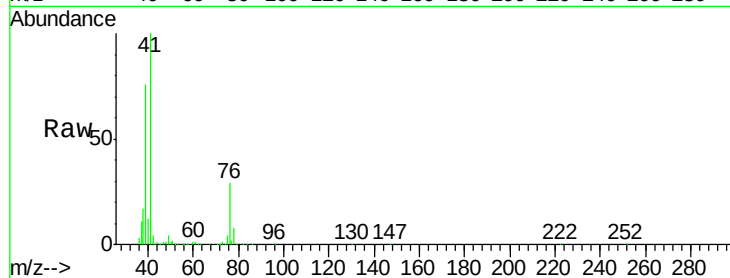
Tot Ion: 41 Resp: 916809

Ion Ratio Lower Upper

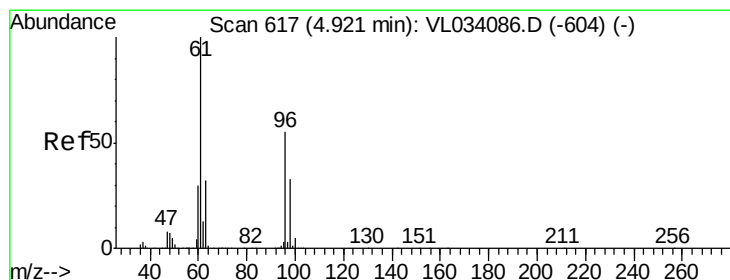
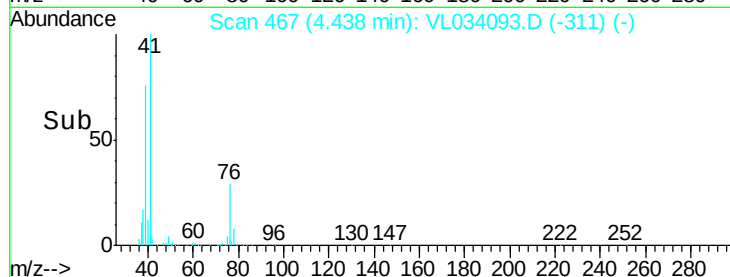
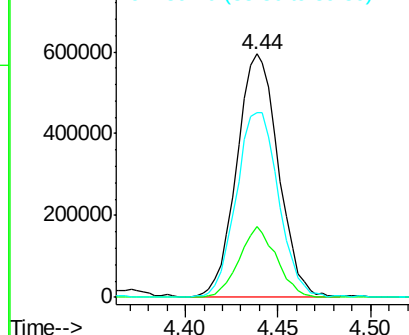
41 100

76 26.5 20.8 31.2

39 78.1 61.3 91.9



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: 8.110 ppbv

RT: 4.92 min Scan# 617

Delta R.T. 0.00 min

Lab File: VL034093.D

Acq: 5 Aug 2019 18:07

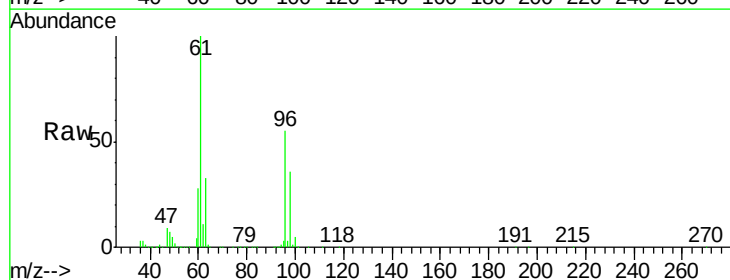
Tgt Ion: 96 Resp: 438414

Ion Ratio Lower Upper

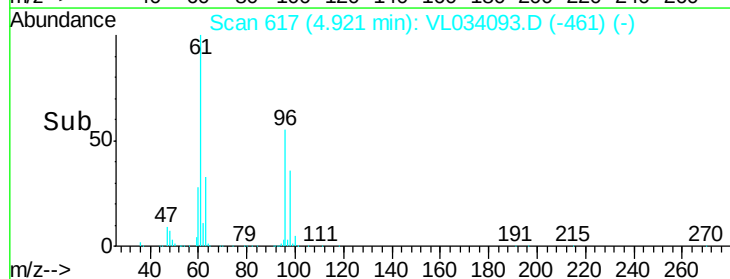
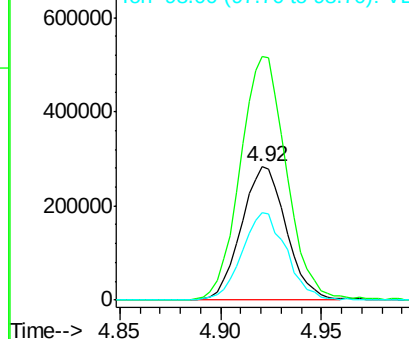
96 100

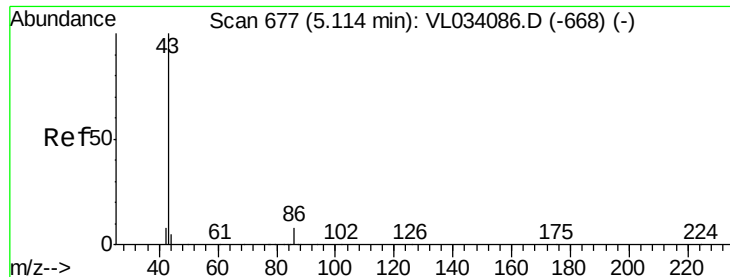
61 183.0 144.2 216.2

98 65.6 48.0 72.0



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: 7.901 ppbv

RT: 5.11 min Scan# 677

Delta R.T. 0.00 min

Lab File: VL034093.D

Acq: 5 Aug 2019 18:07

Instrument :

MSVOA_L

ClientSampleId :

ICVVL080519

Tot Ion: 43 Resp: 2138558

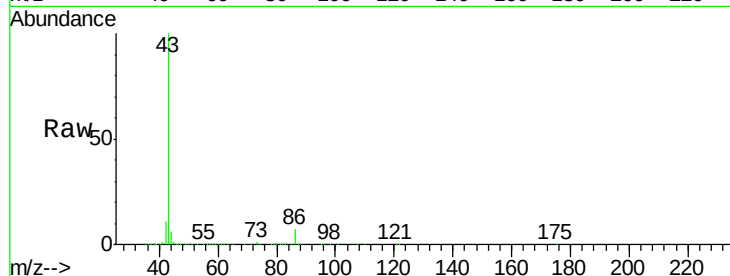
Ion Ratio Lower Upper

43 100

86 6.6 5.4 8.0

42 10.6 7.9 11.9

44 5.4 4.0 6.0

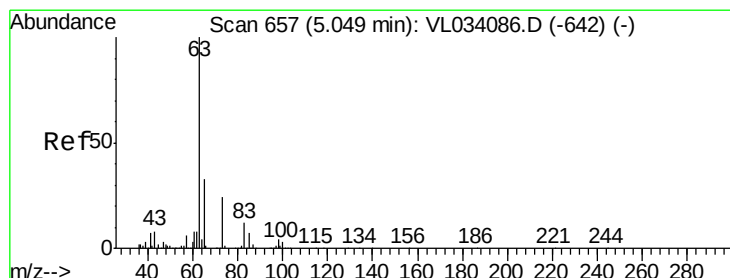
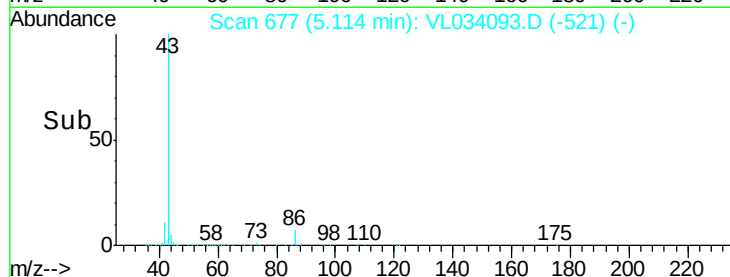
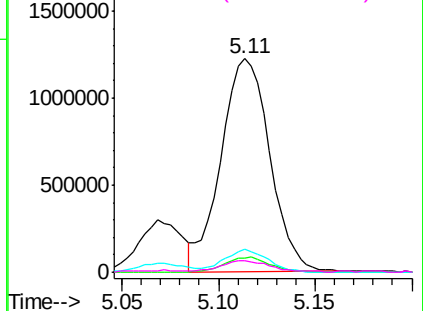


Abundance Ion 43.10 (42.80 to 43.80): VL0

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: 8.050 ppbv

RT: 5.05 min Scan# 657

Delta R.T. 0.00 min

Lab File: VL034093.D

Acq: 5 Aug 2019 18:07

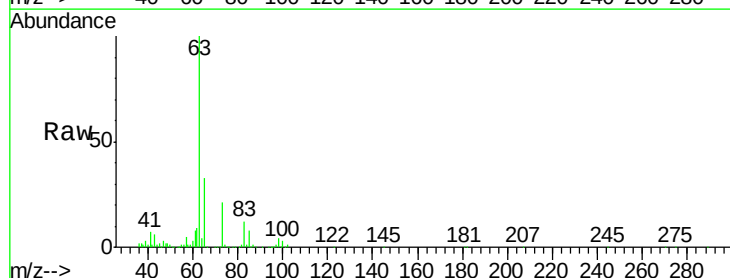
Tgt Ion: 63 Resp: 1296495

Ion Ratio Lower Upper

63 100

98 4.3 2.0 6.0

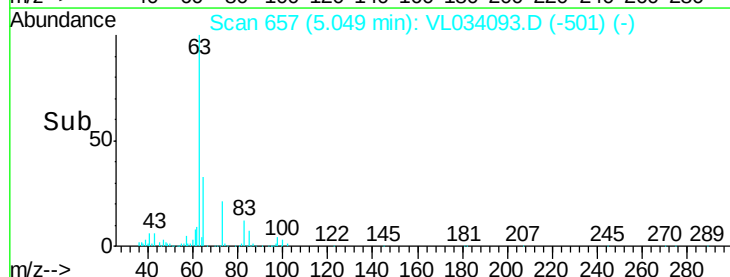
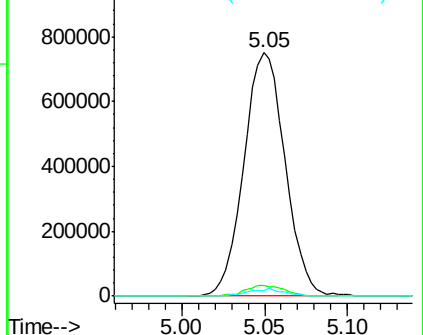
100 2.5 1.3 3.8

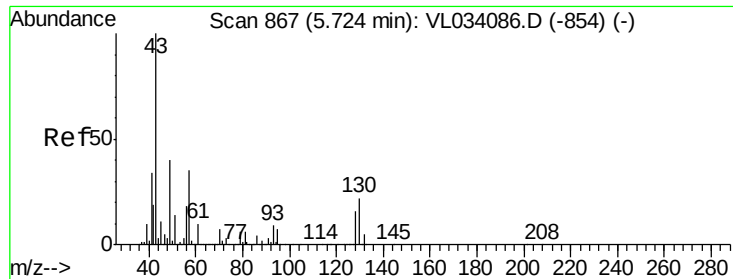


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

Ion 100.00 (99.70 to 100.70): VL0



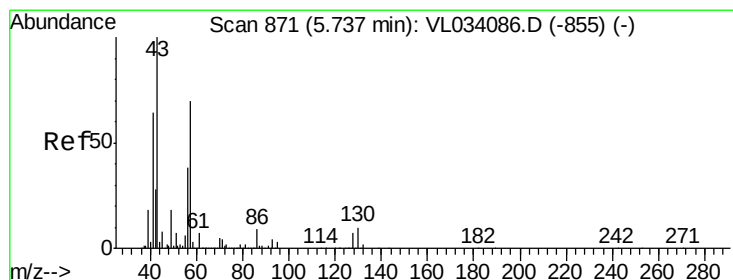
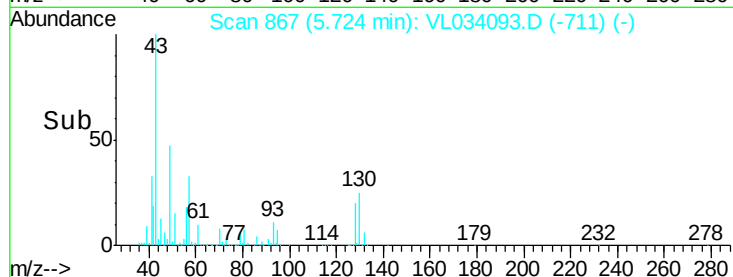
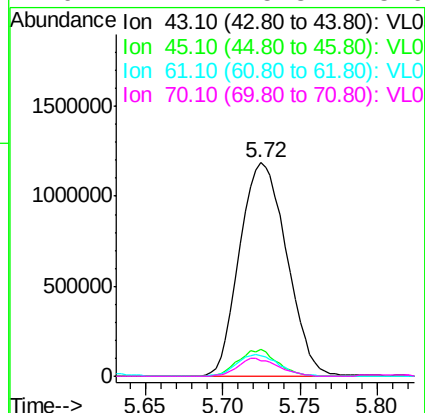
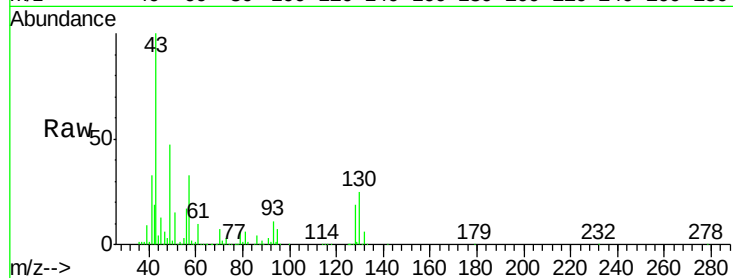


#25
Ethyl Acetate
Concen: 7.814 ppbv
RT: 5.72 min Scan# 867
Delta R.T. 0.00 min
Lab File: VL034093.D
Acq: 5 Aug 2019 18:07

Instrument :
MSVOA_L
ClientSampleId :
ICVVL080519

Tot Ion: 43 Resp: 2509137

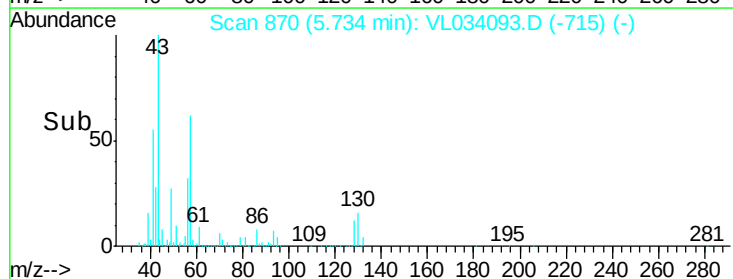
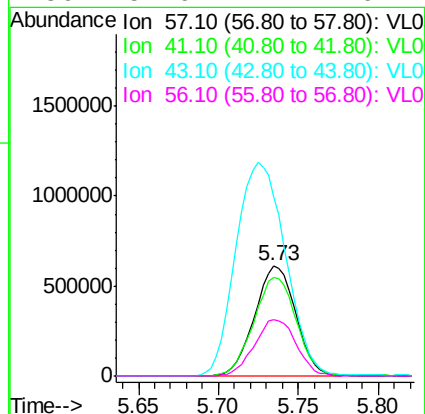
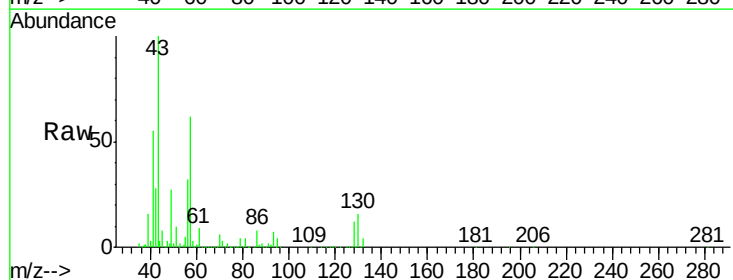
Ion	Ratio	Lower	Upper
43	100		
45	10.5	8.4	12.6
61	9.1	7.3	10.9
70	7.2	5.8	8.6

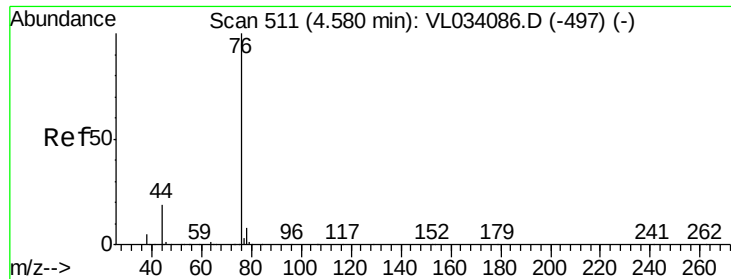


#26
Hexane
Concen: 7.972 ppbv
RT: 5.73 min Scan# 870
Delta R.T. -0.00 min
Lab File: VL034093.D
Acq: 5 Aug 2019 18:07

Tgt Ion: 57 Resp: 1084996

Ion	Ratio	Lower	Upper
57	100		
41	93.0	75.7	113.5
43	232.4	189.8	284.8
56	52.6	42.7	64.1





#27

Carbon Disulfide

Concen: 8.394 ppbv

RT: 4.58 min Scan# 511

Delta R.T. 0.00 min

Lab File: VL034093.D

Acq: 5 Aug 2019 18:07

Instrument :

MSVOA_L

ClientSampleId :

ICVVL080519

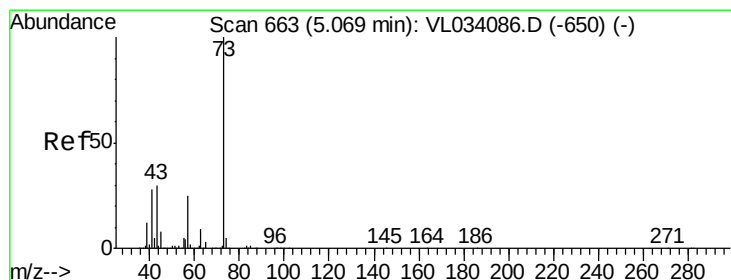
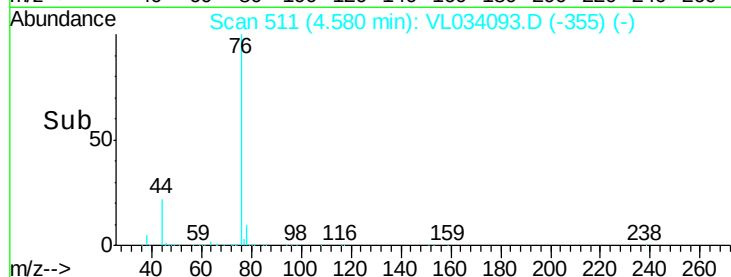
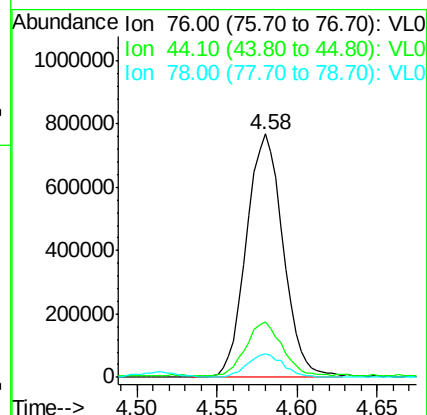
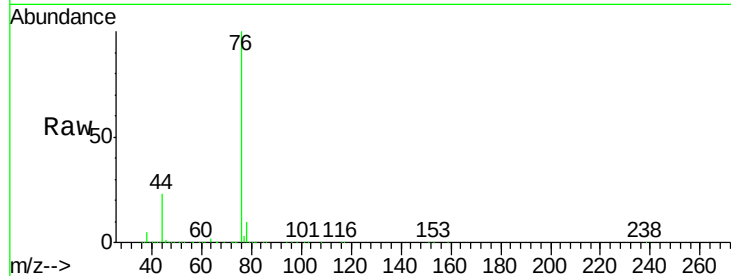
Tot Ion: 76 Resp: 1204480

Ion Ratio Lower Upper

76 100

44 21.8 17.8 26.6

78 9.5 7.7 11.5



#28

Methyl tert-Butyl Ether

Concen: 7.970 ppbv

RT: 5.07 min Scan# 664

Delta R.T. 0.00 min

Lab File: VL034093.D

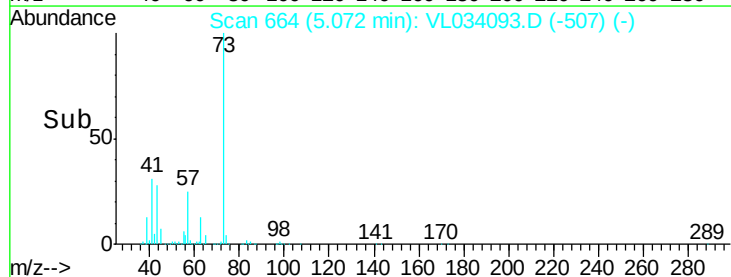
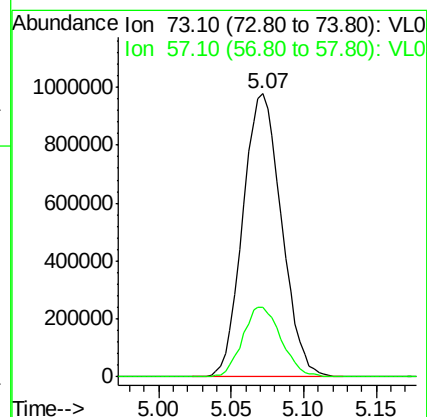
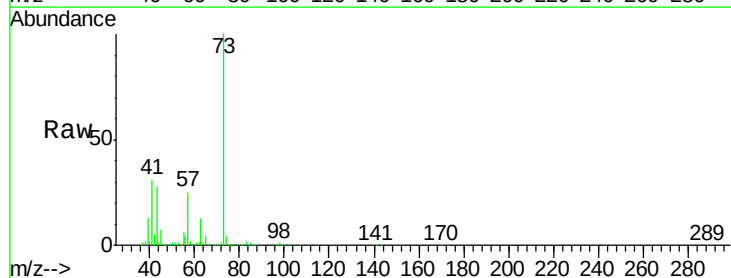
Acq: 5 Aug 2019 18:07

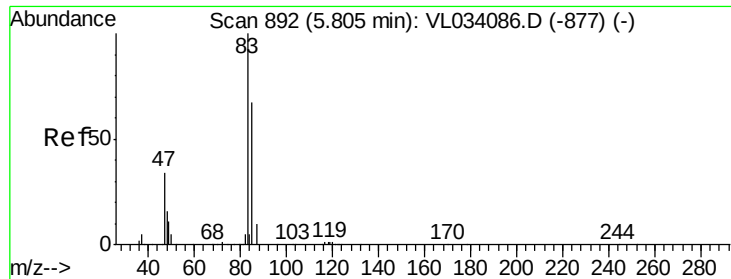
Tgt Ion: 73 Resp: 1814130

Ion Ratio Lower Upper

73 100

57 24.8 19.5 29.3





#29

Chloroform

Concen: 8.213 ppbv

RT: 5.80 min Scan# 892

Delta R.T. 0.00 min

Lab File: VL034093.D

Acq: 5 Aug 2019 18:07

Instrument :

MSVOA_L

ClientSampleId :

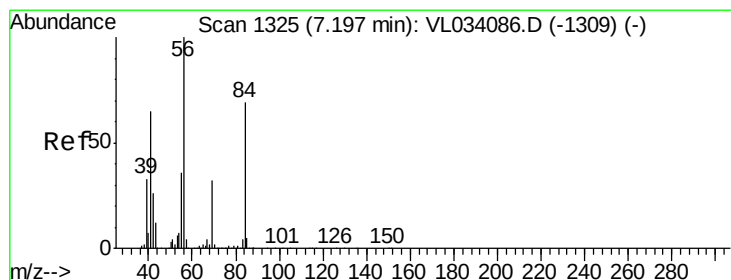
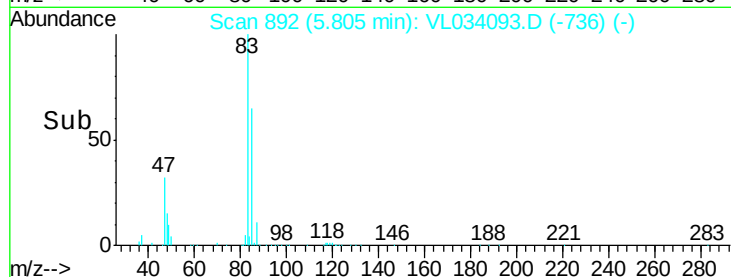
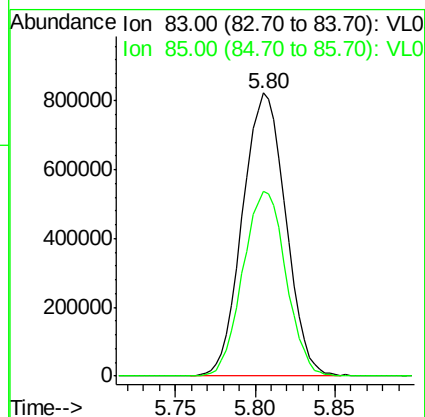
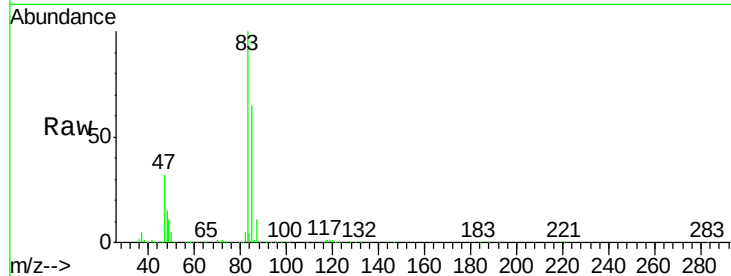
ICVVL080519

Tot Ion: 83 Resp: 1519616

Ion Ratio Lower Upper

83 100

85 65.5 53.2 79.8



#30

Cyclohexane

Concen: 8.407 ppbv

RT: 7.20 min Scan# 1325

Delta R.T. 0.00 min

Lab File: VL034093.D

Acq: 5 Aug 2019 18:07

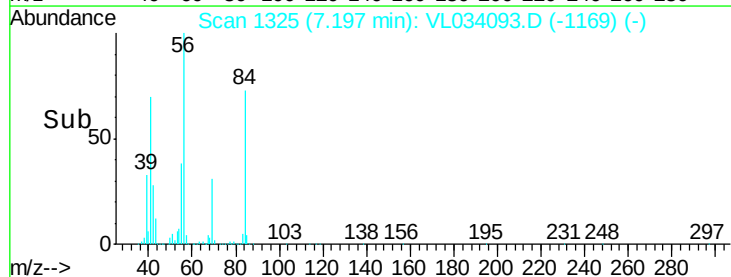
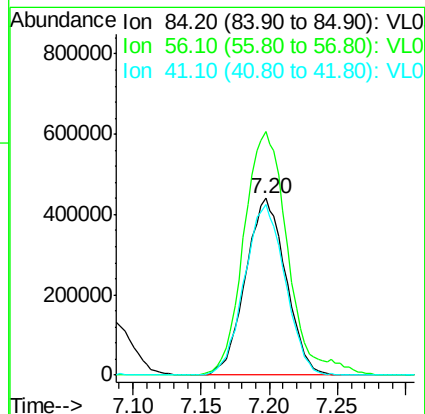
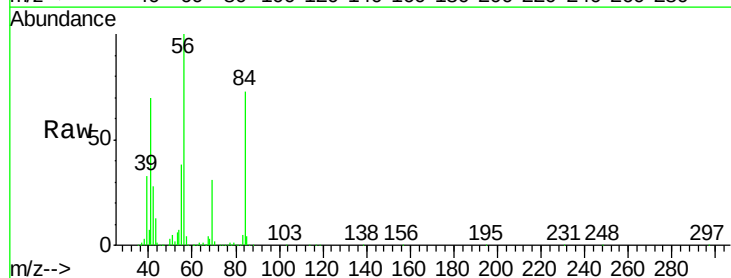
Tgt Ion: 84 Resp: 903927

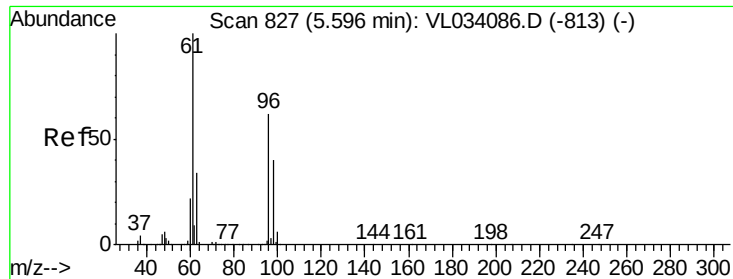
Ion Ratio Lower Upper

84 100

56 150.2 122.6 184.0

41 97.3 80.1 120.1



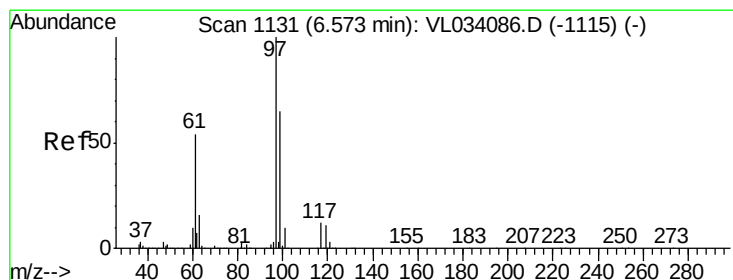
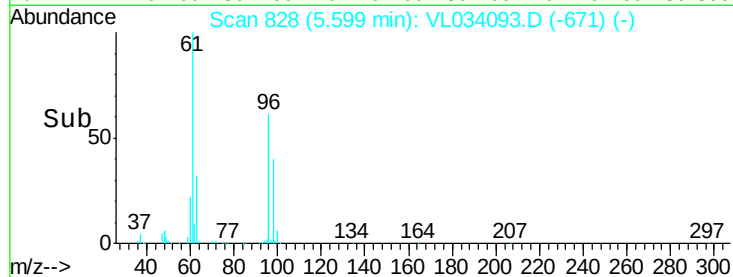
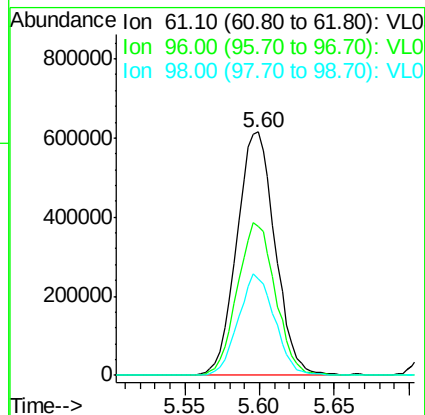
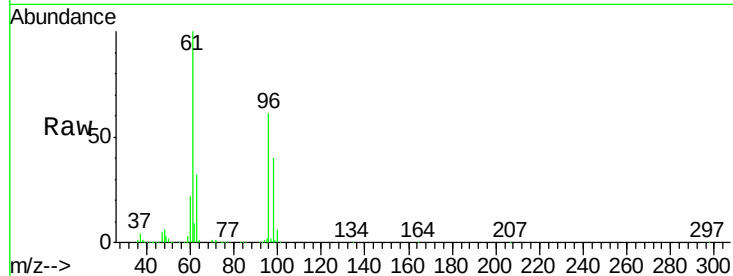


#31

cis-1,2-Dichloroethene
 Concen: 8.142 ppbv
 RT: 5.60 min Scan# 828
 Delta R.T. 0.00 min
 Lab File: VL034093.D
 Acq: 5 Aug 2019 18:07

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL080519

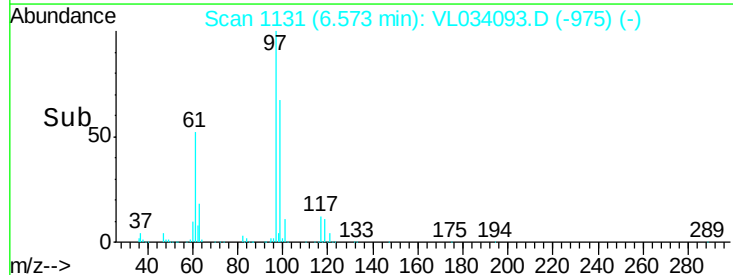
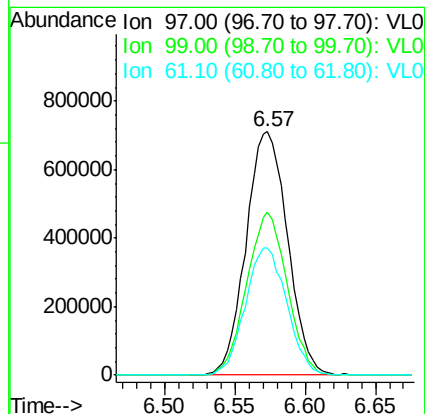
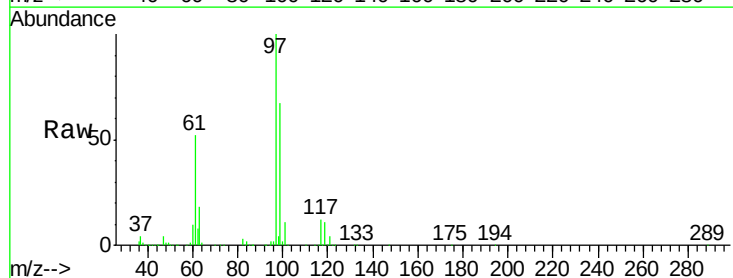
Tot Ion: 61 Resp: 1094665
 Ion Ratio Lower Upper
 61 100
 96 61.2 49.3 73.9
 98 39.6 32.4 48.6

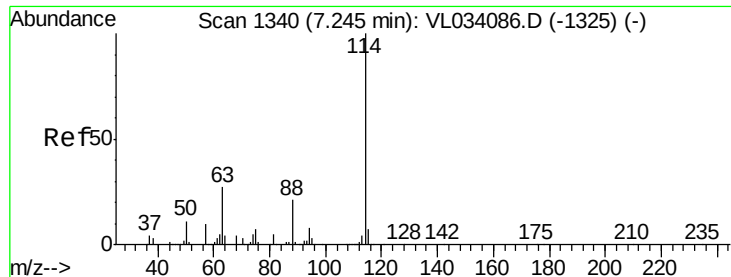


#32

1,1,1-Trichloroethane
 Concen: 8.022 ppbv
 RT: 6.57 min Scan# 1131
 Delta R.T. 0.00 min
 Lab File: VL034093.D
 Acq: 5 Aug 2019 18:07

Tgt Ion: 97 Resp: 1468948
 Ion Ratio Lower Upper
 97 100
 99 65.2 52.2 78.4
 61 52.3 42.0 63.0



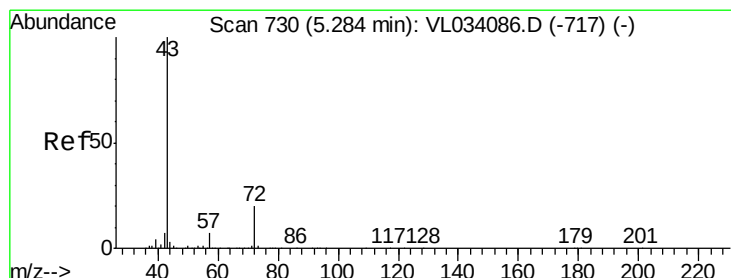
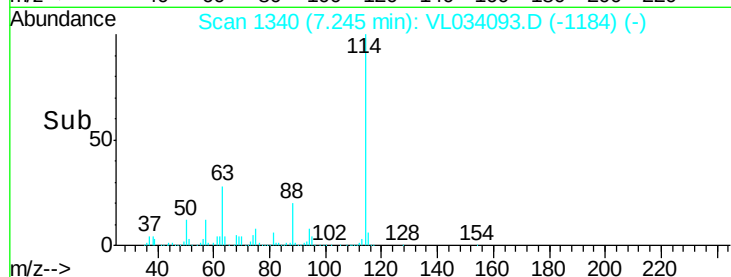
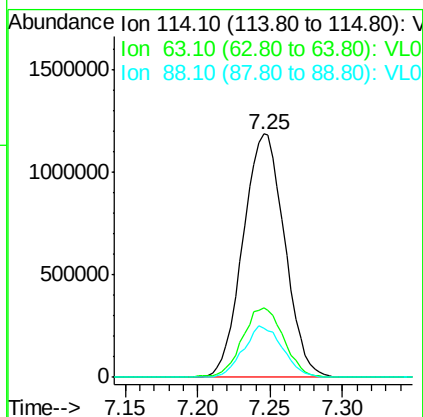
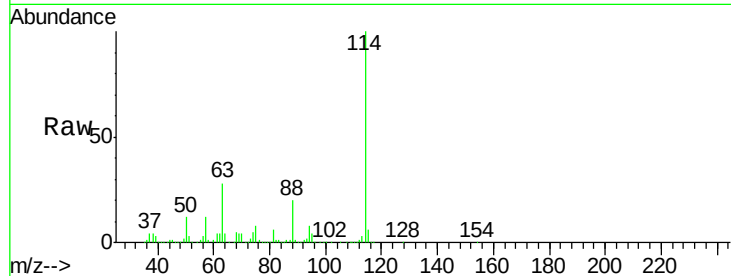


#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.25 min Scan# 1340
 Delta R.T. 0.00 min
 Lab File: VL034093.D
 Acq: 5 Aug 2019 18:07

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL080519

Tot Ion:114 Resp: 2368513

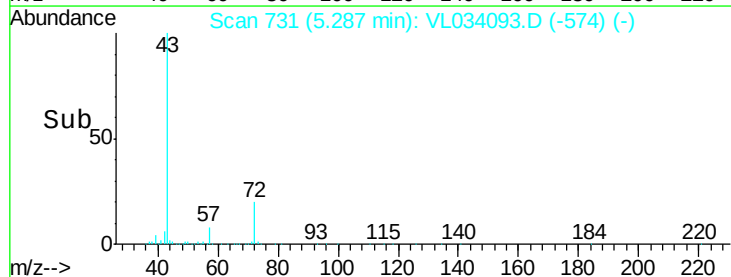
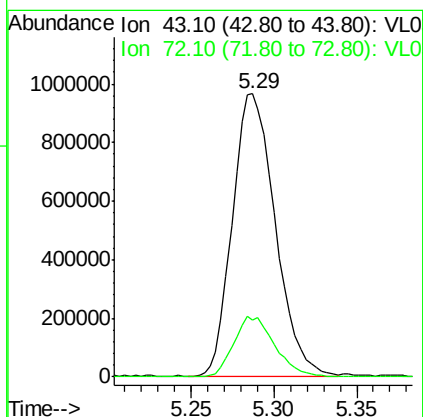
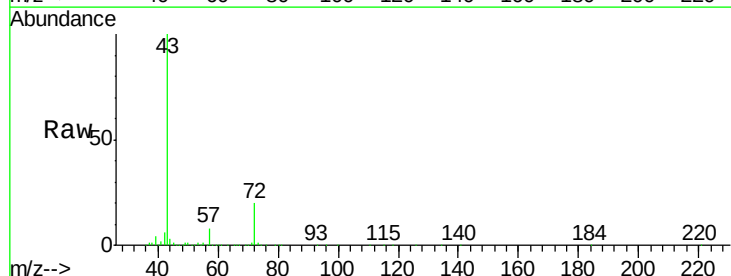
Ion	Ratio	Lower	Upper
114	100		
63	28.5	22.5	33.7
88	20.0	15.7	23.5

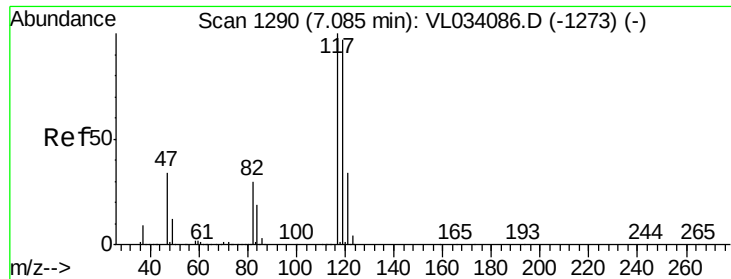


#34
 2-Butanone
 Concen: 7.900 ppbv
 RT: 5.29 min Scan# 731
 Delta R.T. 0.00 min
 Lab File: VL034093.D
 Acq: 5 Aug 2019 18:07

Tgt Ion: 43 Resp: 1739650

Ion	Ratio	Lower	Upper
43	100		
72	20.6	16.0	24.0





#35

Carbon Tetrachloride

Concen: 7.883 ppbv

RT: 7.08 min Scan# 1290

Delta R.T. 0.00 min

Lab File: VL034093.D

Acq: 5 Aug 2019 18:07

Instrument :

MSVOA_L

ClientSampleId :

ICVVL080519

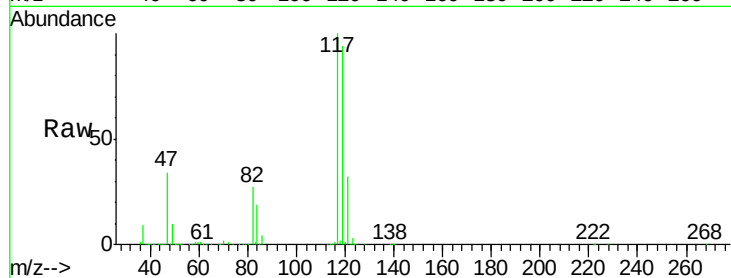
Tot Ion:117 Resp: 1432975

Ion Ratio Lower Upper

117 100

119 93.7 77.8 116.6

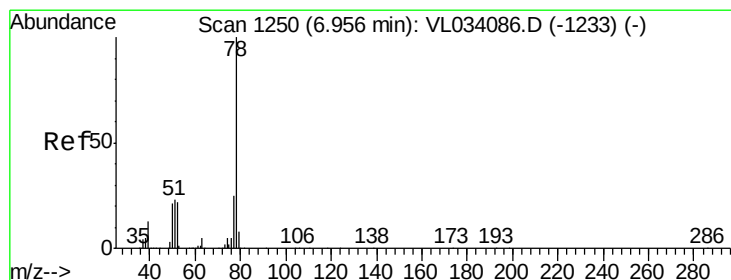
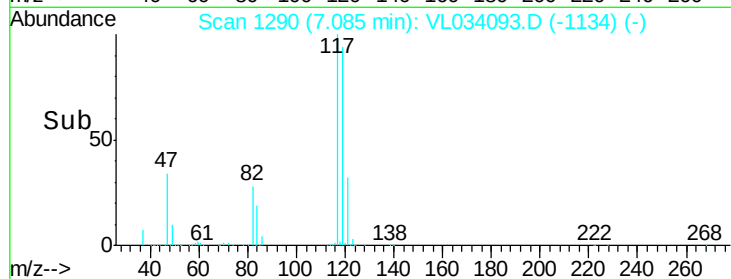
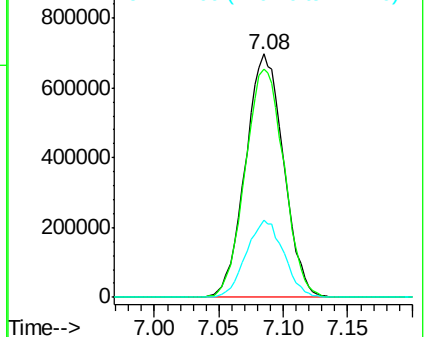
121 31.8 27.4 41.2



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: 8.000 ppbv

RT: 6.96 min Scan# 1251

Delta R.T. 0.00 min

Lab File: VL034093.D

Acq: 5 Aug 2019 18:07

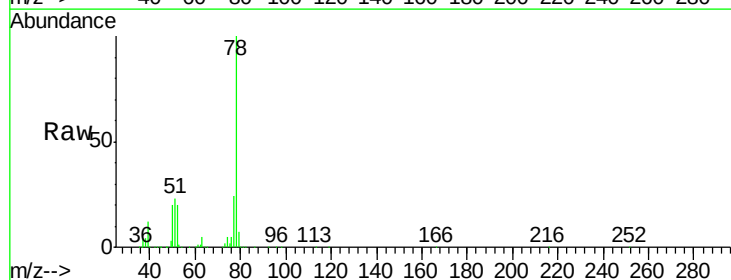
Tgt Ion: 78 Resp: 2153490

Ion Ratio Lower Upper

78 100

77 23.6 19.9 29.9

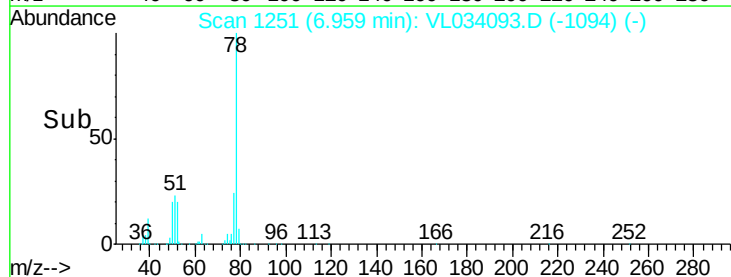
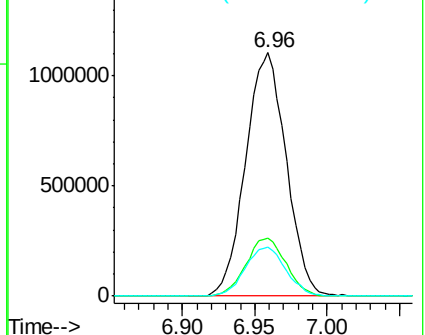
50 20.2 16.7 25.1

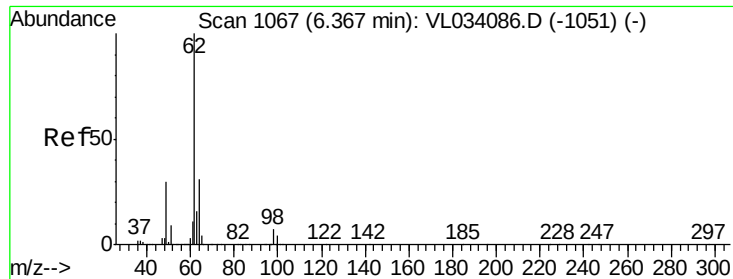


Abundance Ion 78.10 (77.80 to 78.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

Ion 50.10 (49.80 to 50.80): VL0

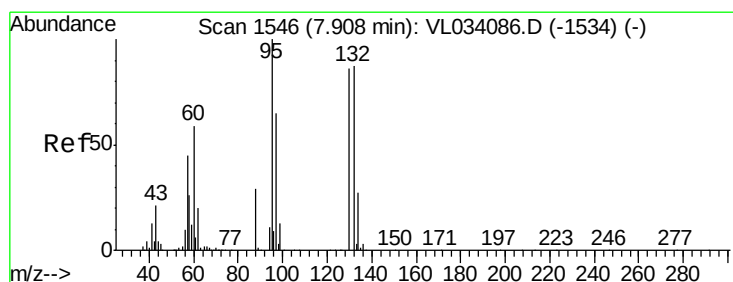
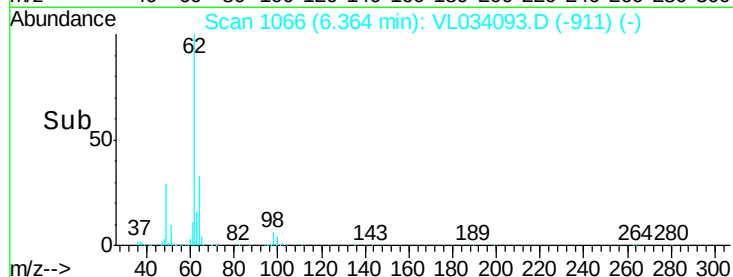
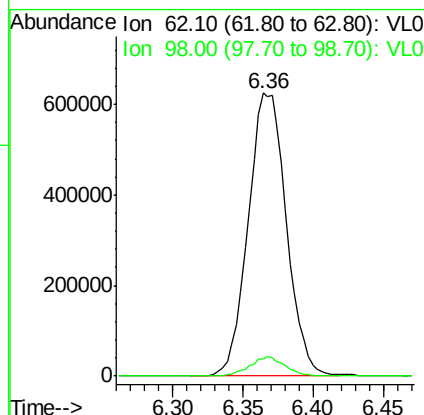
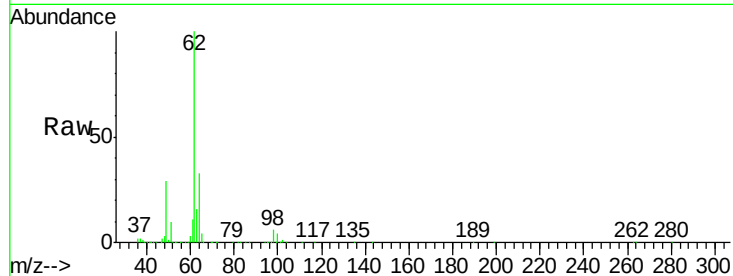




#37
 1,2-Dichloroethane
 Concen: 8.183 ppbv
 RT: 6.36 min Scan# 1066
 Delta R.T. -0.00 min
 Lab File: VL034093.D
 Acq: 5 Aug 2019 18:07

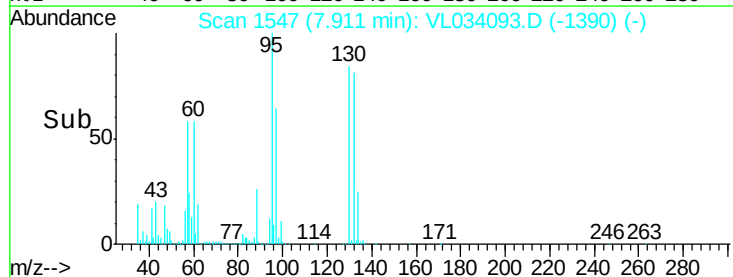
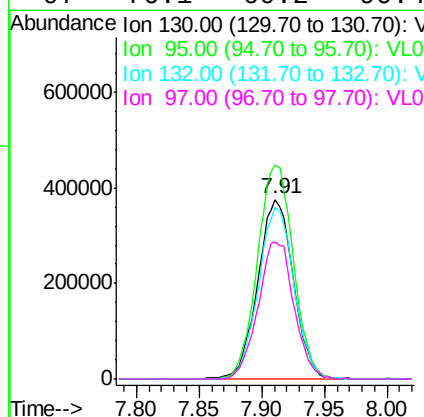
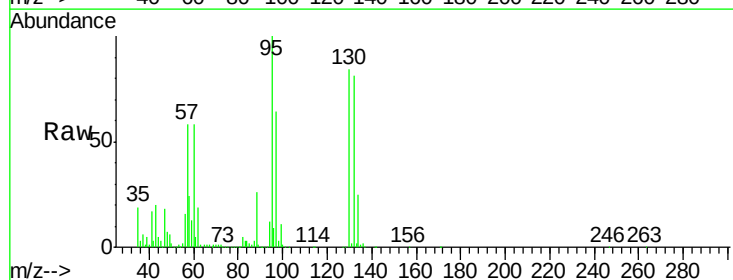
Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL080519

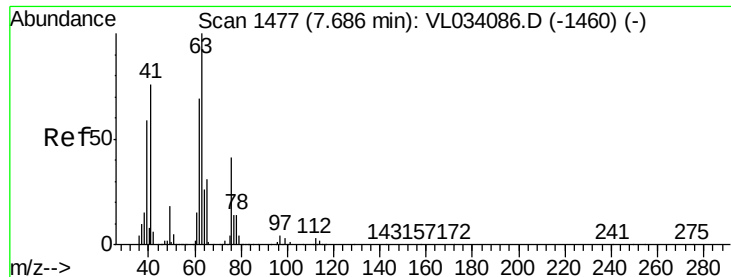
Tot Ion: 62 Resp: 1185199
 Ion Ratio Lower Upper
 62 100
 98 6.3 4.9 7.3



#38
 Trichloroethene
 Concen: 7.112 ppbv
 RT: 7.91 min Scan# 1547
 Delta R.T. 0.00 min
 Lab File: VL034093.D
 Acq: 5 Aug 2019 18:07

Tgt Ion: 130 Resp: 741454
 Ion Ratio Lower Upper
 130 100
 95 118.9 92.1 138.1
 132 95.8 79.7 119.5
 97 76.1 60.2 90.4





#39

1,2-Dichloropropane

Concen: 8.199 ppbv

RT: 7.69 min Scan# 1478

Delta R.T. 0.00 min

Lab File: VL034093.D

Acq: 5 Aug 2019 18:07

Instrument :

MSVOA_L

ClientSampleId :

ICVVL080519

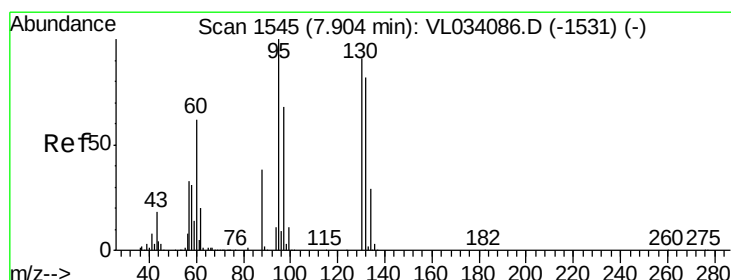
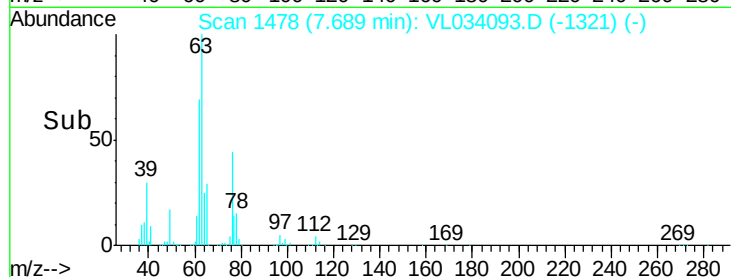
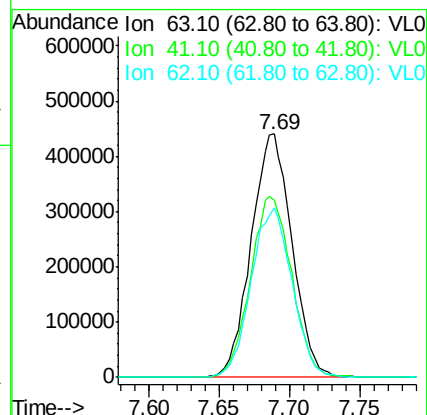
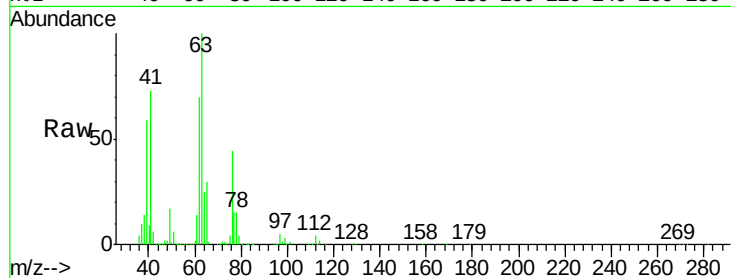
Tot Ion: 63 Resp: 890563

Ion Ratio Lower Upper

63 100

41 72.6 60.6 91.0

62 69.5 55.0 82.6



#40

1,4-Dioxane

Concen: 7.533 ppbv

RT: 7.90 min Scan# 1545

Delta R.T. 0.00 min

Lab File: VL034093.D

Acq: 5 Aug 2019 18:07

Tgt Ion: 88 Resp: 308750

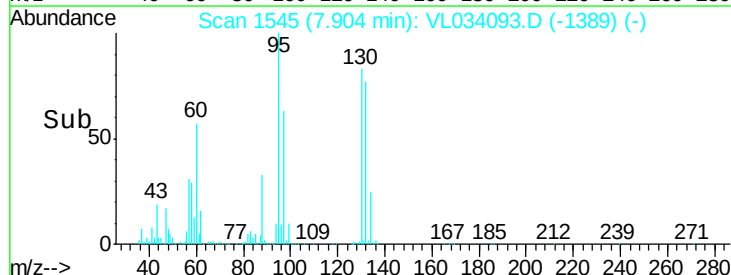
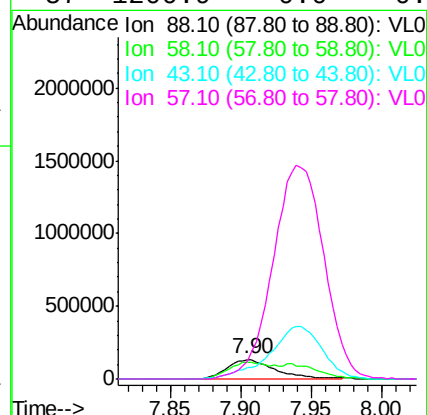
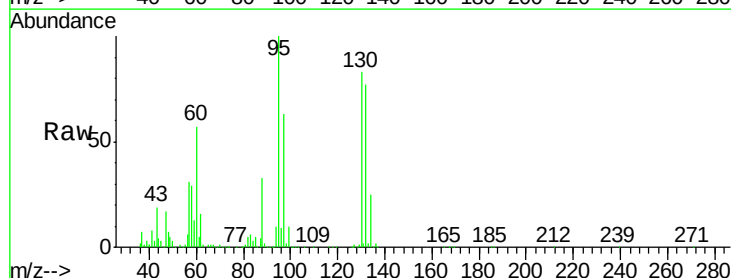
Ion Ratio Lower Upper

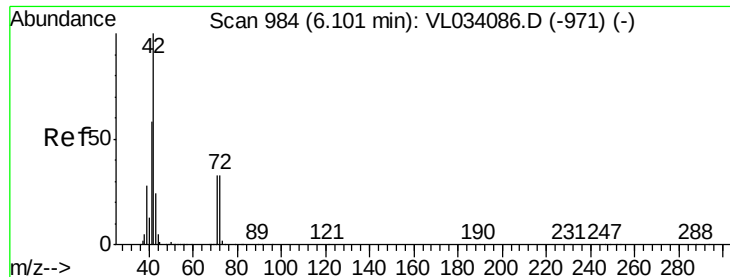
88 100

58 142.1 113.0 169.4

43 303.0 0.0 0.0#

57 1200.9 0.0 0.0#





#41

Tetrahydrofuran

Concen: 8.187 ppbv

RT: 6.10 min Scan# 984

Delta R.T. 0.00 min

Lab File: VL034093.D

Acq: 5 Aug 2019 18:07

Instrument :

MSVOA_L

ClientSampleId :

ICVVL080519

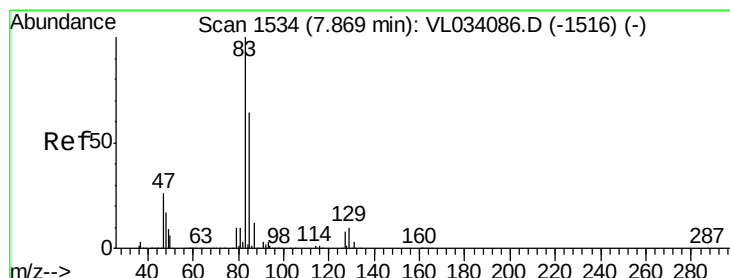
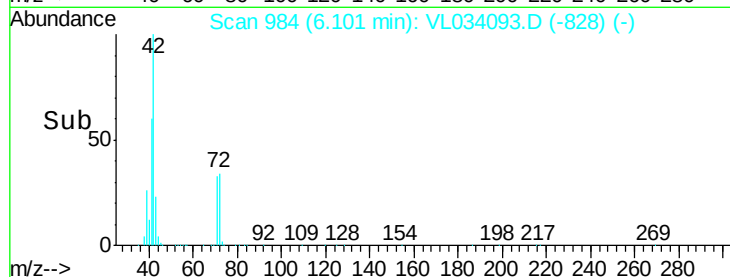
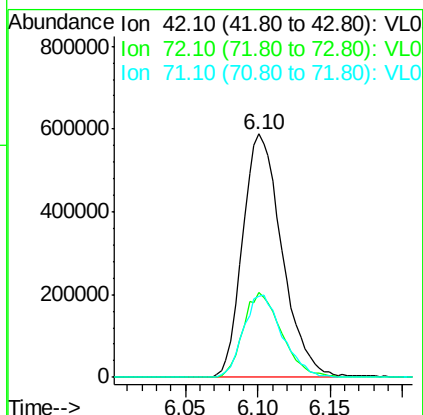
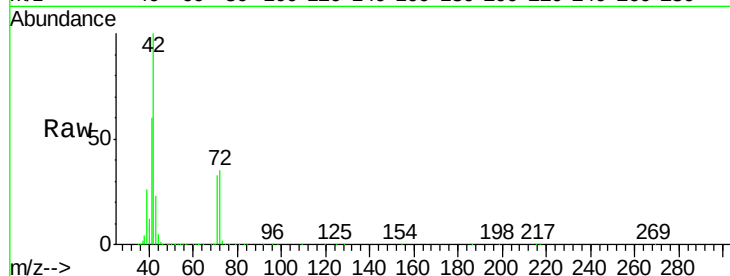
Tot Ion: 42 Resp: 1109031

Ion Ratio Lower Upper

42 100

72 34.1 26.9 40.3

71 33.7 26.5 39.7



#42

Bromodichloromethane

Concen: 8.259 ppbv

RT: 7.87 min Scan# 1534

Delta R.T. 0.00 min

Lab File: VL034093.D

Acq: 5 Aug 2019 18:07

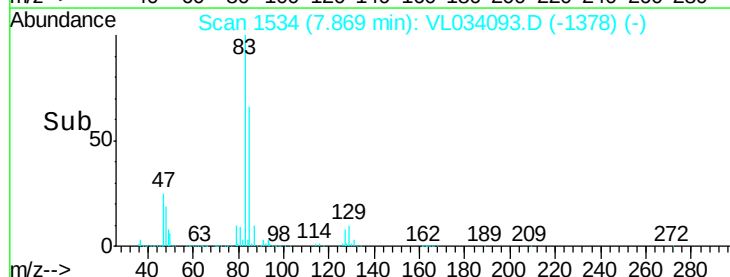
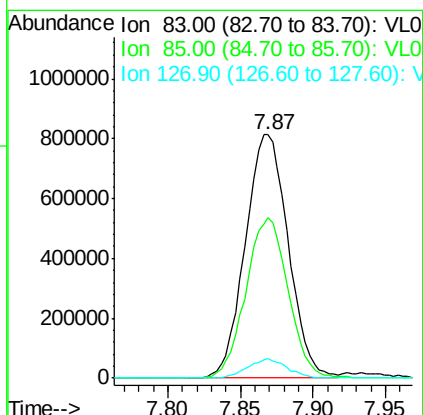
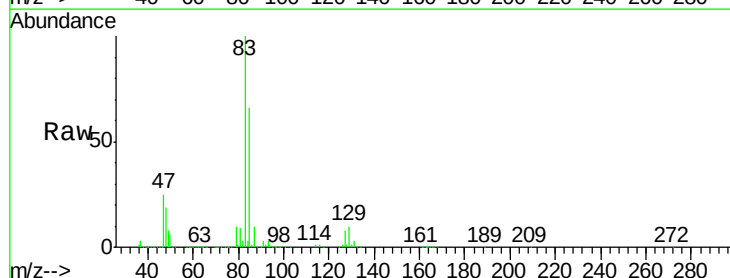
Tgt Ion: 83 Resp: 1677022

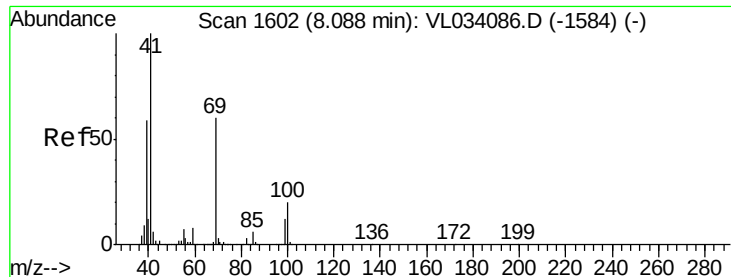
Ion Ratio Lower Upper

83 100

85 65.7 50.9 76.3

127 7.8 6.1 9.1

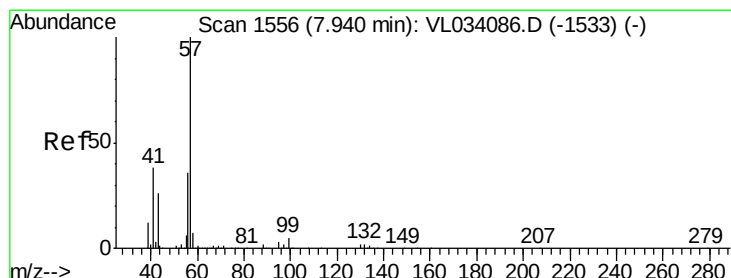
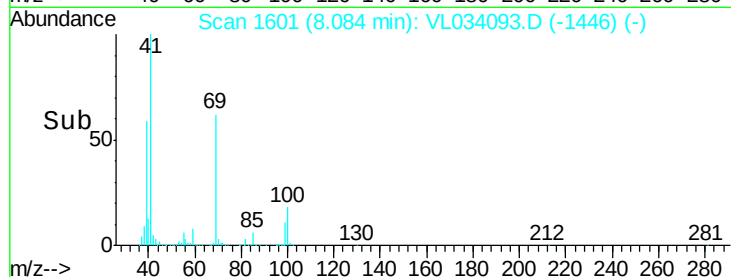
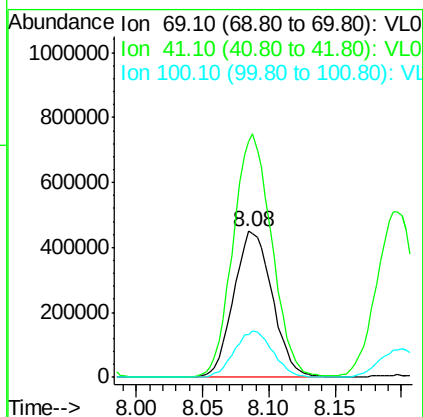
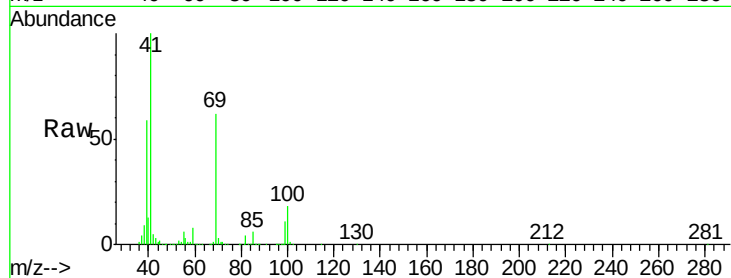




#43
Methyl Methacrylate
Concen: 8.225 ppbv
RT: 8.08 min Scan# 1601
Delta R.T. -0.00 min
Lab File: VL034093.D
Acq: 5 Aug 2019 18:07

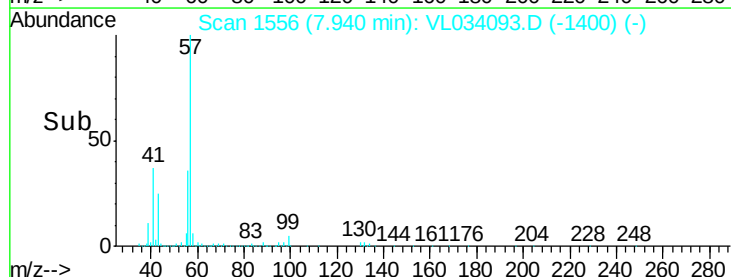
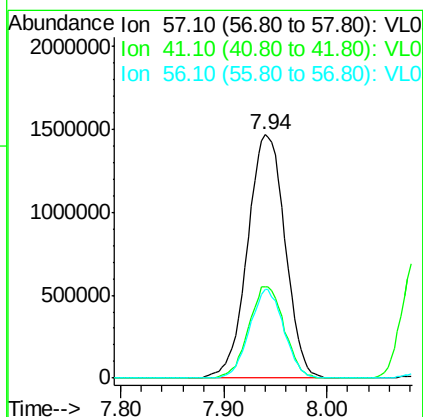
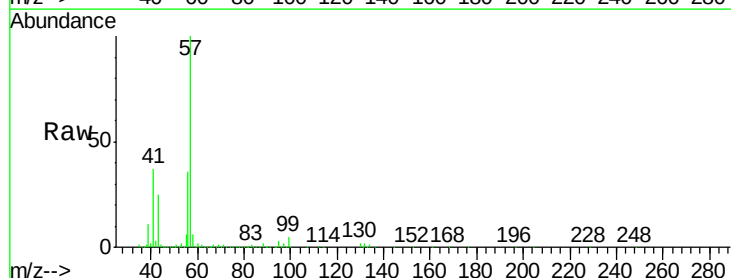
Instrument :
MSVOA_L
ClientSampleId :
ICVVL080519

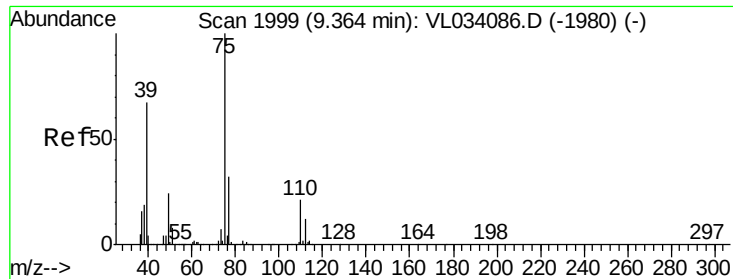
Tot Ion: 69 Resp: 908240
Ion Ratio Lower Upper
69 100
41 166.6 132.9 199.3
100 31.8 25.8 38.8



#44
2,2,4-Trimethylpentane
Concen: 7.686 ppbv
RT: 7.94 min Scan# 1556
Delta R.T. 0.00 min
Lab File: VL034093.D
Acq: 5 Aug 2019 18:07

Tgt Ion: 57 Resp: 3704737
Ion Ratio Lower Upper
57 100
41 35.5 29.2 43.8
56 33.3 26.7 40.1





#45

t-1,3-Dichloropropene

Concen: 8.525 ppbv

RT: 9.36 min Scan# 1999

Delta R.T. 0.00 min

Lab File: VL034093.D

Acq: 5 Aug 2019 18:07

Instrument :

MSVOA_L

ClientSampleId :

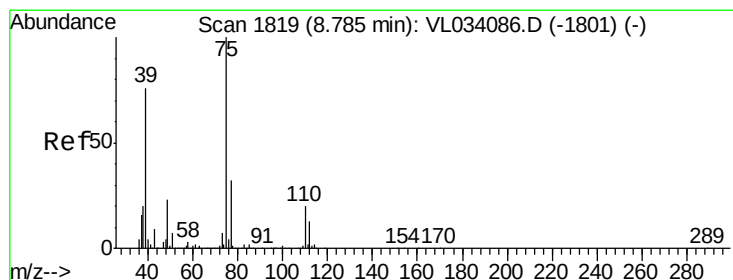
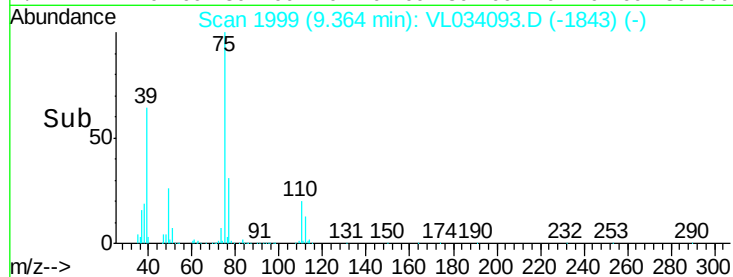
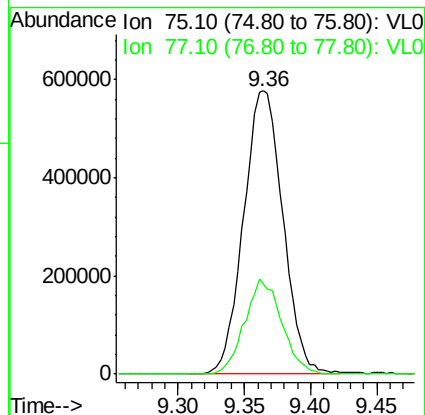
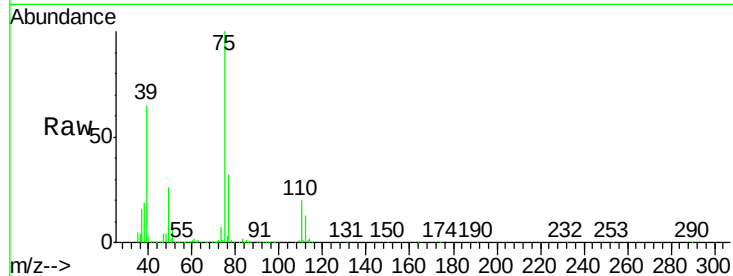
ICVVL080519

Tot Ion: 75 Resp: 1193300

Ion Ratio Lower Upper

75 100

77 31.7 25.7 38.5



#46

cis-1,3-Dichloropropene

Concen: 8.353 ppbv

RT: 8.79 min Scan# 1819

Delta R.T. 0.00 min

Lab File: VL034093.D

Acq: 5 Aug 2019 18:07

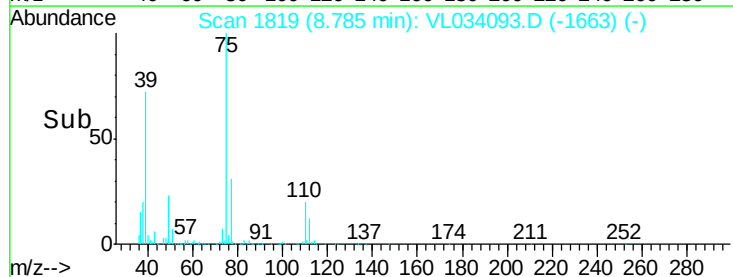
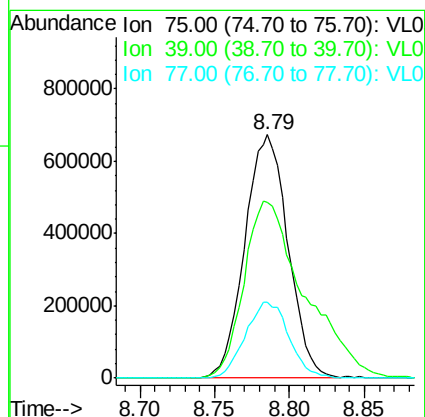
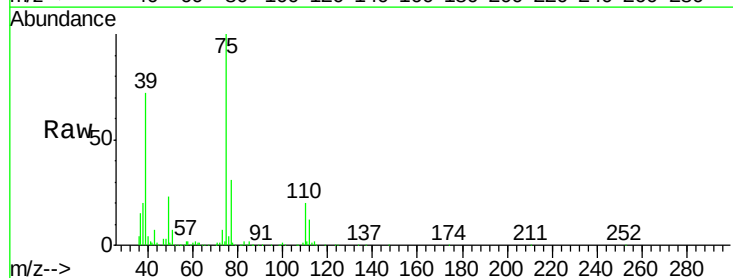
Tgt Ion: 75 Resp: 1349425

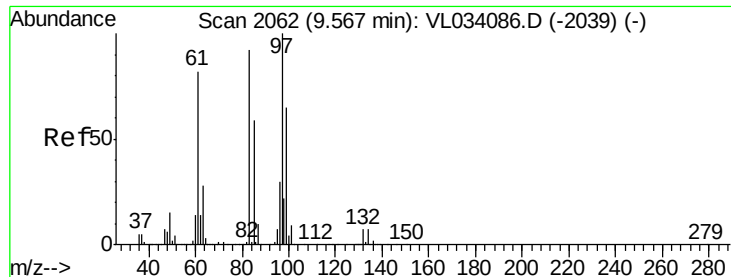
Ion Ratio Lower Upper

75 100

39 72.0 61.0 91.4

77 31.1 25.6 38.4





#47

1,1,2-Trichloroethane

Concen: 8.235 ppbv

RT: 9.56 min Scan# 2061

Delta R.T. -0.00 min

Lab File: VL034093.D

Acq: 5 Aug 2019 18:07

Instrument :

MSVOA_L

ClientSampleId :

ICVVL080519

Tot Ion: 97 Resp: 855181

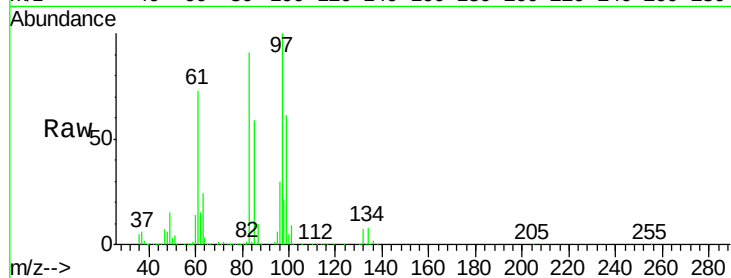
Ion Ratio Lower Upper

97 100

83 90.7 74.0 111.0

85 59.3 47.1 70.7

99 61.0 51.9 77.9

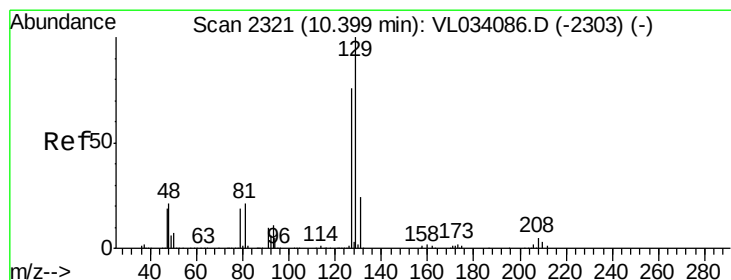
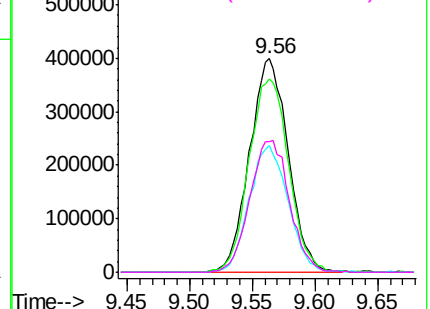
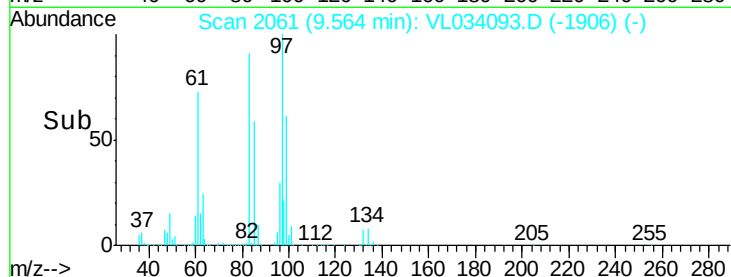


Abundance Ion 97.00 (96.70 to 97.70): VL0

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: 8.166 ppbv

RT: 10.40 min Scan# 2321

Delta R.T. 0.00 min

Lab File: VL034093.D

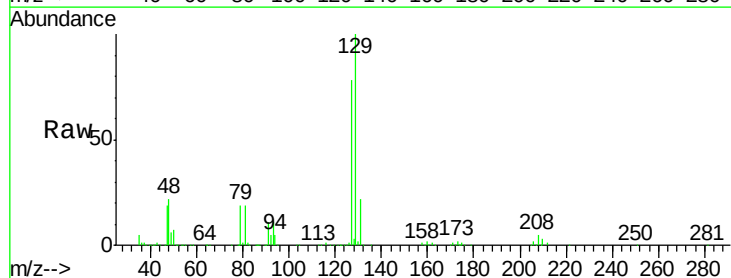
Acq: 5 Aug 2019 18:07

Tgt Ion: 129 Resp: 1359708

Ion Ratio Lower Upper

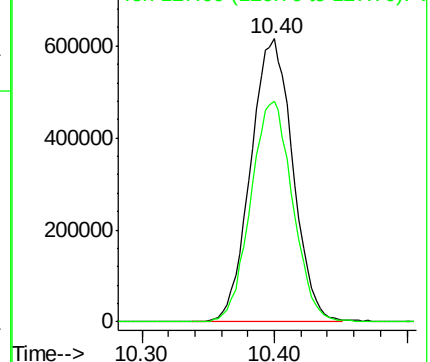
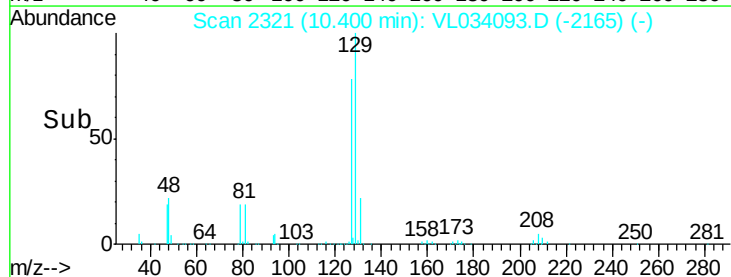
129 100

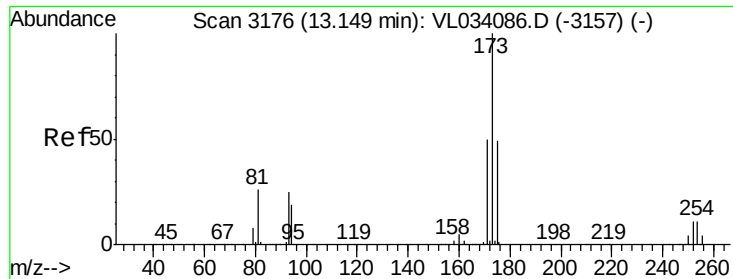
127 77.9 39.4 118.2



Abundance Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V





#49

Bromoform

Concen: 8.246 ppbv

RT: 13.15 min Scan# 3175

Delta R.T. -0.00 min

Lab File: VL034093.D

Acq: 5 Aug 2019 18:07

Instrument :

MSVOA_L

ClientSampleId :

ICVVL080519

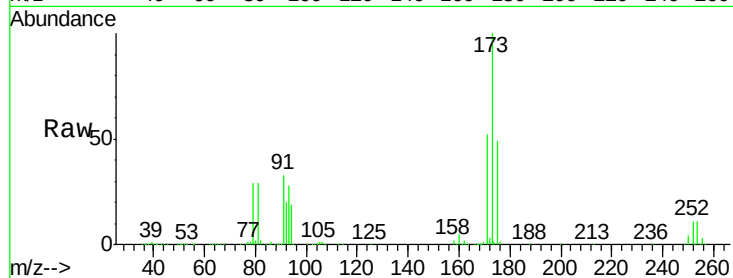
Tot Ion:173 Resp: 1227641

Ion Ratio Lower Upper

173 100

175 49.9 39.8 59.8

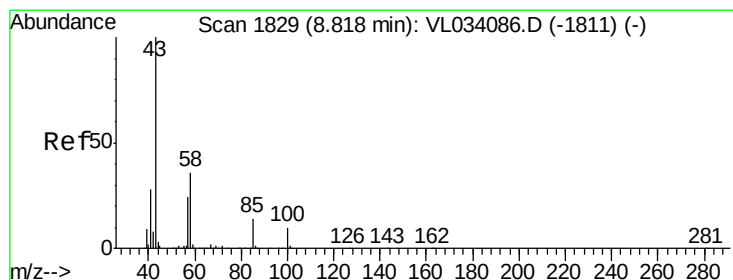
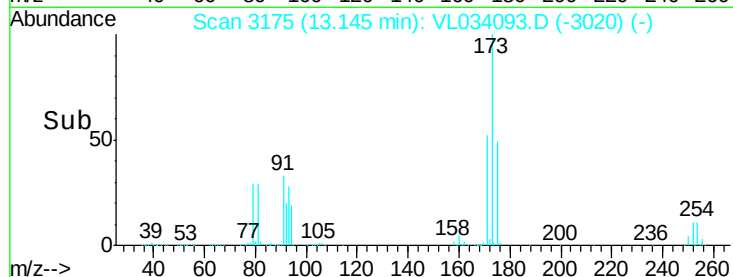
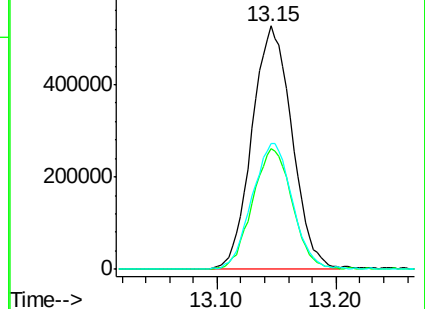
171 52.4 42.7 64.1



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: 7.844 ppbv

RT: 8.82 min Scan# 1829

Delta R.T. 0.00 min

Lab File: VL034093.D

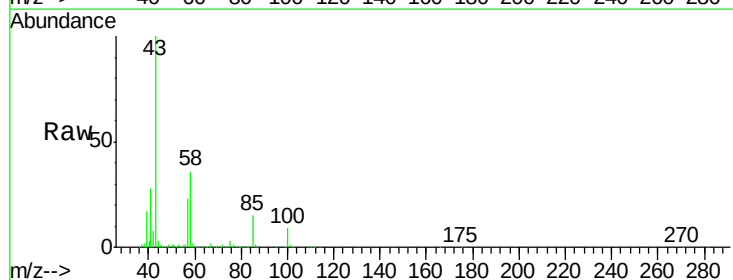
Acq: 5 Aug 2019 18:07

Tgt Ion: 43 Resp: 2628764

Ion Ratio Lower Upper

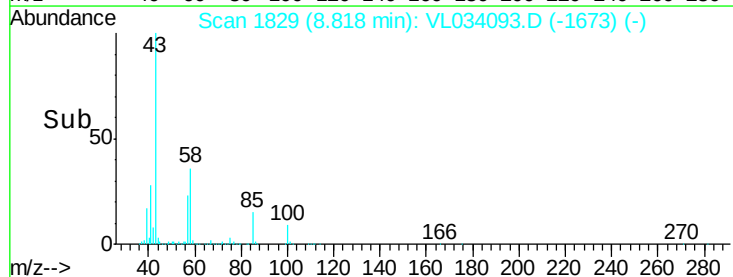
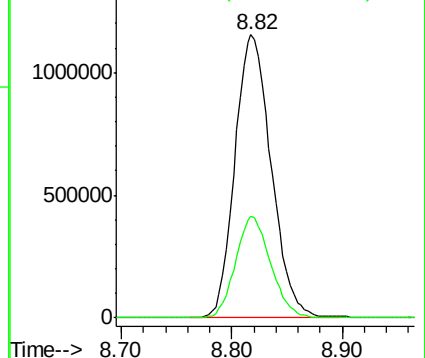
43 100

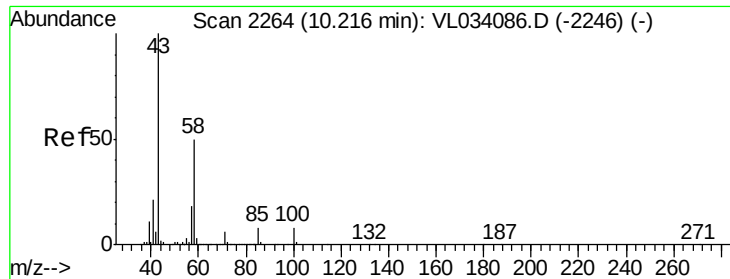
58 34.8 28.2 42.2



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

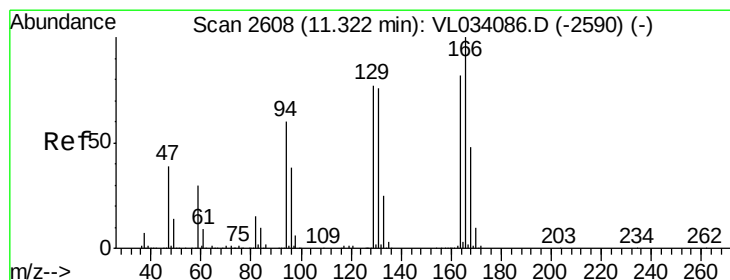
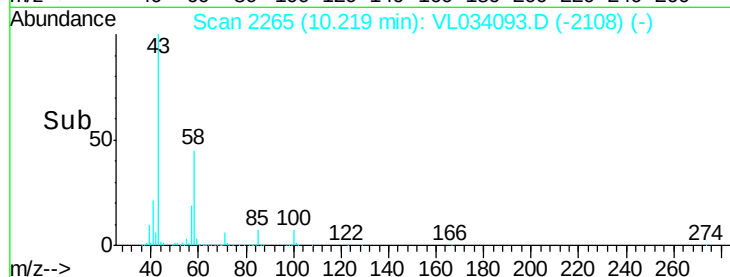
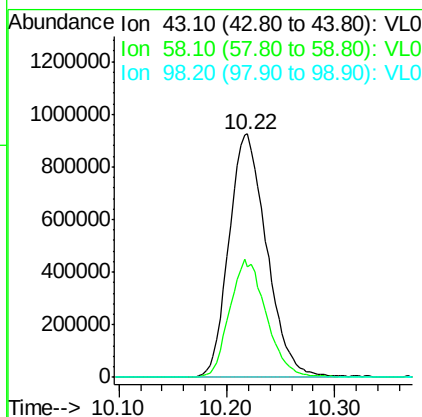
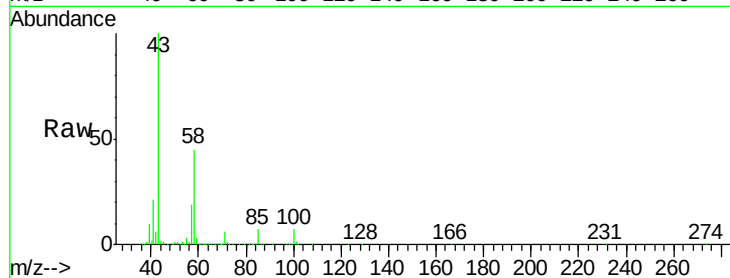




#51
2-Hexanone
Concen: 7.985 ppbv
RT: 10.22 min Scan# 2265
Delta R.T. 0.00 min
Lab File: VL034093.D
Acq: 5 Aug 2019 18:07

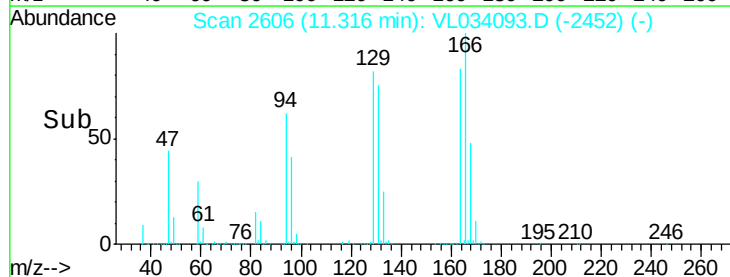
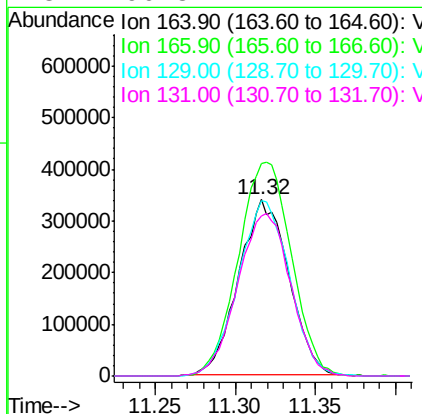
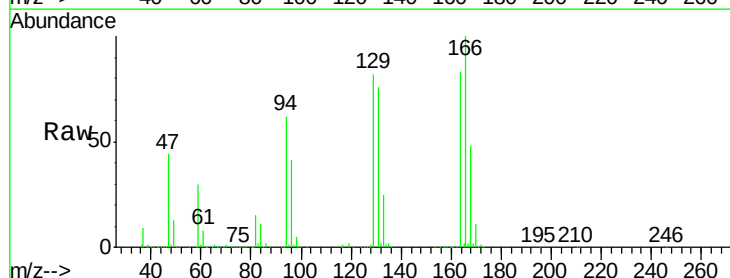
Instrument :
MSVOA_L
ClientSampleId :
ICVVL080519

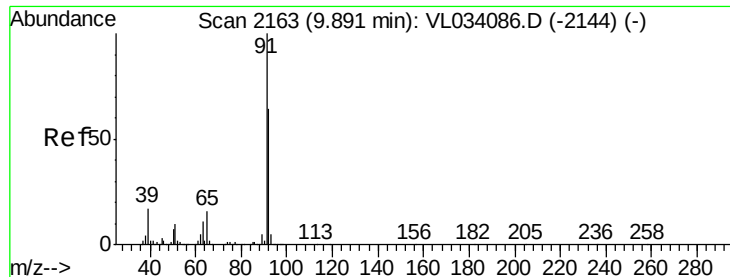
Tot Ion: 43 Resp: 2248930
Ion Ratio Lower Upper
43 100
58 47.2 38.5 57.7
98 0.0 0.0 0.0#



#52
Tetrachloroethene
Concen: 7.029 ppbv
RT: 11.32 min Scan# 2606
Delta R.T. -0.01 min
Lab File: VL034093.D
Acq: 5 Aug 2019 18:07

Tgt Ion: 164 Resp: 730784
Ion Ratio Lower Upper
164 100
166 120.3 96.8 145.2
129 99.3 74.9 112.3
131 90.8 74.2 111.2





#53

Toluene

Concen: 7.922 ppbv

RT: 9.89 min Scan# 2164

Delta R.T. 0.00 min

Lab File: VL034093.D

Acq: 5 Aug 2019 18:07

Instrument :

MSVOA_L

ClientSampleId :

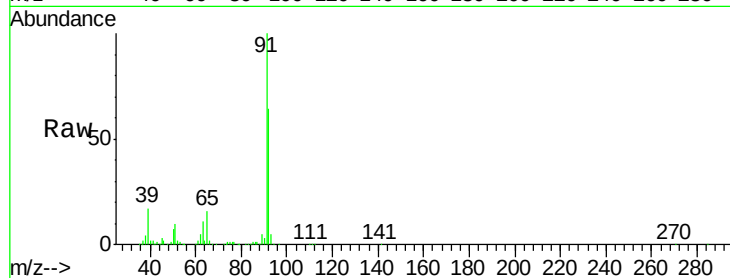
ICVVL080519

Tot Ion: 91 Resp: 2461085

Ion Ratio Lower Upper

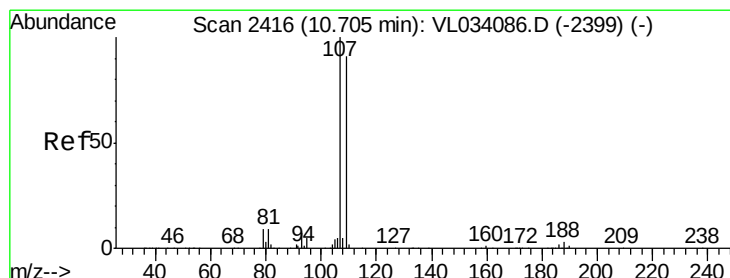
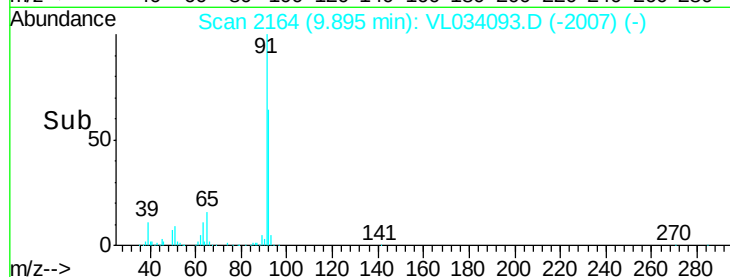
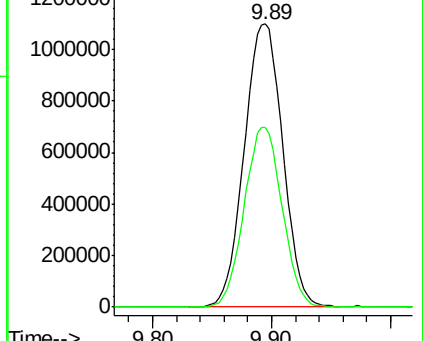
91 100

92 62.7 50.3 75.5



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0



#54

1,2-Dibromoethane

Concen: 8.146 ppbv

RT: 10.70 min Scan# 2416

Delta R.T. 0.00 min

Lab File: VL034093.D

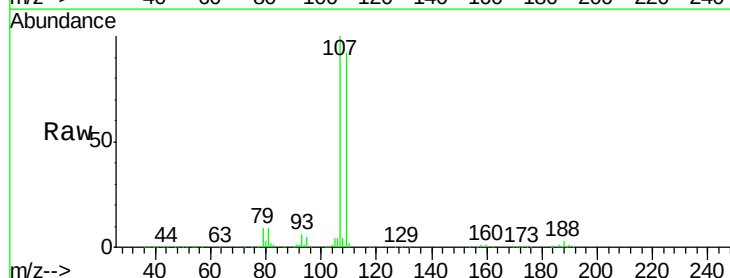
Acq: 5 Aug 2019 18:07

Tgt Ion: 107 Resp: 1281549

Ion Ratio Lower Upper

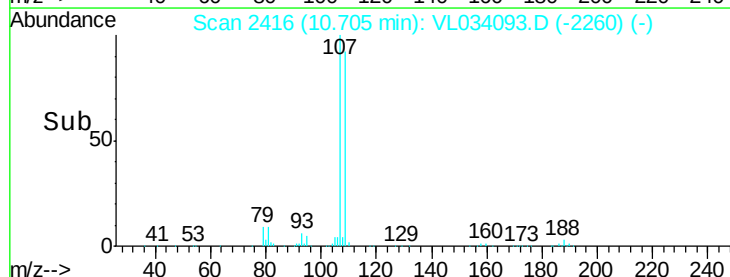
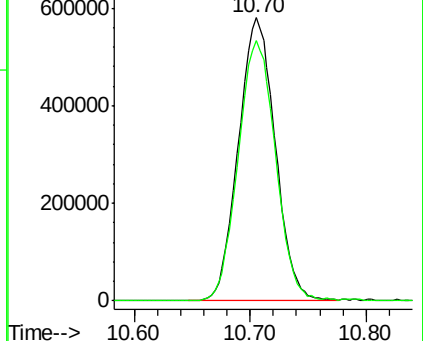
107 100

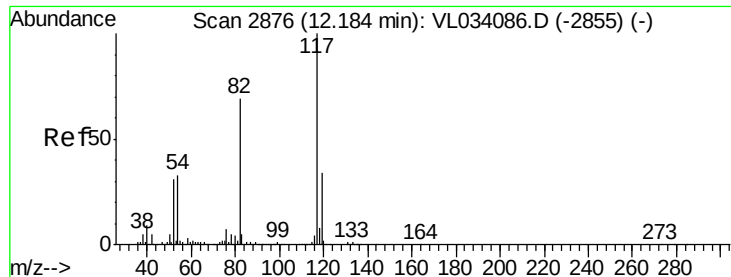
109 92.1 72.9 109.3



Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.18 min Scan# 2876

Delta R.T. 0.00 min

Lab File: VL034093.D

Acq: 5 Aug 2019 18:07

Instrument :

MSVOA_L

ClientSampleId :

ICVVL080519

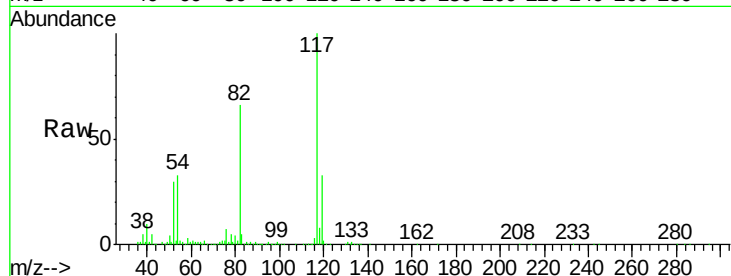
Tot Ion:117 Resp: 2995162

Ion Ratio Lower Upper

117 100

82 58.4 52.2 78.4

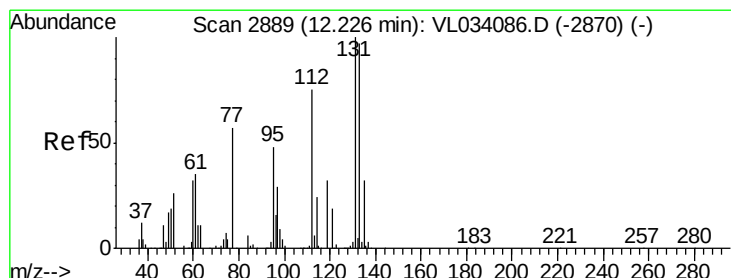
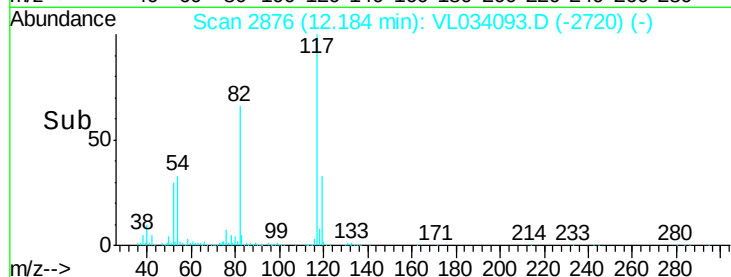
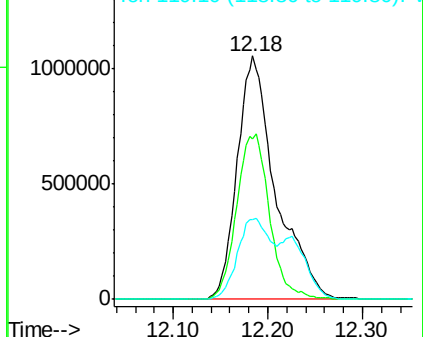
119 46.7 44.8 67.2



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: 6.595 ppbv

RT: 12.22 min Scan# 2888

Delta R.T. -0.00 min

Lab File: VL034093.D

Acq: 5 Aug 2019 18:07

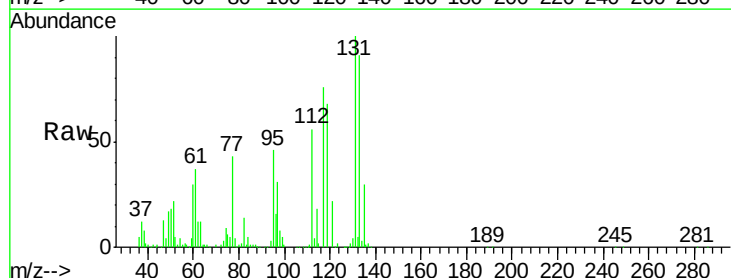
Tgt Ion:131 Resp: 903091

Ion Ratio Lower Upper

131 100

133 96.9 76.5 114.7

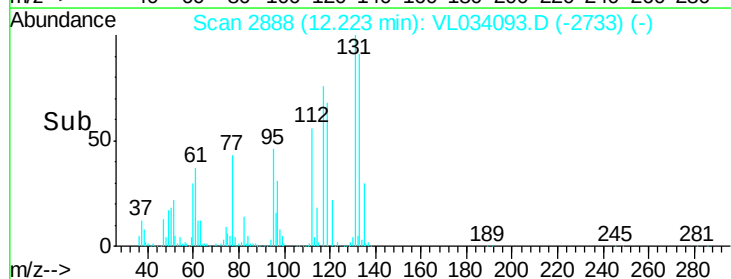
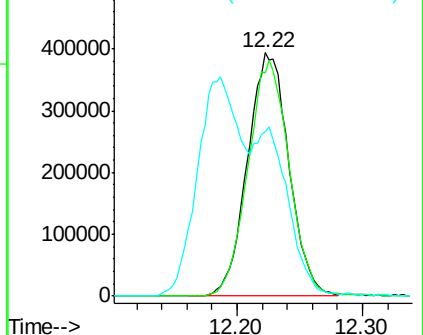
119 154.6 114.7 172.1

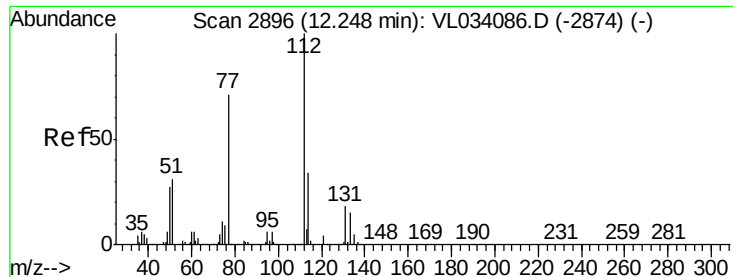


Abundance Ion 131.00 (130.70 to 131.70): V

Ion 133.00 (132.70 to 133.70): V

Ion 119.00 (118.70 to 119.70): V

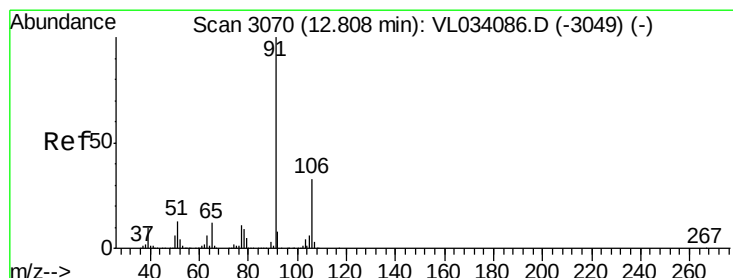
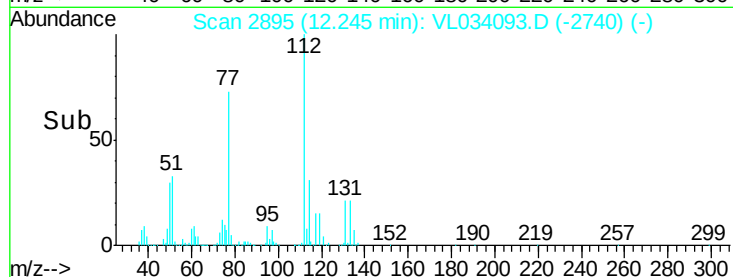
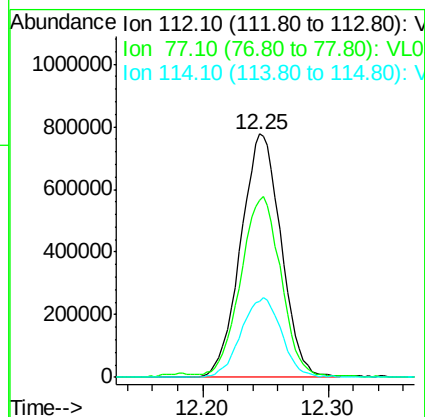
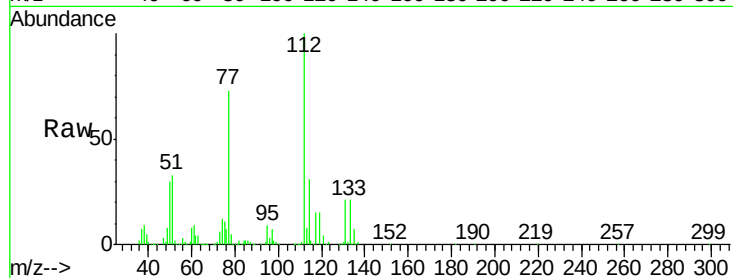




#57
Chlorobenzene
Concen: 6.424 ppbv
RT: 12.25 min Scan# 2895
Delta R.T. -0.00 min
Lab File: VL034093.D
Acq: 5 Aug 2019 18:07

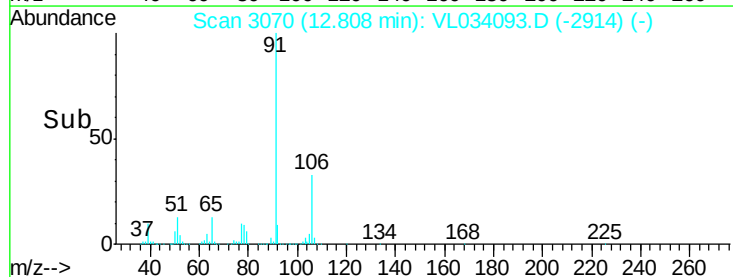
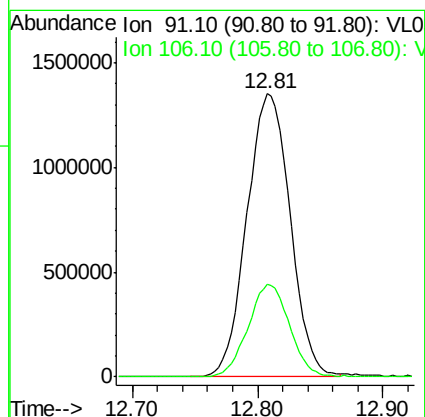
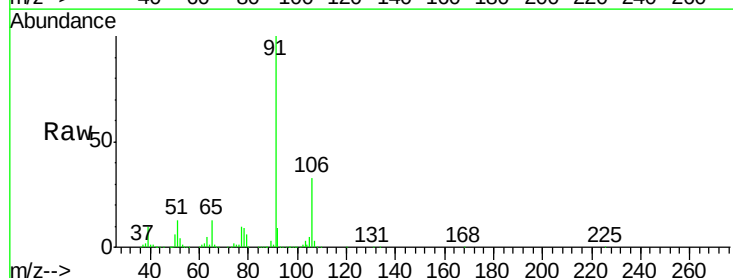
Instrument :
MSVOA_L
ClientSampleId :
ICVVL080519

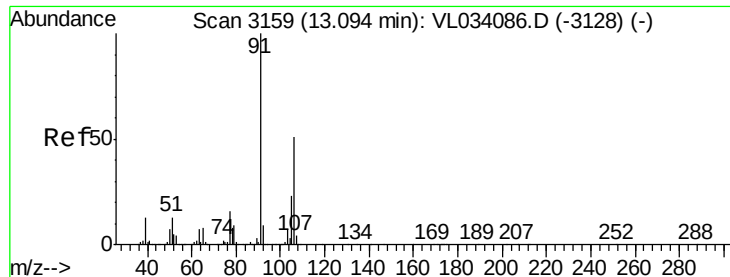
Tot Ion:112 Resp: 1732817
Ion Ratio Lower Upper
112 100
77 72.5 57.8 86.6
114 31.1 30.3 37.1



#58
Ethyl Benzene
Concen: 6.447 ppbv
RT: 12.81 min Scan# 3070
Delta R.T. 0.00 min
Lab File: VL034093.D
Acq: 5 Aug 2019 18:07

Tgt Ion: 91 Resp: 3246890
Ion Ratio Lower Upper
91 100
106 32.8 26.0 39.0





#59

m/p-Xylene

Concen: 5.911 ppbv

RT: 13.09 min Scan# 3159

Delta R.T. 0.00 min

Lab File: VL034093.D

Acq: 5 Aug 2019 18:07

Instrument :

MSVOA_L

ClientSampleId :

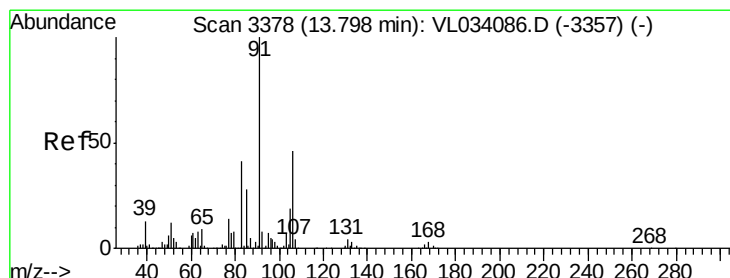
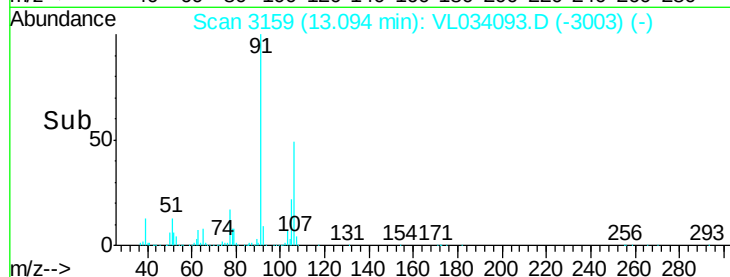
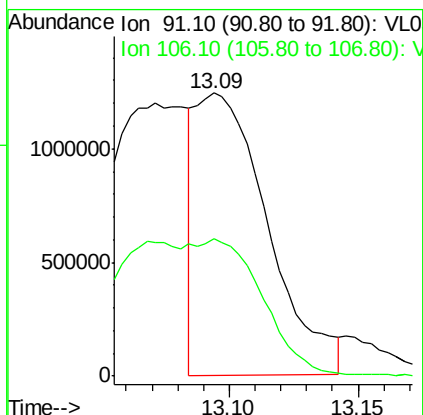
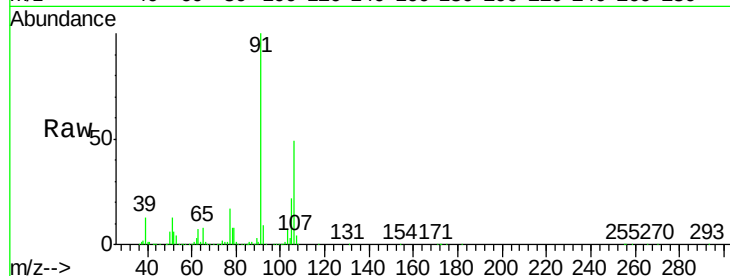
ICVVL080519

Tot Ion: 91 Resp: 2389532

Ion Ratio Lower Upper

91 100

106 102.4 38.7 58.1#



#60

o-Xylene

Concen: 6.370 ppbv

RT: 13.79 min Scan# 3377

Delta R.T. -0.00 min

Lab File: VL034093.D

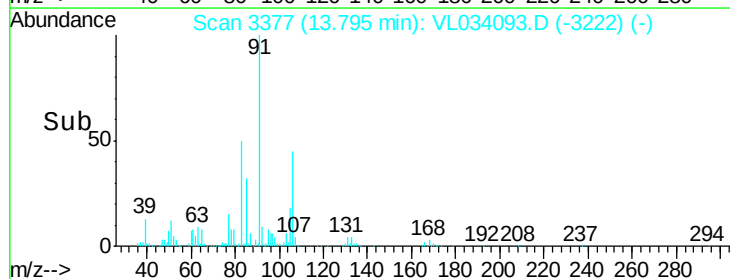
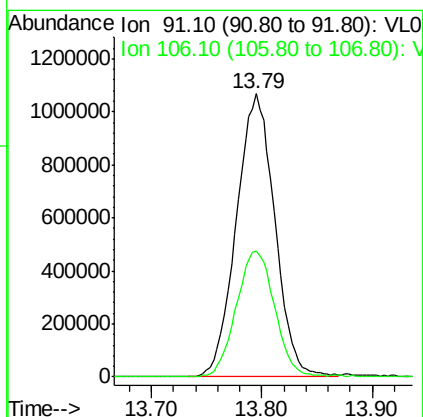
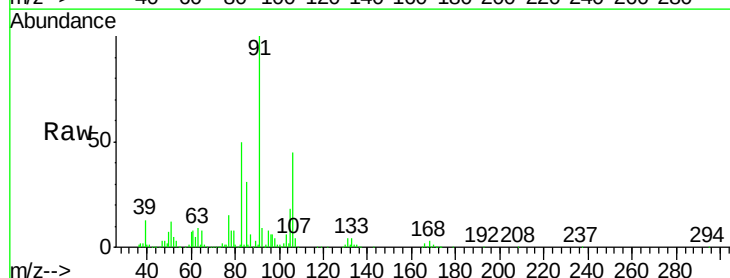
Acq: 5 Aug 2019 18:07

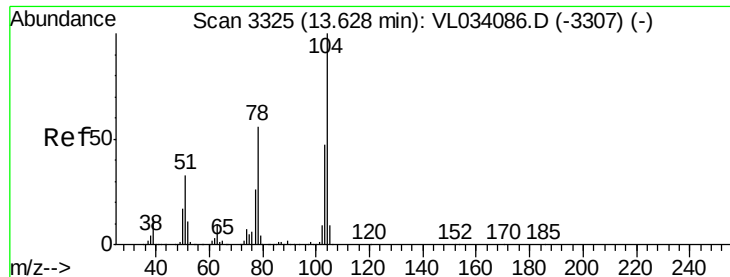
Tgt Ion: 91 Resp: 2573650

Ion Ratio Lower Upper

91 100

106 45.1 22.6 67.7

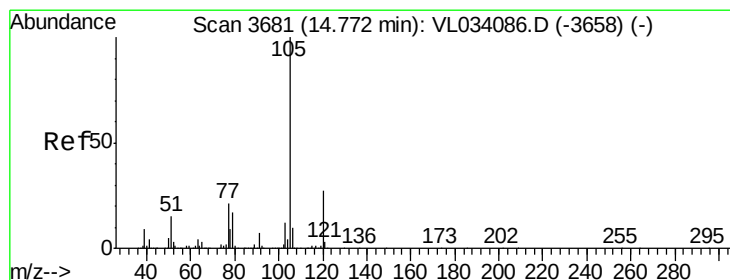
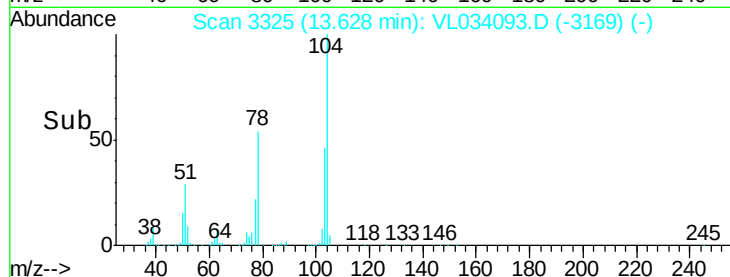
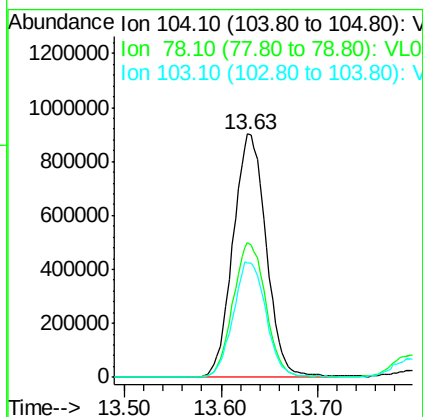
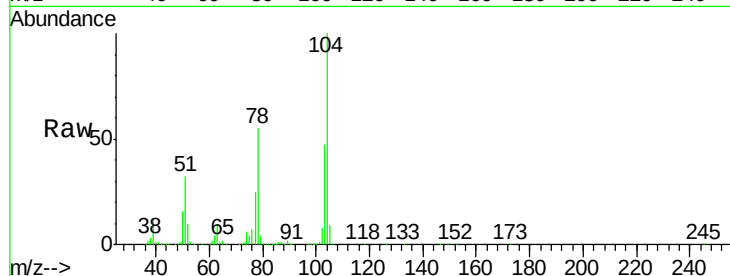




#61
Stvrene
Concen: 6.705 ppbv
RT: 13.63 min Scan# 3325
Delta R.T. 0.00 min
Lab File: VL034093.D
Acq: 5 Aug 2019 18:07

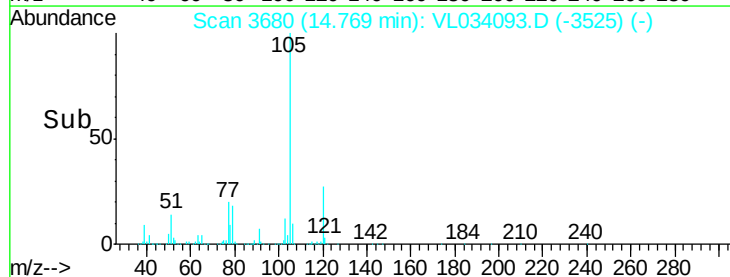
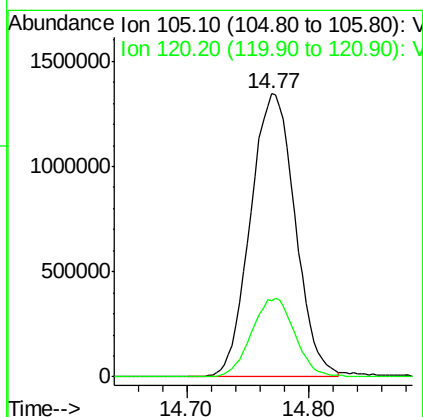
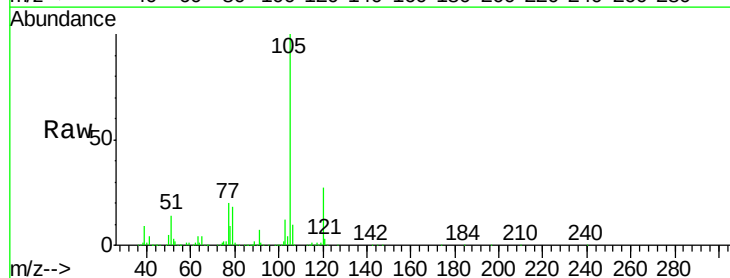
Instrument :
MSVOA_L
ClientSampleId :
ICVVL080519

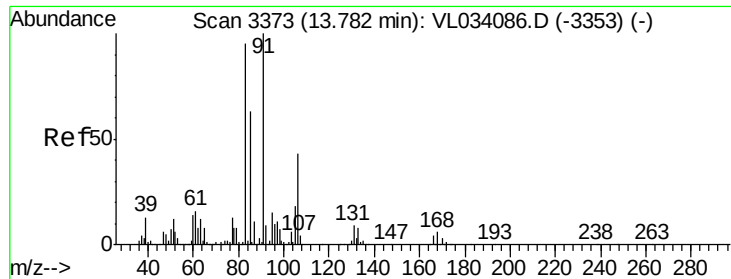
Tot Ion:104 Resp: 2150007
Ion Ratio Lower Upper
104 100
78 54.9 44.2 66.4
103 47.3 38.3 57.5



#62
Isopropylbenzene
Concen: 6.295 ppbv
RT: 14.77 min Scan# 3680
Delta R.T. -0.00 min
Lab File: VL034093.D
Acq: 5 Aug 2019 18:07

Tgt Ion:105 Resp: 3413818
Ion Ratio Lower Upper
105 100
120 26.8 21.4 32.2





#63

1,1,2,2-Tetrachloroethane

Concen: 6.267 ppbv

RT: 13.78 min Scan# 3372

Delta R.T. -0.00 min

Lab File: VL034093.D

Acq: 5 Aug 2019 18:07

Instrument :

MSVOA_L

ClientSampleId :

ICVVL080519

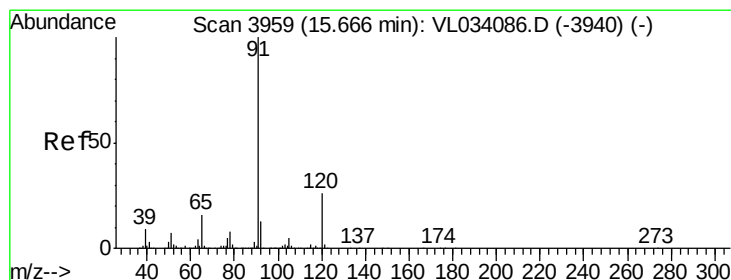
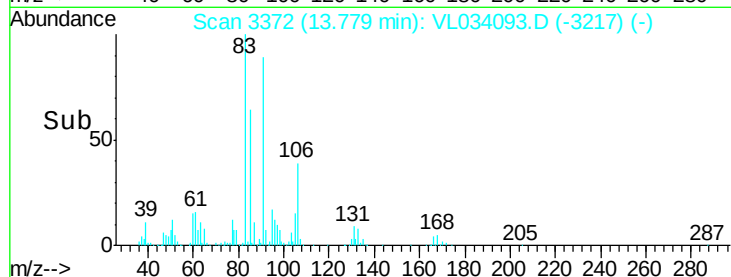
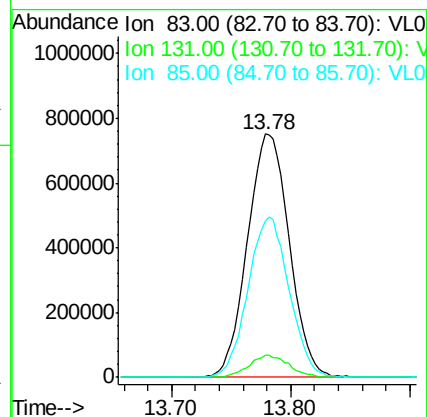
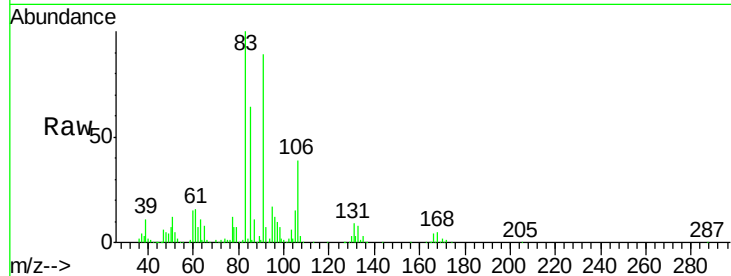
Tot Ion: 83 Resp: 1828810

Ion	Ratio	Lower	Upper
83	100		
131	8.7	4.6	13.8
85	65.0	32.6	97.8

83 100

131 8.7 4.6 13.8

85 65.0 32.6 97.8



#64

n-propylbenzene

Concen: 6.532 ppbv

RT: 15.67 min Scan# 3960

Delta R.T. 0.00 min

Lab File: VL034093.D

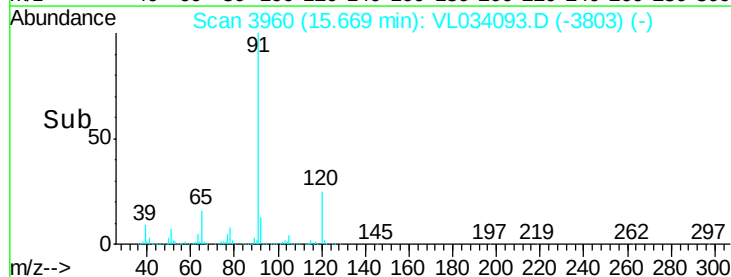
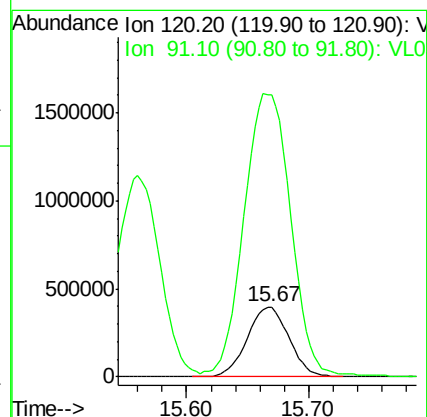
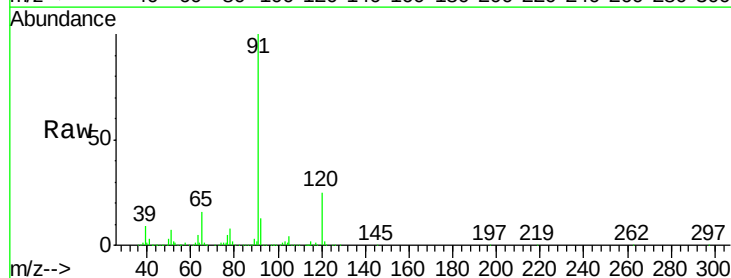
Acq: 5 Aug 2019 18:07

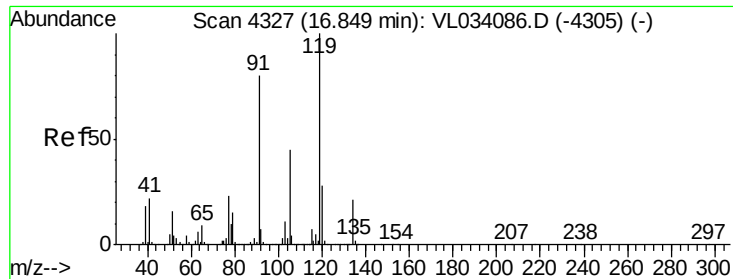
Tgt Ion: 120 Resp: 936279

Ion	Ratio	Lower	Upper
120	100		
91	456.7	359.7	539.5

120 100

91 456.7 359.7 539.5





#65

tert-Butylbenzene

Concen: 6.207 ppbv

RT: 16.85 min Scan# 4328

Delta R.T. 0.00 min

Lab File: VL034093.D

Acq: 5 Aug 2019 18:07

Instrument :

MSVOA_L

ClientSampleId :

ICVVL080519

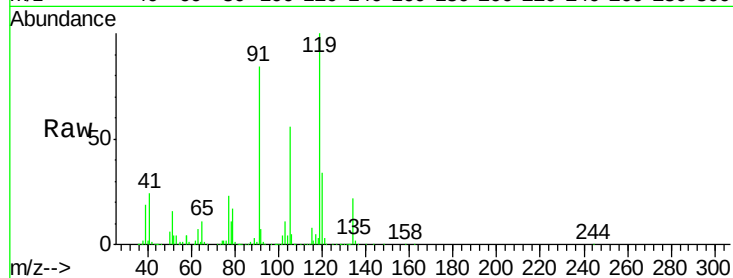
Tot Ion:119 Resp: 2998539

Ion Ratio Lower Upper

119 100

91 86.0 67.6 101.4

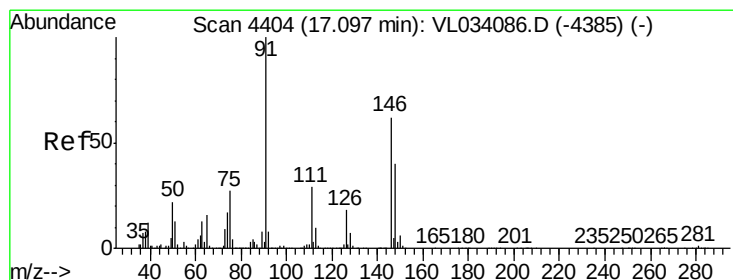
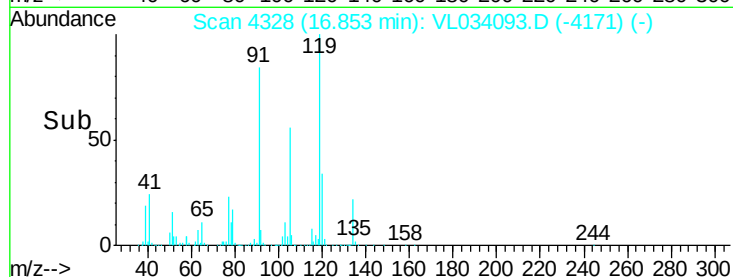
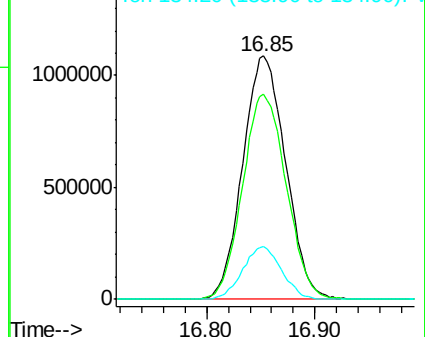
134 19.9 16.0 24.0



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: 6.908 ppbv

RT: 17.10 min Scan# 4406

Delta R.T. 0.01 min

Lab File: VL034093.D

Acq: 5 Aug 2019 18:07

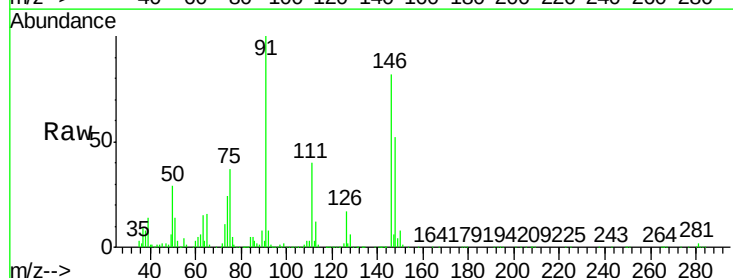
Tgt Ion: 91 Resp: 1847132

Ion Ratio Lower Upper

91 100

126 18.0 14.8 22.2

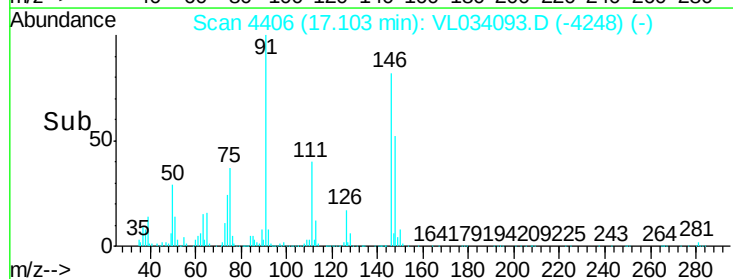
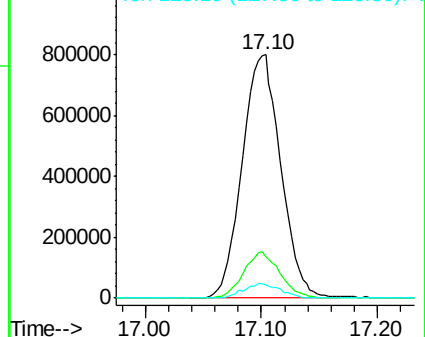
128 5.8 4.8 7.2

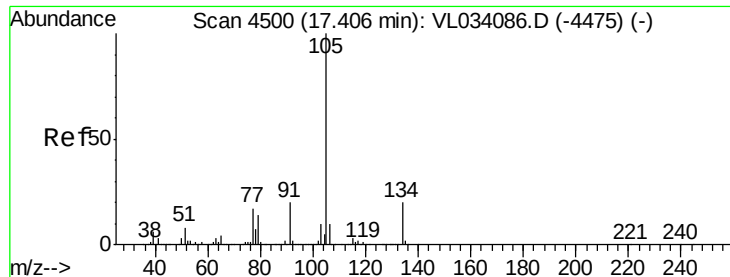


Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 126.10 (125.80 to 126.80): V

Ion 128.10 (127.80 to 128.80): V





#67

sec-Butylbenzene

Concen: 6.162 ppbv

RT: 17.40 min Scan# 4499

Delta R.T. -0.00 min

Lab File: VL034093.D

Acq: 5 Aug 2019 18:07

Instrument :

MSVOA_L

ClientSampleId :

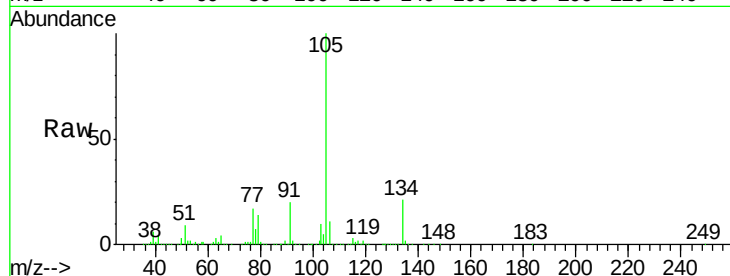
ICVVL080519

Tot Ion:105 Resp: 4201255

Ion Ratio Lower Upper

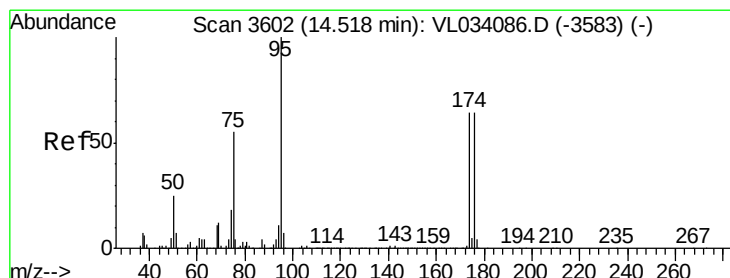
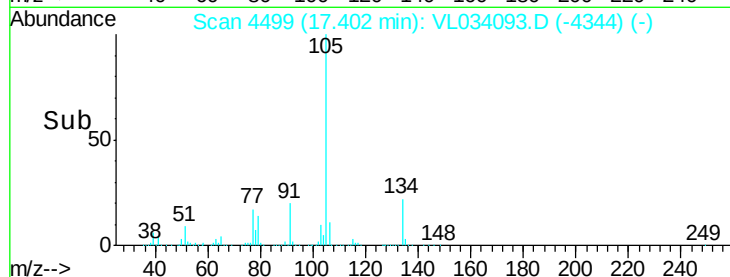
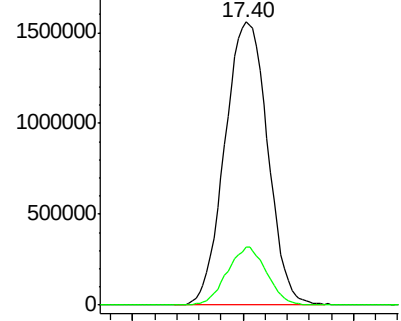
105 100

134 19.2 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: 8.347 ppbv

RT: 14.52 min Scan# 3603

Delta R.T. 0.00 min

Lab File: VL034093.D

Acq: 5 Aug 2019 18:07

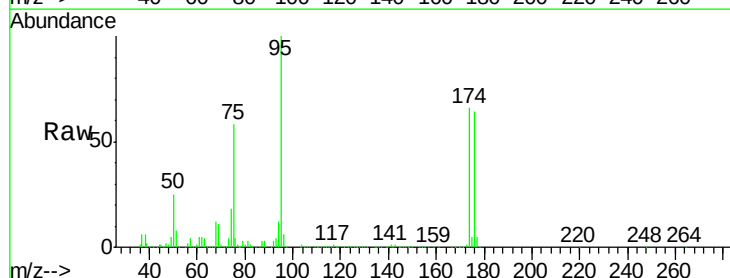
Tgt Ion: 95 Resp: 2028585

Ion Ratio Lower Upper

95 100

174 66.7 53.0 79.6

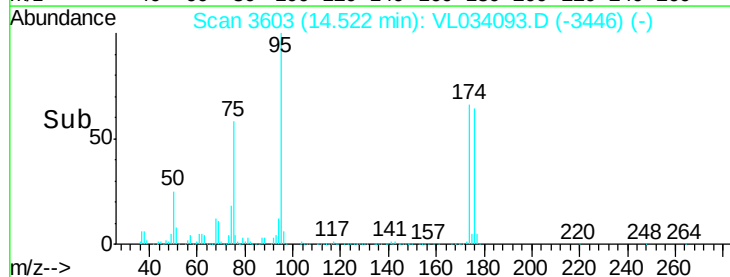
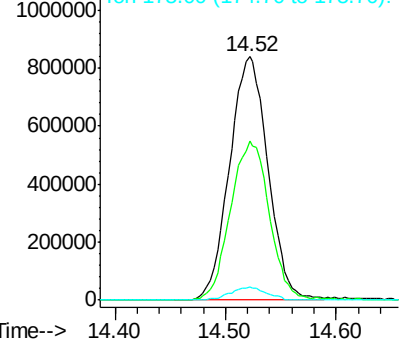
175 5.2 4.2 6.2

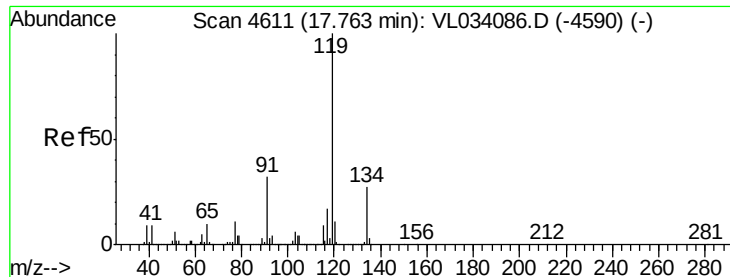


Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V

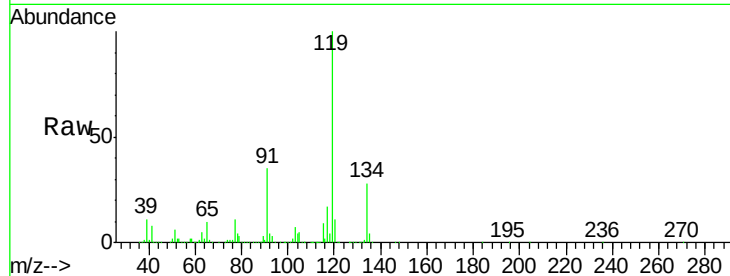




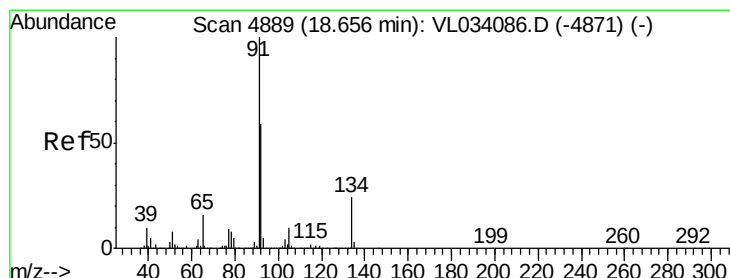
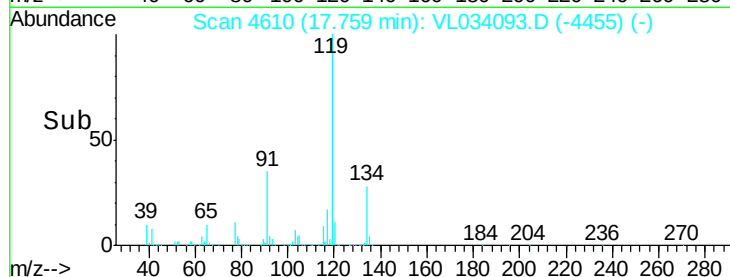
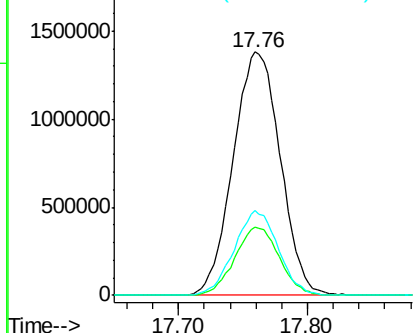
#69
 p-Isopropyltoluene
 Concen: 6.212 ppbv
 RT: 17.76 min Scan# 4610
 Delta R.T. -0.00 min
 Lab File: VL034093.D
 Acq: 5 Aug 2019 18:07

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL080519

Tot Ion:119 Resp: 3493154
 Ion Ratio Lower Upper
 119 100
 134 26.8 21.3 31.9
 91 32.9 25.4 38.0

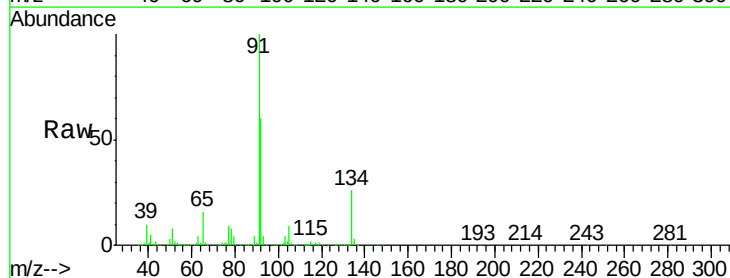


Abundance Ion 119.10 (118.80 to 119.80): V
 Ion 134.20 (133.90 to 134.90): V
 Ion 91.10 (90.80 to 91.80): V

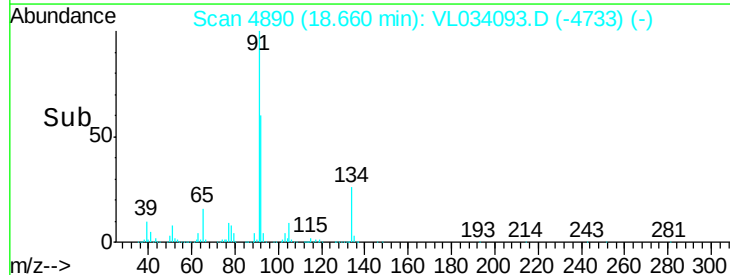
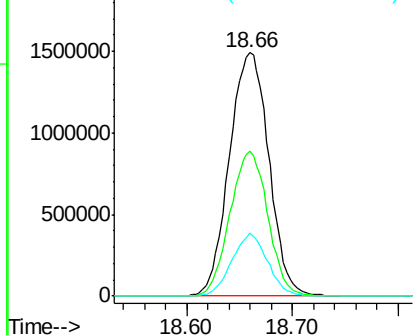


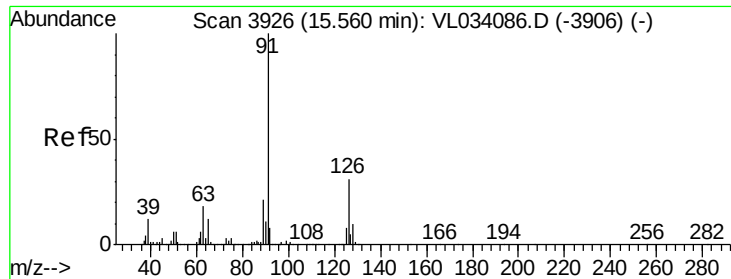
#70
 n-Butylbenzene
 Concen: 6.374 ppbv
 RT: 18.66 min Scan# 4890
 Delta R.T. 0.00 min
 Lab File: VL034093.D
 Acq: 5 Aug 2019 18:07

Tgt Ion: 91 Resp: 3866318
 Ion Ratio Lower Upper
 91 100
 92 57.3 45.9 68.9
 134 23.4 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

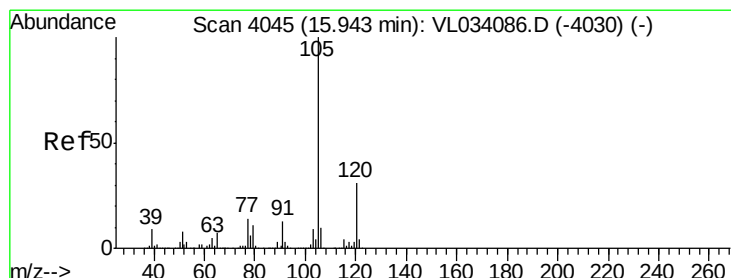
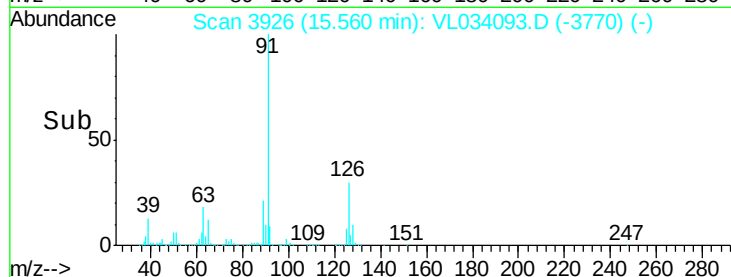
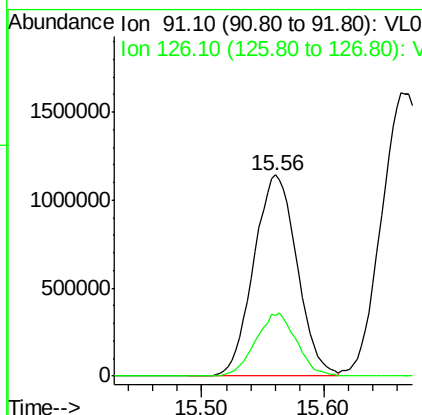
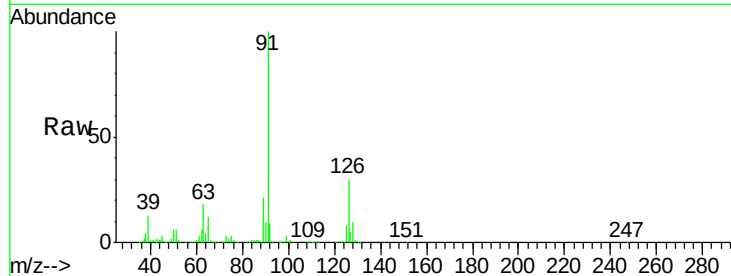




#71
2-Chlorotoluene
Concen: 6.443 ppbv
RT: 15.56 min Scan# 3926
Delta R.T. 0.00 min
Lab File: VL034093.D
Acq: 5 Aug 2019 18:07

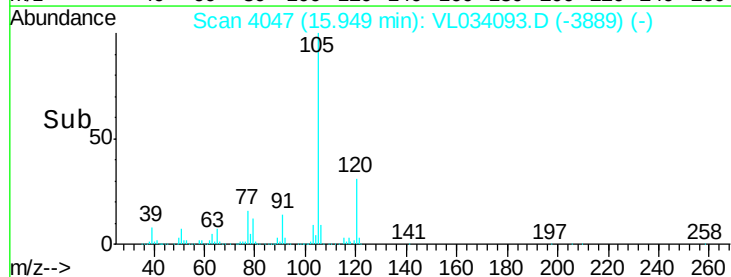
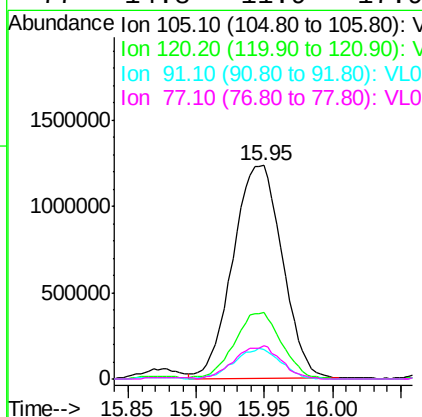
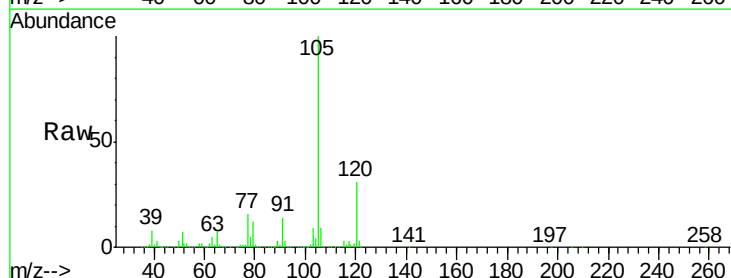
Instrument :
MSVOA_L
ClientSampleId :
ICVVL080519

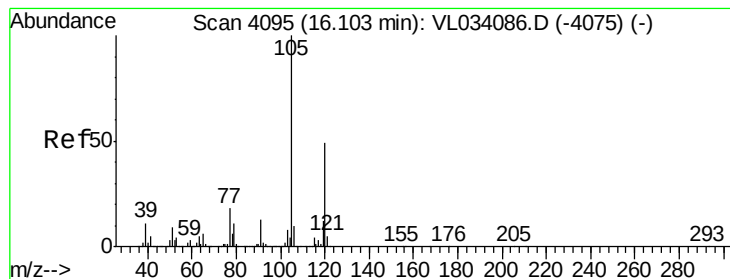
Tot Ion: 91 Resp: 2809616
Ion Ratio Lower Upper
91 100
126 29.9 12.2 48.6



#72
4-Ethyltoluene
Concen: 6.513 ppbv
RT: 15.95 min Scan# 4047
Delta R.T. 0.01 min
Lab File: VL034093.D
Acq: 5 Aug 2019 18:07

Tgt Ion:105 Resp: 3097031
Ion Ratio Lower Upper
105 100
120 29.9 24.2 36.2
91 13.5 10.5 15.7
77 14.8 11.9 17.9





#73

1,3,5-Trimethylbenzene

Concen: 6.429 ppbv

RT: 16.10 min Scan# 4095

Delta R.T. 0.00 min

Lab File: VL034093.D

Acq: 5 Aug 2019 18:07

Instrument :

MSVOA_L

ClientSampleId :

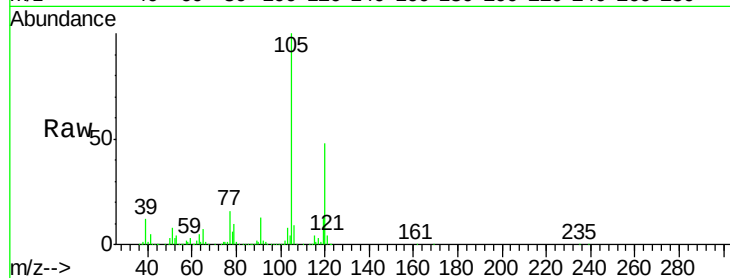
ICVVL080519

Tot Ion:105 Resp: 2940857

Ion Ratio Lower Upper

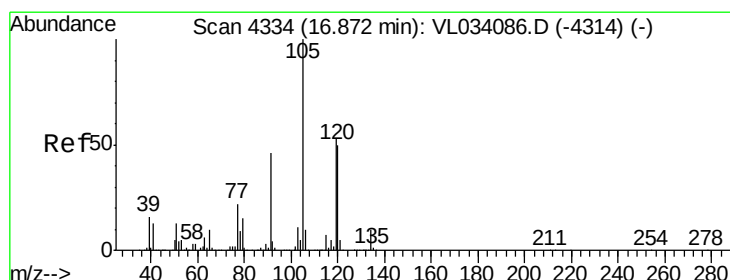
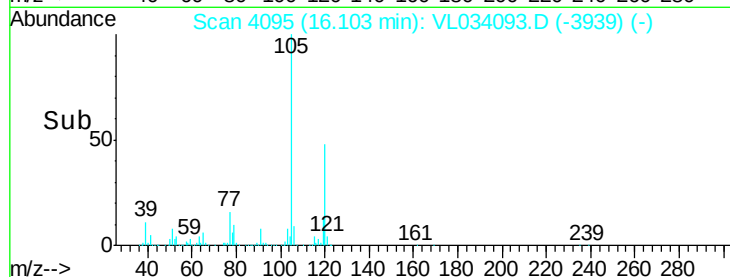
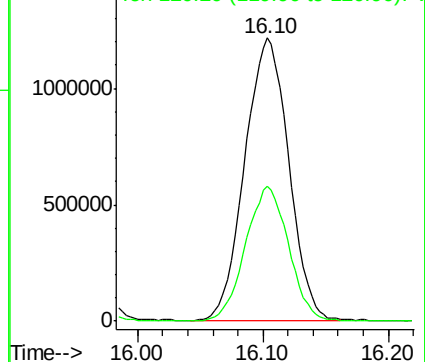
105 100

120 47.8 39.0 58.4



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V



#74

1,2,4-Trimethylbenzene

Concen: 6.198 ppbv

RT: 16.88 min Scan# 4335

Delta R.T. 0.00 min

Lab File: VL034093.D

Acq: 5 Aug 2019 18:07

Tgt Ion:105 Resp: 2949326

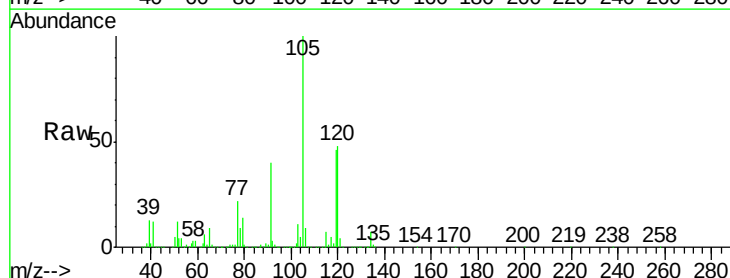
Ion Ratio Lower Upper

105 100

120 47.5 40.2 60.4

91 39.4 38.1 57.1

77 21.5 17.8 26.8

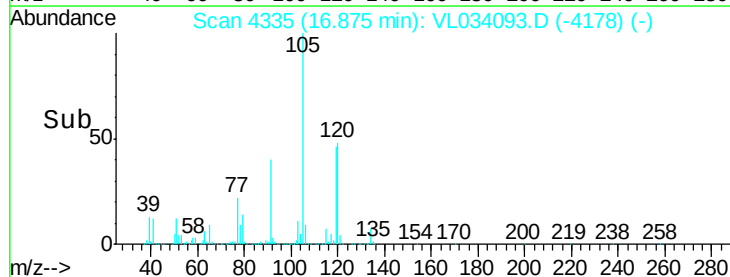
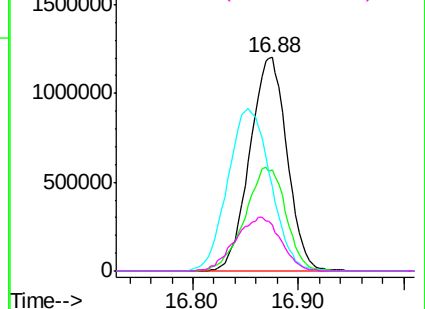


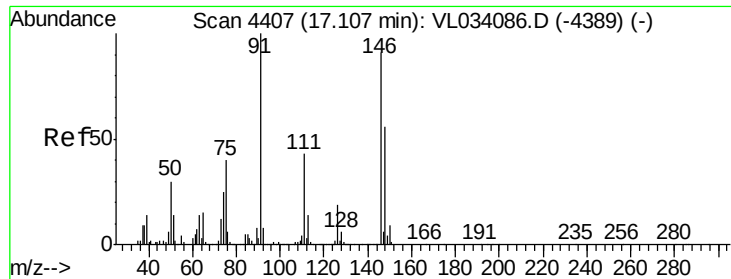
Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

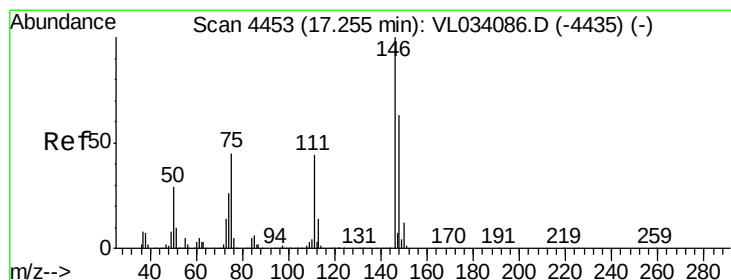
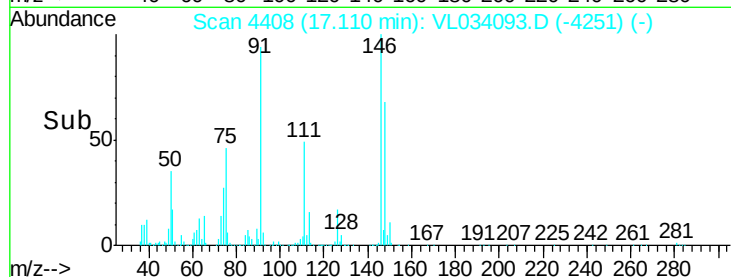
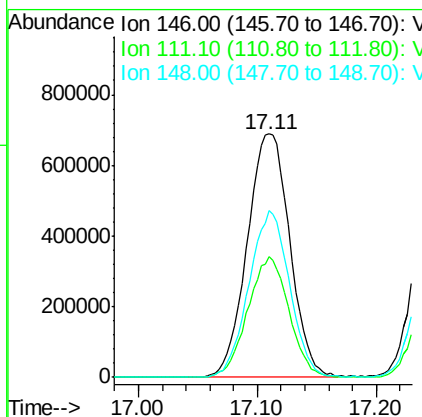
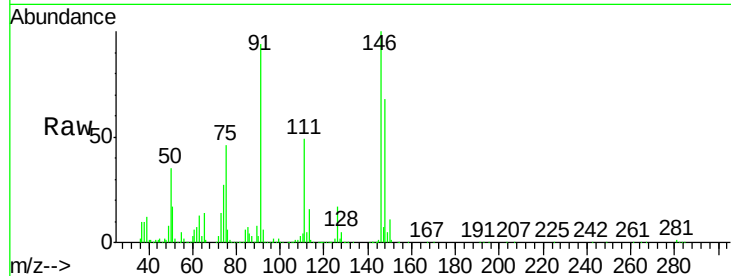




#75
 1,3-Dichlorobenzene
 Concen: 6.412 ppbv
 RT: 17.11 min Scan# 4408
 Delta R.T. 0.00 min
 Lab File: VL034093.D
 Acq: 5 Aug 2019 18:07

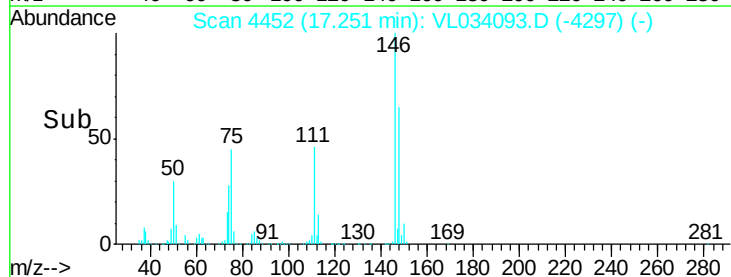
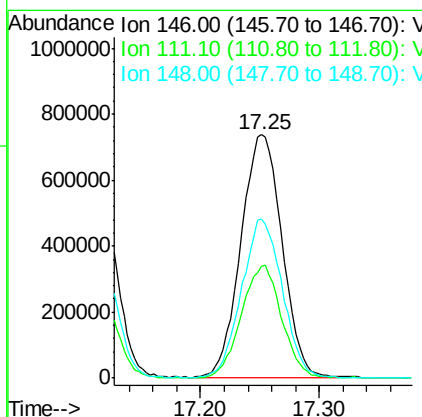
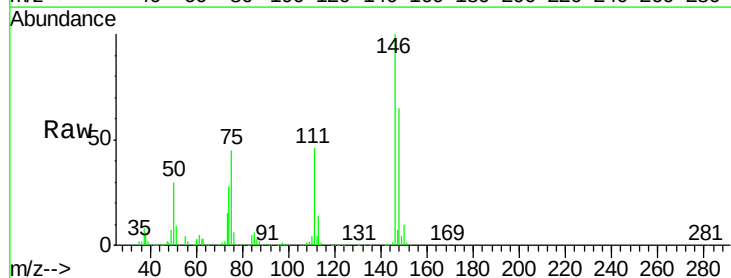
Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL080519

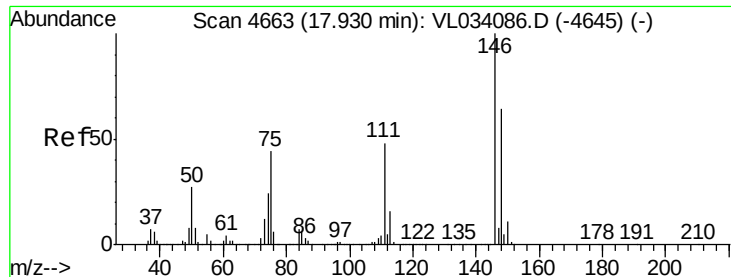
Tot Ion:146 Resp: 1708881
 Ion Ratio Lower Upper
 146 100
 111 47.8 23.8 71.5
 148 65.4 32.4 97.2



#76
 1,4-Dichlorobenzene
 Concen: 6.477 ppbv
 RT: 17.25 min Scan# 4452
 Delta R.T. -0.00 min
 Lab File: VL034093.D
 Acq: 5 Aug 2019 18:07

Tgt Ion:146 Resp: 1763804
 Ion Ratio Lower Upper
 146 100
 111 45.7 23.2 69.5
 148 65.1 32.1 96.5





#77

1,2-Dichlorobenzene

Concen: 6.541 ppbv

RT: 17.93 min Scan# 4664

Delta R.T. 0.00 min

Lab File: VL034093.D

Acq: 5 Aug 2019 18:07

Instrument :

MSVOA_L

ClientSampleId :

ICVVL080519

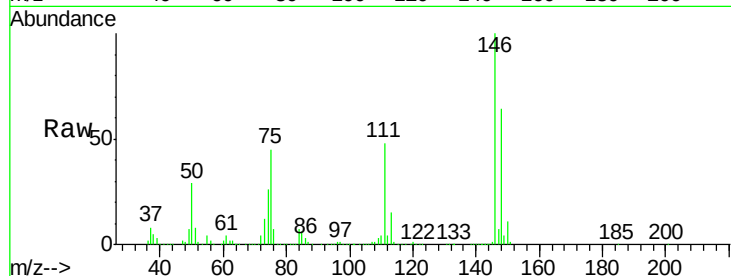
Tot Ion:146 Resp: 1718676

Ion Ratio Lower Upper

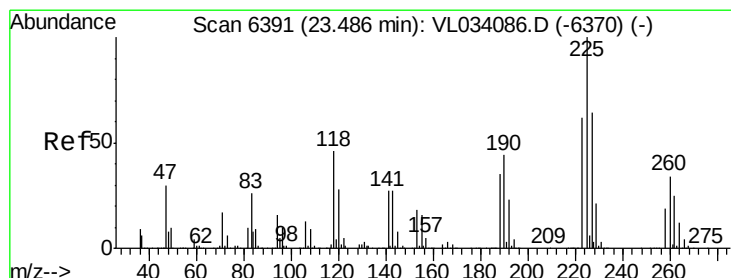
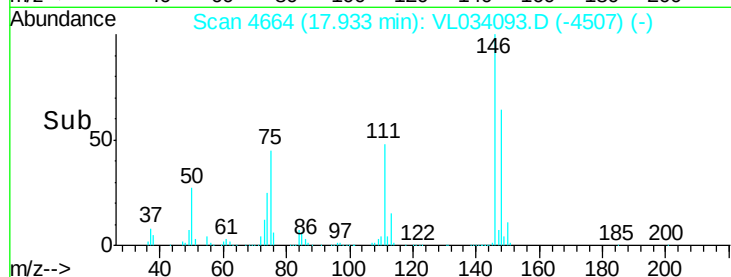
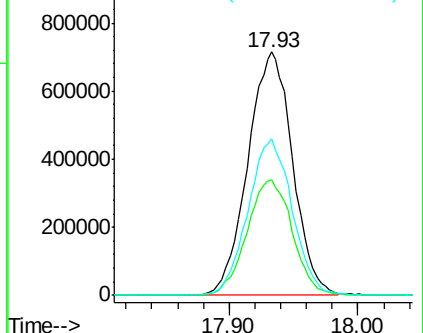
146 100

111 48.4 24.0 72.0

148 63.9 31.9 95.7



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: 7.026 ppbv

RT: 23.49 min Scan# 6392

Delta R.T. 0.00 min

Lab File: VL034093.D

Acq: 5 Aug 2019 18:07

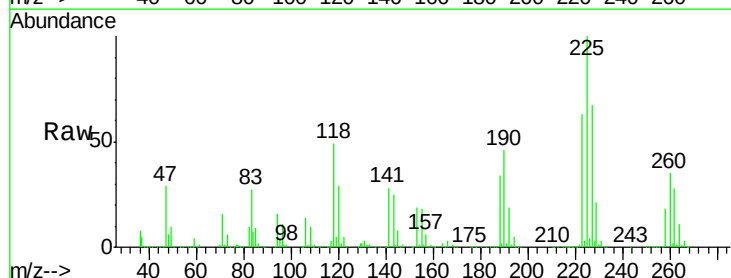
Tgt Ion:225 Resp: 1463497

Ion Ratio Lower Upper

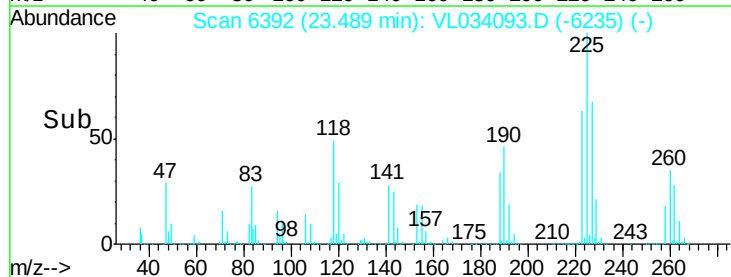
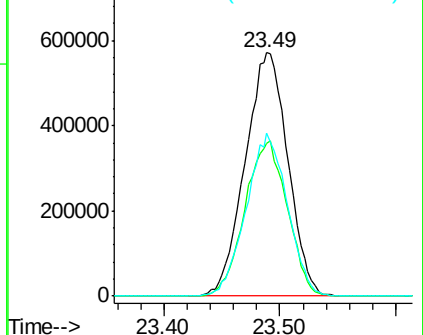
225 100

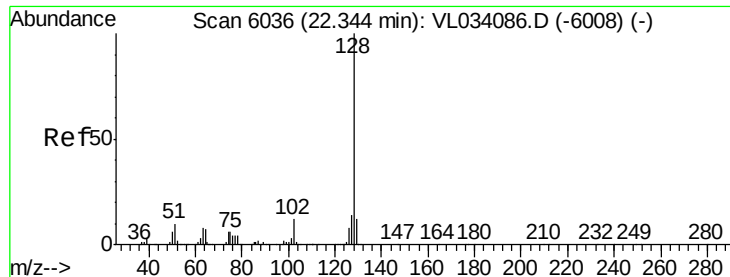
223 63.2 50.8 76.2

227 64.3 52.2 78.2



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: 6.056 ppbv

RT: 22.34 min Scan# 6036

Delta R.T. 0.00 min

Lab File: VL034093.D

Acq: 5 Aug 2019 18:07

Instrument :

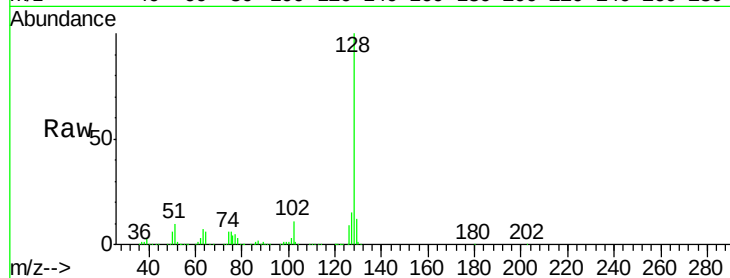
MSVOA_L

ClientSampleId :

ICVVL080519

Tot Ion:128 Resp: 2992751

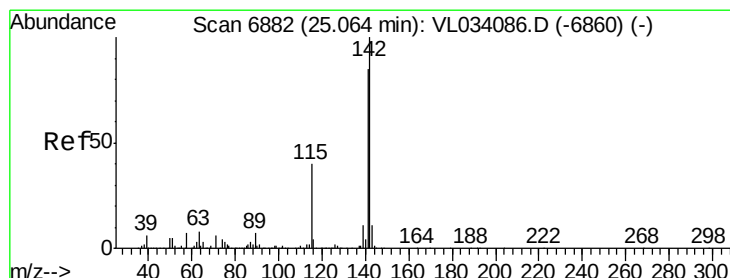
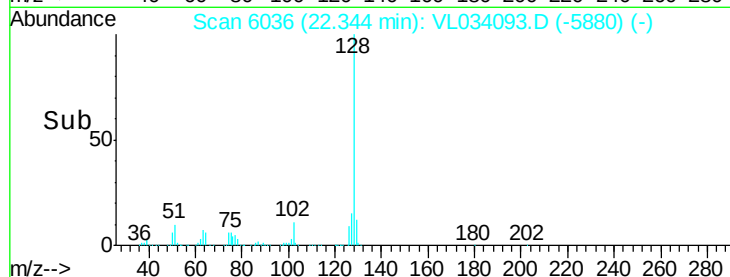
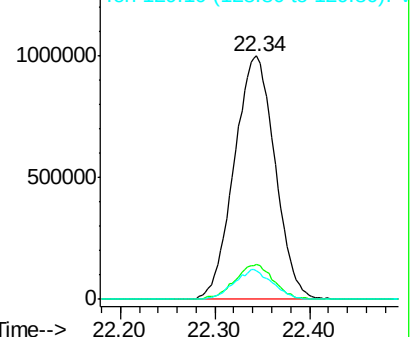
Ion	Ratio	Lower	Upper
128	100		
127	14.6	11.0	16.6
129	11.7	9.2	13.8



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: 8.654 ppbv

RT: 25.06 min Scan# 6882

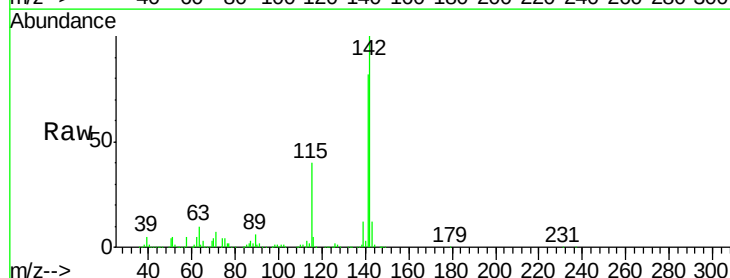
Delta R.T. 0.00 min

Lab File: VL034093.D

Acq: 5 Aug 2019 18:07

Tgt Ion:142 Resp: 1341224

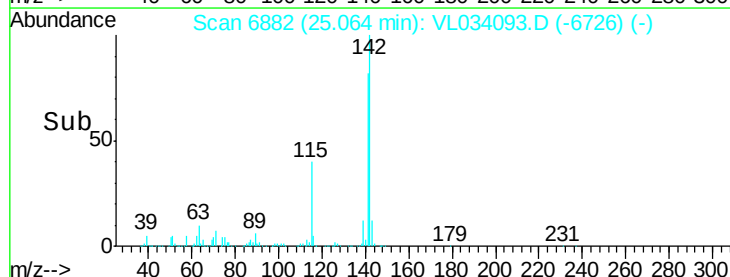
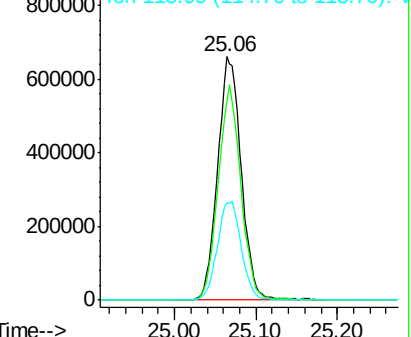
Ion	Ratio	Lower	Upper
142	100		
141	84.7	66.1	99.1
115	41.4	30.8	46.2

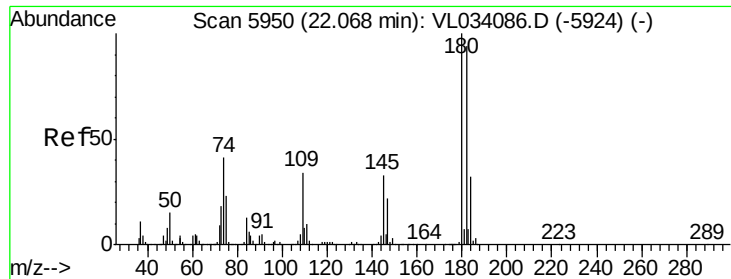


Abundance Ion 142.00 (141.70 to 142.70): V

Ion 141.00 (140.70 to 141.70): V

Ion 115.00 (114.70 to 115.70): V





#81

1,2,4-Trichlorobenzene

Concen: 6.208 ppbv

RT: 22.07 min Scan# 5950

Delta R.T. 0.00 min

Lab File: VL034093.D

Acq: 5 Aug 2019 18:07

Instrument :

MSVOA_L

ClientSampleId :

ICVVL080519

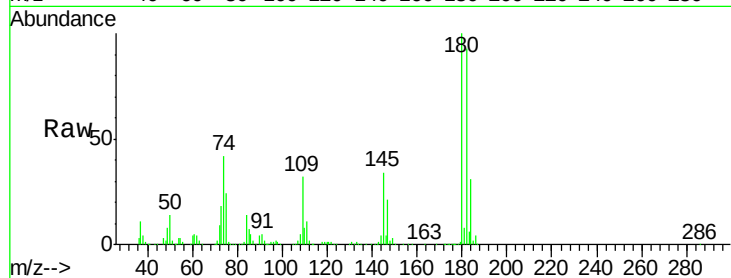
Tot Ion:180 Resp: 1702984

Ion Ratio Lower Upper

180 100

182 95.7 76.7 115.1

184 31.1 25.0 37.4



Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 184.00 (183.70 to 184.70): V

