

Data File : VV014520.D
Acq On : 06 Feb 2020 15:38
Operator : SY/MD
Sample : MDL02
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 13 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
MDL02

Quant Time: Feb 07 01:40:55 2020
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SFAMVLM020620W.M
Quant Title : VOC Analysis
QLast Update : Fri Feb 07 01:37:17 2020
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.66	114	407391	50.00	ug/L	0.00
28) Chlorobenzene-d5	8.89	117	376125	50.00	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.29	152	192971	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.32	65	104124	47.13	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	94.26%
7) Chloroethane-d5	1.58	69	74983	49.25	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	98.50%
11) 1,1-Dichloroethene-d2	2.13	63	124895	37.23	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	74.46%
21) 2-Butanone-d5	3.92	46	163039	95.60	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	95.60%
24) Chloroform-d	4.40	84	238266	47.33	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	94.66%
26) 1,2-Dichloroethane-d4	5.08	65	150595	49.01	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	98.02%
32) Benzene-d6	5.09	84	514094	49.36	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	98.72%
36) 1,2-Dichloropropane-d6	6.11	67	161922	50.70	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	101.40%
41) Toluene-d8	7.35	98	477530	49.79	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	99.58%
43) trans-1,3-Dichloropropene-	7.66	79	84060	49.09	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	98.18%
47) 2-Hexanone-d5	8.13	63	124754	91.82	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	91.82%
56) 1,1,2,2-Tetrachloroethane-	10.25	84	200913	48.44	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	96.88%
66) 1,2-Dichlorobenzene-d4	11.67	152	182118	49.21	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	98.42%

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	1.14	85	8939	2.739 ug/L	99
3) Chloromethane	1.26	50	9017	2.729 ug/L	98
5) Vinyl chloride	1.33	62	6818	2.694 ug/L #	69
6) Bromomethane	1.54	94	2917	2.506 ug/L	97
8) Chloroethane	1.60	64	3403	2.706 ug/L	99
9) Trichlorofluoromethane	1.77	101	9193	2.696 ug/L	96
10) 1,1,2-Trichloro-1,2,2-trif	2.14	101	5191	3.171 ug/L	92
12) 1,1-Dichloroethene	2.14	96	4947	3.159 ug/L #	1
13) Acetone	2.18	43	8120	5.687 ug/L	99
14) Carbon disulfide	2.32	76	20984	2.760 ug/L	99
15) Methyl Acetate	2.46	43	7309	2.662 ug/L	97
16) Methylene chloride	2.54	84	8350	2.808 ug/L	93
17) trans-1,2-Dichloroethene	2.79	96	7866	2.851 ug/L	96
18) Methyl tert-butyl Ether	2.80	73	22477	2.573 ug/L	95
19) 1,1-Dichloroethane	3.23	63	13063	2.648 ug/L	98
20) cis-1,2-Dichloroethene	3.96	96	7998	2.576 ug/L	99
23) Bromochloromethane	4.30	128	3557	2.420 ug/L #	92

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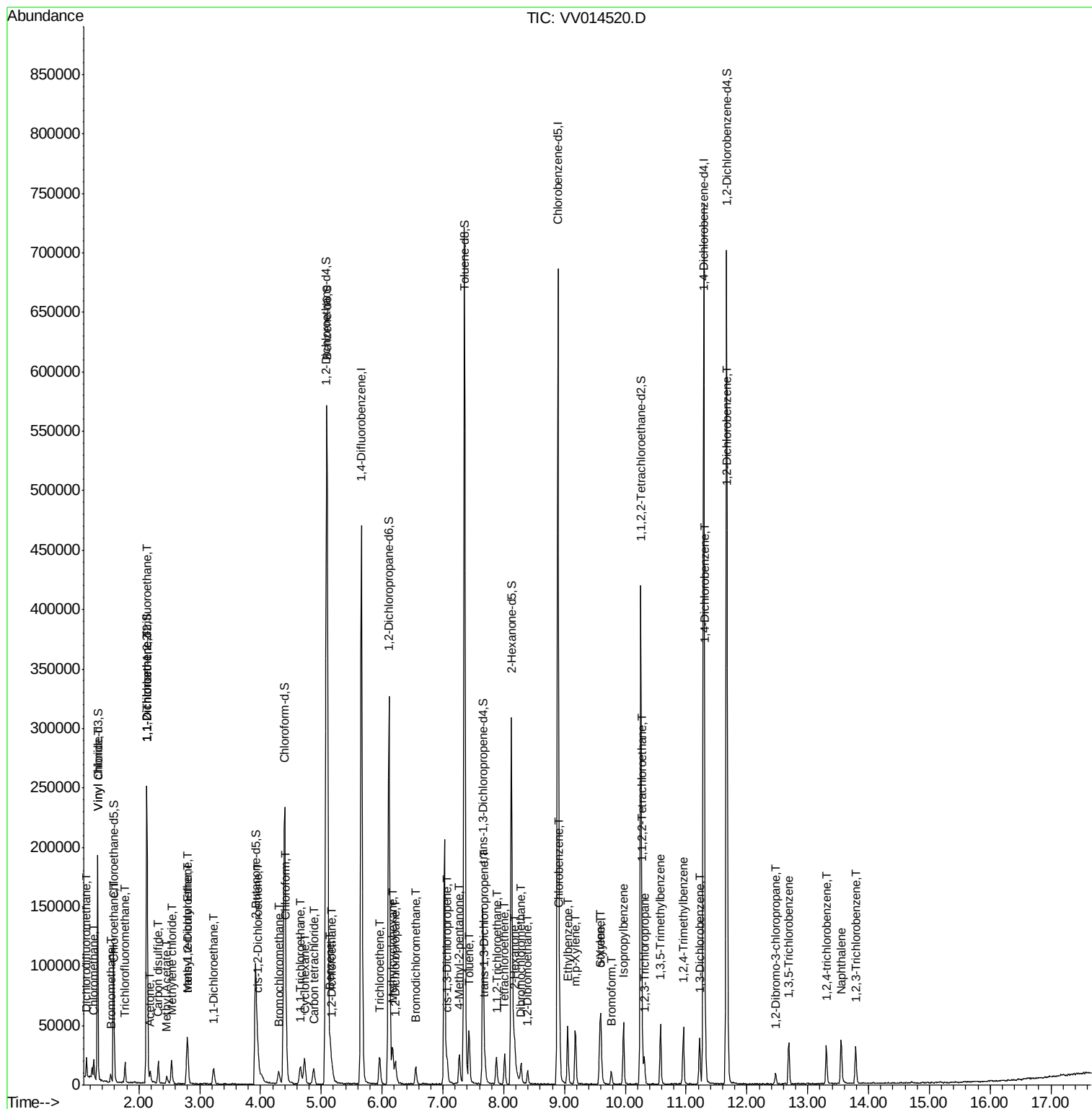
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
25) Chloroform	4.43	83	17689	3.527	ug/L	97
27) 1,2-Dichloroethane	5.18	62	10277	2.750	ug/L	99
29) Cyclohexane	4.73	56	11929	2.579	ug/L	96
30) 1,1,1-Trichloroethane	4.66	97	11100	2.586	ug/L #	66
31) Carbon tetrachloride	4.87	117	9870	2.606	ug/L	98
33) Benzene	5.15	78	29587	2.676	ug/L	100
34) Trichloroethene	5.96	95	7811	2.665	ug/L	96
35) Methylcyclohexane	6.17	83	12299	2.568	ug/L	98
37) 1,2-Dichloropropane	6.22	63	7888	2.801	ug/L	98
38) Bromodichloromethane	6.55	83	9874	2.612	ug/L	96
39) cis-1,3-Dichloropropene	7.07	75	11585	2.466	ug/L	97
40) 4-Methyl-2-pentanone	7.27	43	17117	4.703	ug/L	97
42) Toluene	7.43	91	32482	2.740	ug/L	97
44) trans-1,3-Dichloropropene	7.69	75	14407	3.420	ug/L	98
45) 1,1,2-Trichloroethane	7.88	97	7293	2.699	ug/L	93
46) Tetrachloroethene	8.02	164	5947	2.660	ug/L	96
48) 2-Hexanone	8.18	43	14254	5.087	ug/L	94
49) Dibromochloromethane	8.28	129	7814	2.561	ug/L	97
50) 1,2-Dibromoethane	8.39	107	7190	2.457	ug/L #	99
51) Chlorobenzene	8.92	112	20731	2.677	ug/L	97
52) Ethylbenzene	9.05	91	34048	2.561	ug/L	97
53) m,p-Xylene	9.18	106	12538	2.448	ug/L	95
54) o-Xylene	9.58	106	12535	2.557	ug/L	95
55) Styrene	9.60	104	21415	2.556	ug/L	94
57) 1,1,2,2-Tetrachloroethane	10.28	83	12286	2.901	ug/L	97
59) Bromoform	9.77	173	5326	2.475	ug/L #	91
60) Isopropylbenzene	9.97	105	32467	2.488	ug/L	99
61) 1,2,3-Trichloropropane	10.32	75	8848	2.589	ug/L	98
62) 1,3,5-Trimethylbenzene	10.58	105	27278	2.442	ug/L	97
63) 1,2,4-Trimethylbenzene	10.95	105	26340	2.392	ug/L	98
64) 1,3-Dichlorobenzene	11.22	146	15335	2.491	ug/L	98
65) 1,4-Dichlorobenzene	11.31	146	16569	2.615	ug/L	99
67) 1,2-Dichlorobenzene	11.68	146	16336	2.737	ug/L	96
68) 1,2-Dibromo-3-chloropropan	12.47	75	2478	2.589	ug/L	98
69) 1,3,5-Trichlorobenzene	12.69	180	11054	2.549	ug/L	96
70) 1,2,4-trichlorobenzene	13.31	180	9829	2.469	ug/L	98
71) Naphthalene	13.55	128	33177	2.537	ug/L	99
72) 1,2,3-Trichlorobenzene	13.79	180	9539	2.466	ug/L	96

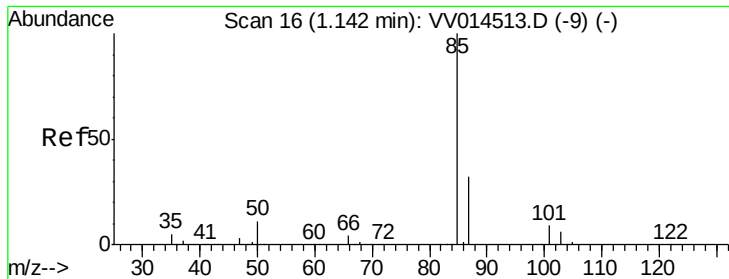
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#2

Dichlorodifluoromethane

Concen: 2.739 ug/L

RT: 1.14 min Scan# 15

Delta R.T. -0.00 min

Lab File: VV014520.D

Acq: 06 Feb 2020 15:38

Instrument :

MSVOA_V

ClientSampled :

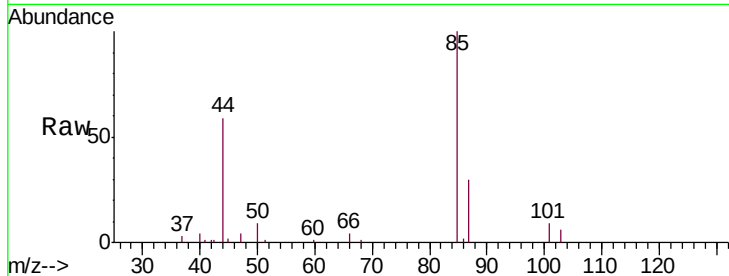
MDL02

Tgt Ion: 85 Resp: 8939

Ion Ratio Lower Upper

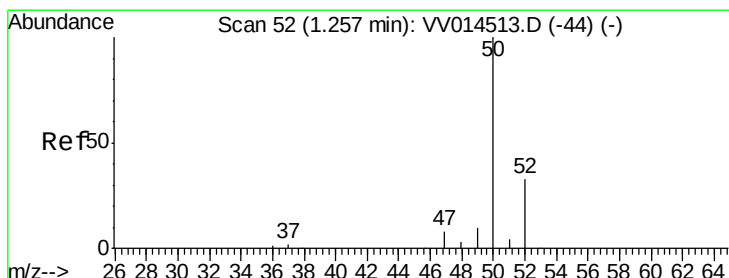
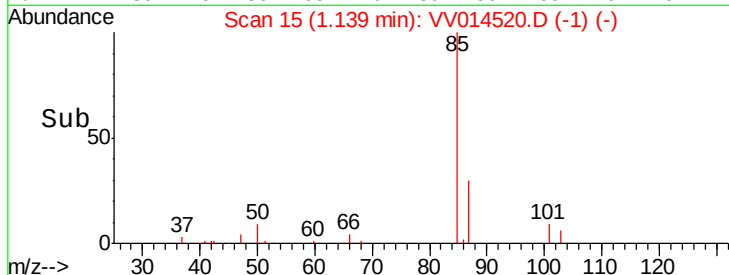
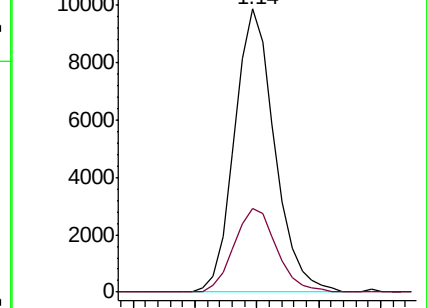
85 100

87 31.4 25.7 38.5



Abundance Ion 85.00 (84.70 to 85.70): VV0

Ion 87.00 (86.70 to 87.70): VV0



#3

Chloromethane

Concen: 2.729 ug/L

RT: 1.26 min Scan# 52

Delta R.T. 0.00 min

Lab File: VV014520.D

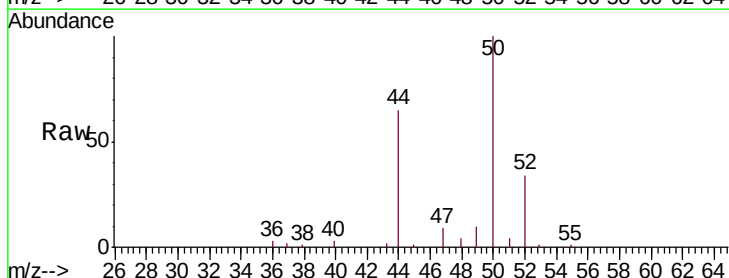
Acq: 06 Feb 2020 15:38

Tgt Ion: 50 Resp: 9017

Ion Ratio Lower Upper

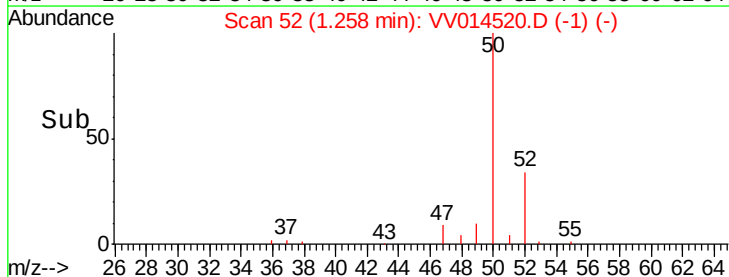
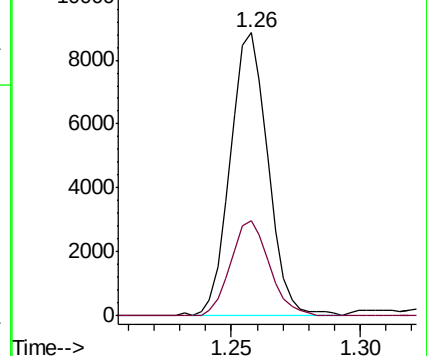
50 100

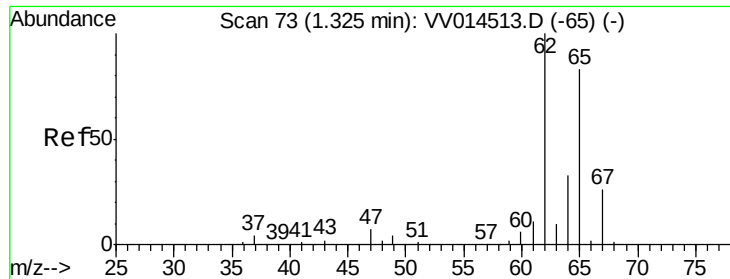
52 33.8 22.9 42.5



Abundance Ion 50.00 (49.70 to 50.70): VV0

Ion 52.00 (51.70 to 52.70): VV0





#5

Vinyl chloride

Concen: 2.694 ug/L

RT: 1.33 min Scan# 73

Delta R.T. 0.00 min

Lab File: VV014520.D

Acq: 06 Feb 2020 15:38

Instrument :

MSVOA_V

ClientSampleId :

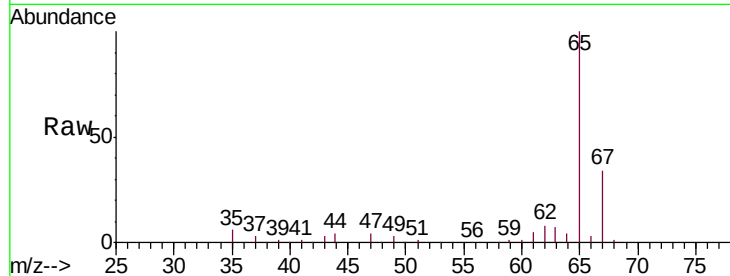
MDL02

Tgt Ion: 62 Resp: 6818

Ion Ratio Lower Upper

62 100

64 50.3 23.1 42.9#



Abundance Ion 62.00 (61.70 to 62.70): VV0

Ion 64.00 (63.70 to 64.70): VV0

8000

6000

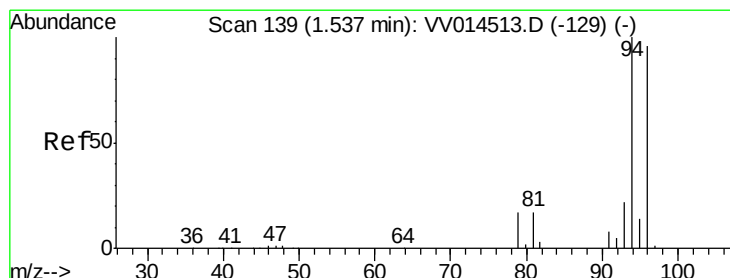
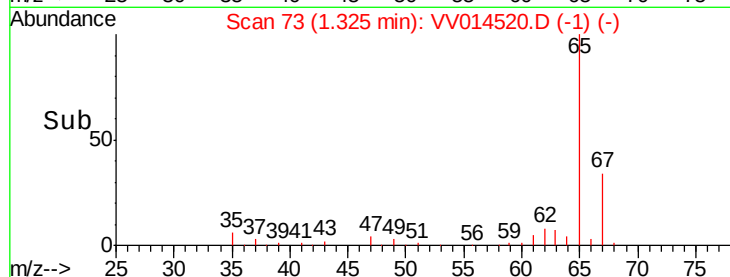
4000

2000

0

1.30 1.32 1.34 1.36

Time-->



#6

Bromomethane

Concen: 2.506 ug/L

RT: 1.54 min Scan# 139

Delta R.T. 0.00 min

Lab File: VV014520.D

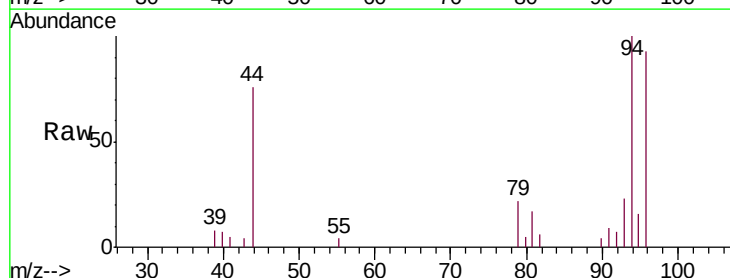
Acq: 06 Feb 2020 15:38

Tgt Ion: 94 Resp: 2917

Ion Ratio Lower Upper

94 100

96 92.8 67.3 124.9



Abundance Ion 94.00 (93.70 to 94.70): VV0

Ion 96.00 (95.70 to 96.70): VV0

2500

2000

1500

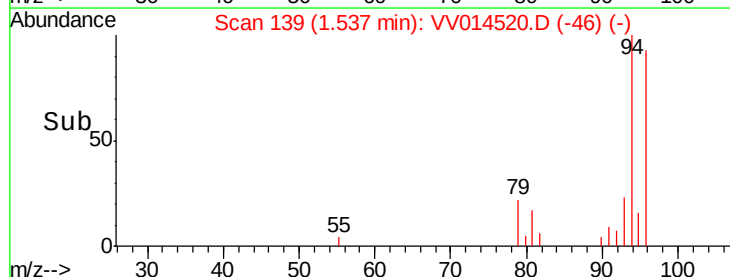
1000

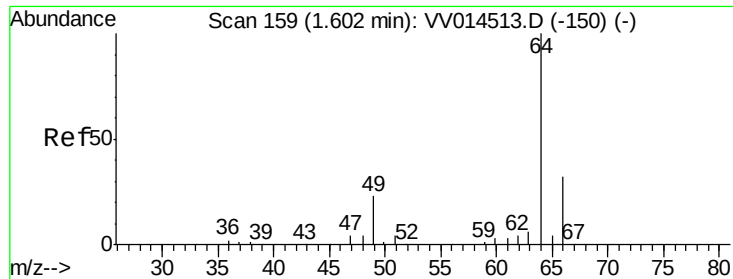
500

0

1.50 1.52 1.54 1.56

Time-->





#8

Chloroethane

Concen: 2.706 ug/L

RT: 1.60 min Scan# 159

Delta R.T. 0.00 min

Lab File: VV014520.D

Acq: 06 Feb 2020 15:38

Instrument :

MSVOA_V

ClientSampleId :

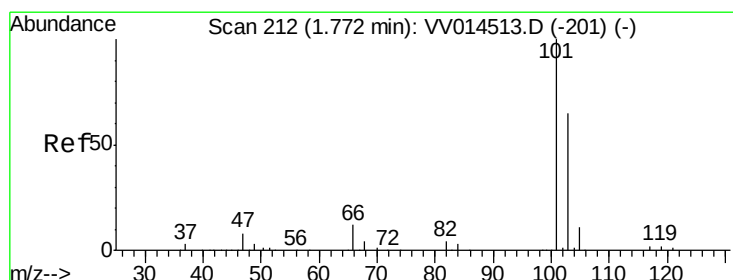
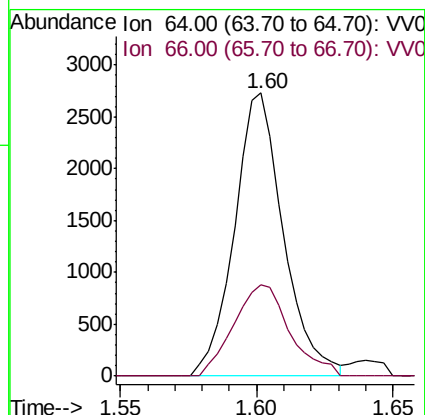
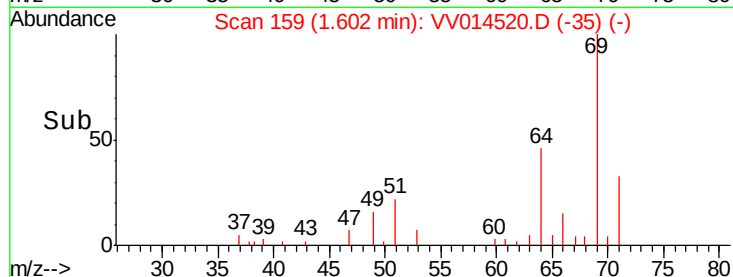
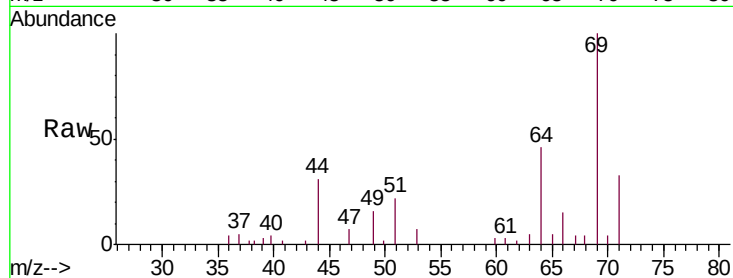
MDL02

Tgt Ion: 64 Resp: 3403

Ion Ratio Lower Upper

64 100

66 32.5 22.4 41.6



#9

Trichlorofluoromethane

Concen: 2.696 ug/L

RT: 1.77 min Scan# 212

Delta R.T. 0.00 min

Lab File: VV014520.D

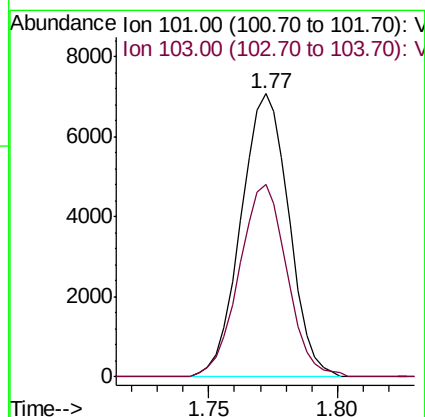
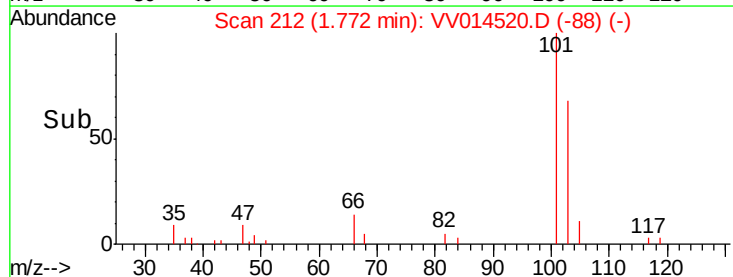
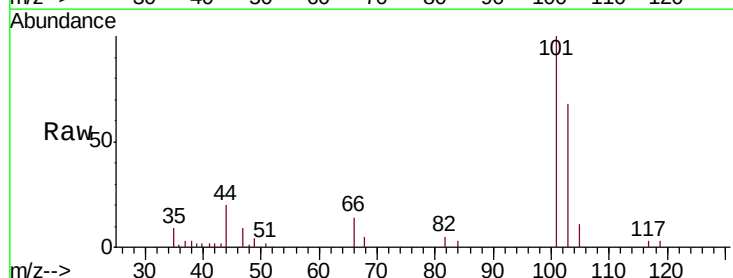
Acq: 06 Feb 2020 15:38

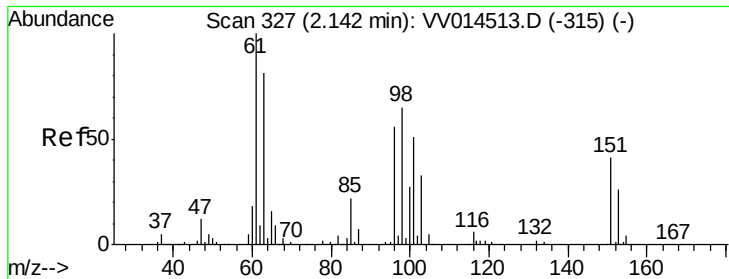
Tgt Ion: 101 Resp: 9193

Ion Ratio Lower Upper

101 100

103 68.0 51.8 77.8





#10

1,1,2-Trichloro-1,2,2-trifluoroethane

Concen: 3.171 ug/L

RT: 2.14 min Scan# 326

Delta R.T. -0.00 min

Lab File: VV014520.D

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Instrument :

MSVOA_V

ClientSampleId :

MDL02

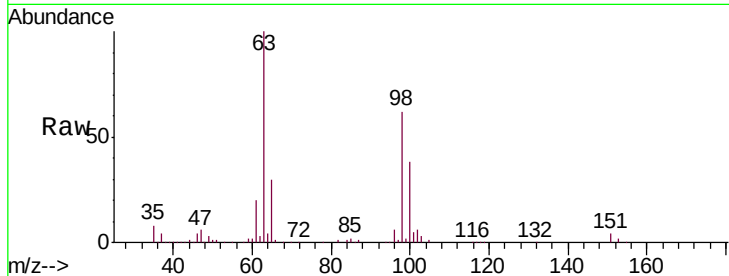
Tgt Ion: 101 Resp: 5191

Ion Ratio Lower Upper

101 100

85 39.6 35.0 52.6

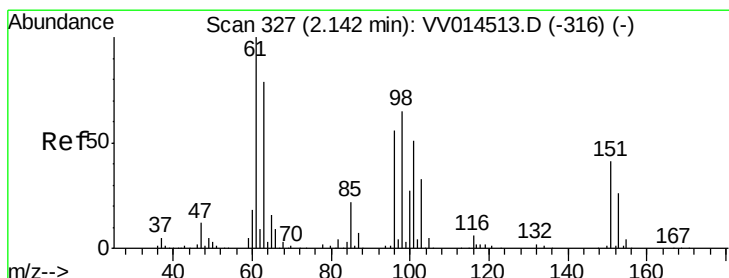
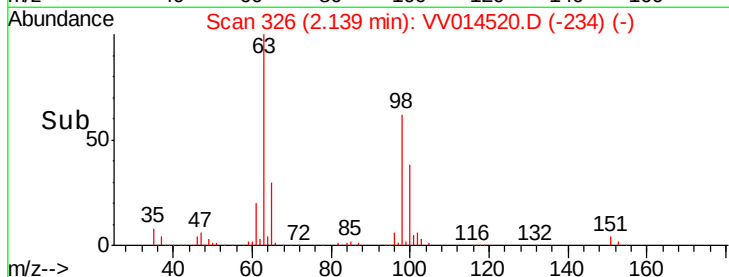
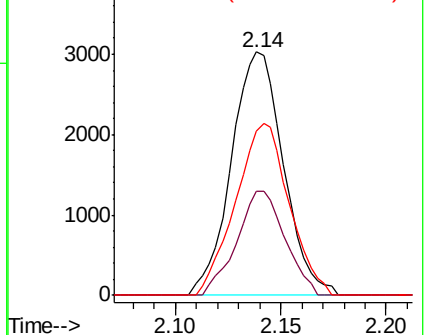
151 72.5 64.4 96.6



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VV0

Ion 151.00 (150.70 to 151.70): V



#12

1,1-Dichloroethene

Concen: 3.159 ug/L

RT: 2.14 min Scan# 326

Delta R.T. -0.00 min

Lab File: VV014520.D

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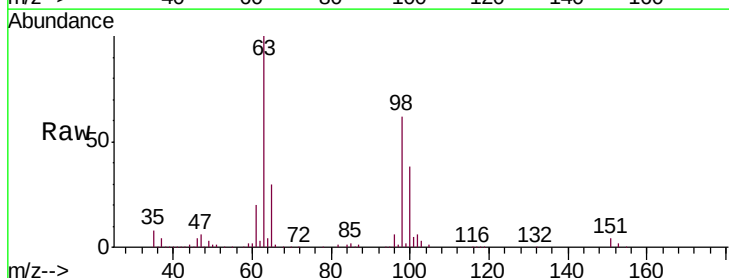
Tgt Ion: 96 Resp: 4947

Ion Ratio Lower Upper

96 100

61 344.9 125.0 232.2#

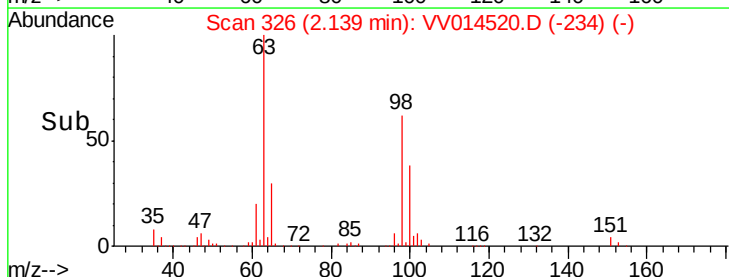
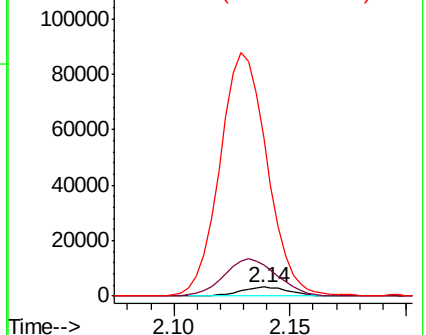
63 1764.3 101.6 188.6#

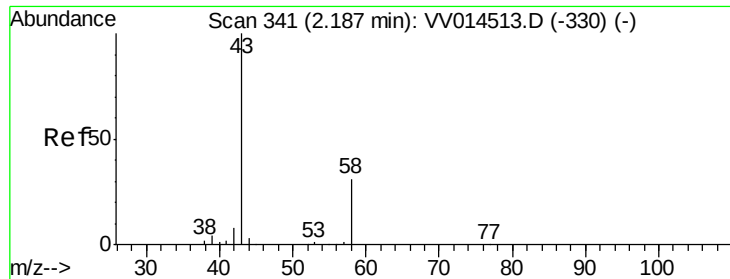


Abundance Ion 96.00 (95.70 to 96.70): VV0

Ion 61.00 (60.70 to 61.70): VV0

Ion 63.00 (62.70 to 63.70): VV0





#13

Acetone

Concen: 5.687 ug/L

RT: 2.18 min Scan# 340

Delta R.T. -0.00 min

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ClientSampled :

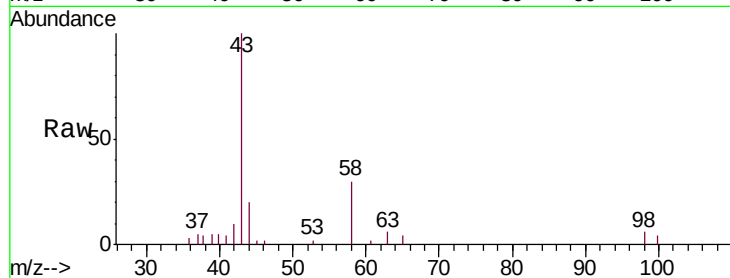
MDL02

Tgt Ion: 43 Resp: 8120

Ion Ratio Lower Upper

43 100

58 31.5 0.0 61.8



Abundance Ion 43.00 (42.70 to 43.70): VV014513.D (-330) (-)

Ion 58.00 (57.70 to 58.70): VV014513.D (-330) (-)

2.18

6000

5000

4000

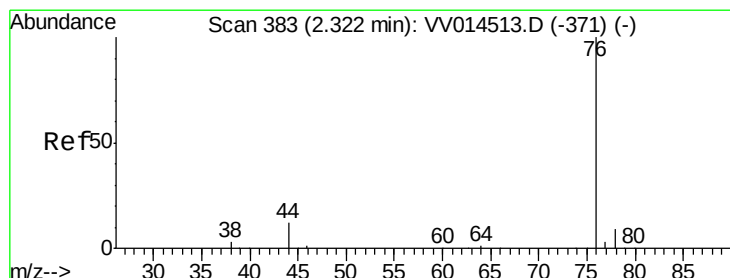
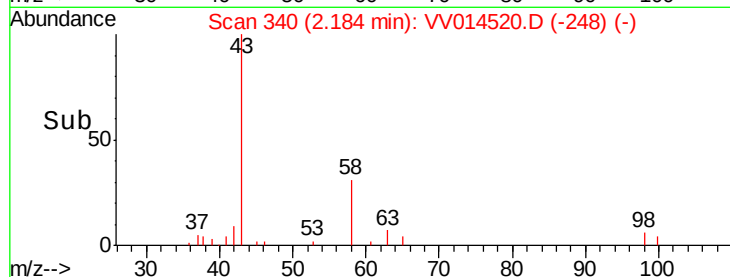
3000

2000

1000

0

Time-->



#14

Carbon disulfide

Concen: 2.760 ug/L

RT: 2.32 min Scan# 382

Delta R.T. -0.00 min

Lab File: VV014520.D

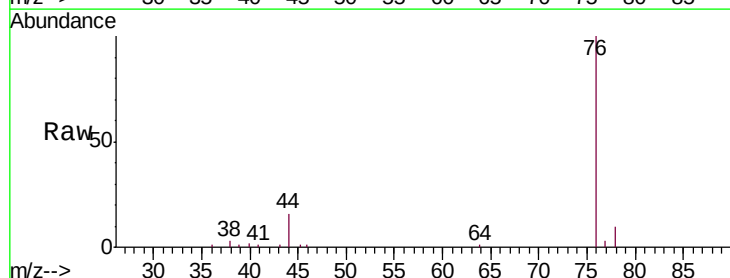
Acq: 06 Feb 2020 15:38

Tgt Ion: 76 Resp: 20984

Ion Ratio Lower Upper

76 100

78 9.7 7.4 11.2



Abundance Ion 76.00 (75.70 to 76.70): VV014513.D (-371) (-)

Ion 78.00 (77.70 to 78.70): VV014513.D (-371) (-)

2.32

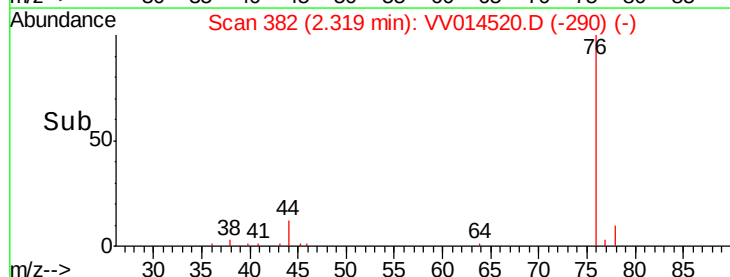
15000

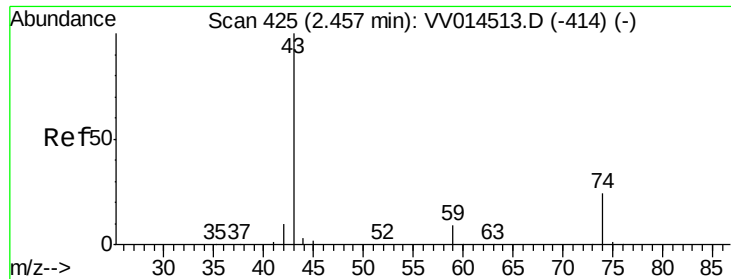
10000

5000

0

Time-->

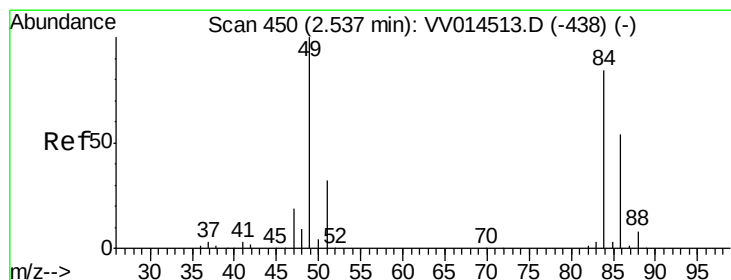
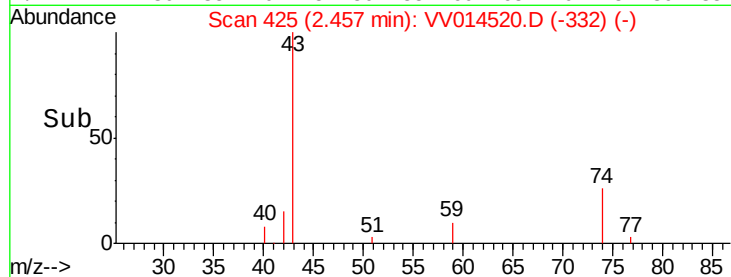
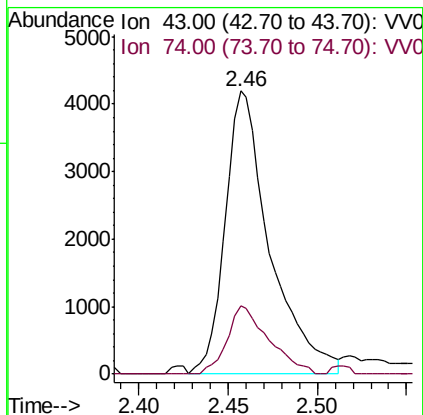
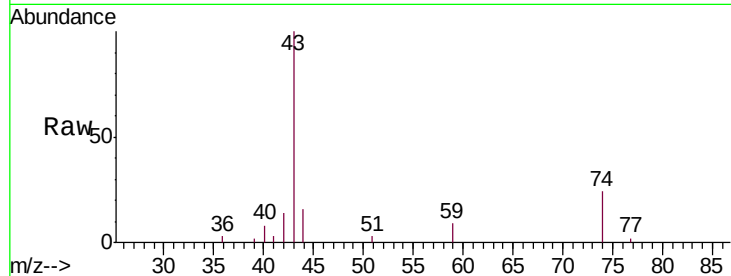




#15
Methyl Acetate
Concen: 2.662 ug/L
RT: 2.46 min Scan# 425
Delta R.T. 0.00 min
Lab File: VV014520.D
Acq: 06 Feb 2020 15:38

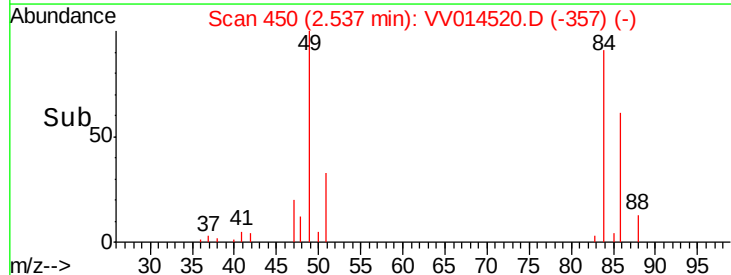
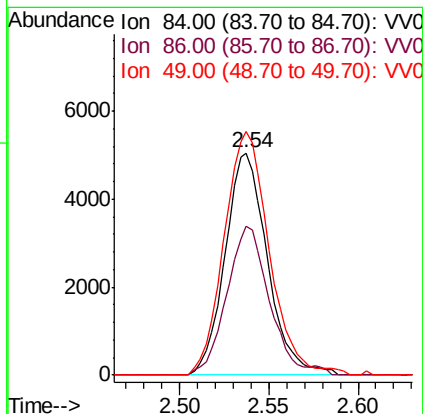
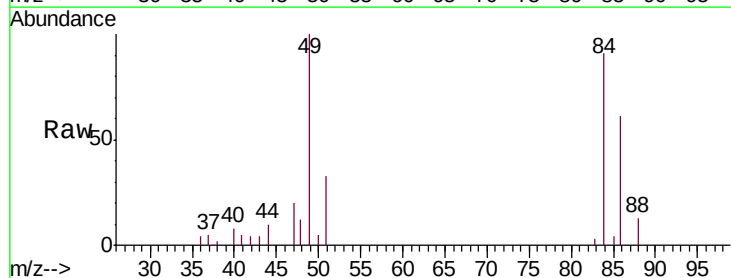
Instrument :
MSVOA_V
ClientSampleId :
MDL02

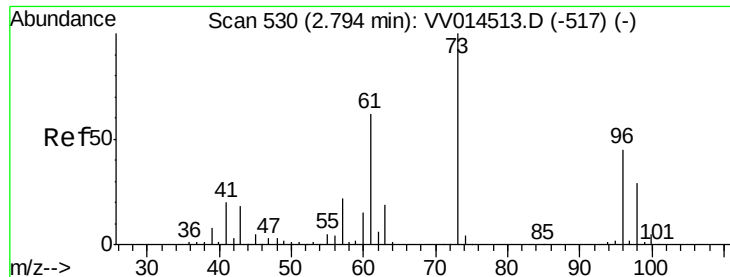
Tgt Ion: 43 Resp: 7309
Ion Ratio Lower Upper
43 100
74 22.5 19.4 29.0



#16
Methylene chloride
Concen: 2.808 ug/L
RT: 2.54 min Scan# 450
Delta R.T. 0.00 min
Lab File: VV014520.D
Acq: 06 Feb 2020 15:38

Tgt Ion: 84 Resp: 8350
Ion Ratio Lower Upper
84 100
86 67.2 44.6 82.8
49 109.7 83.2 154.4

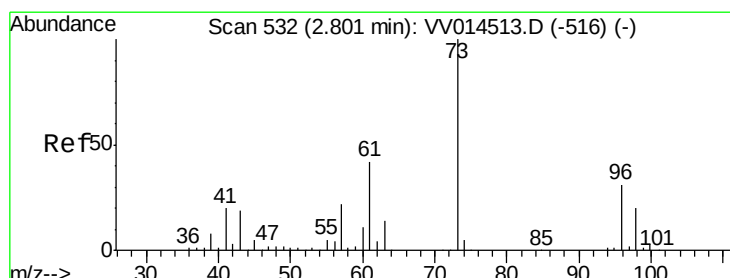
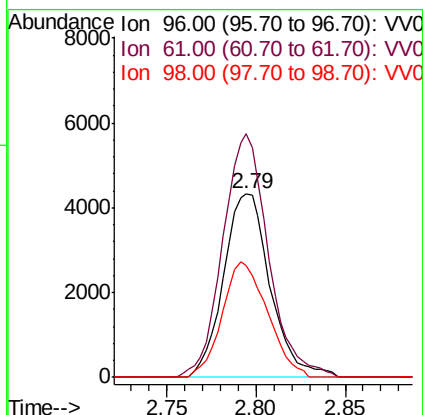
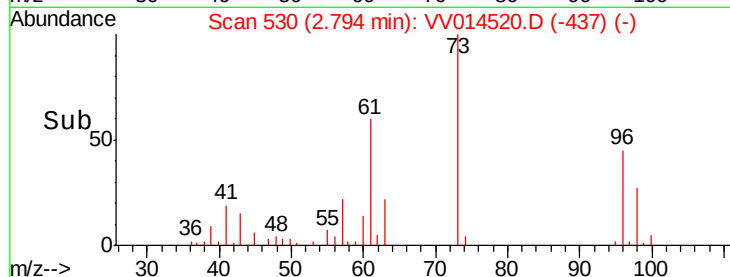
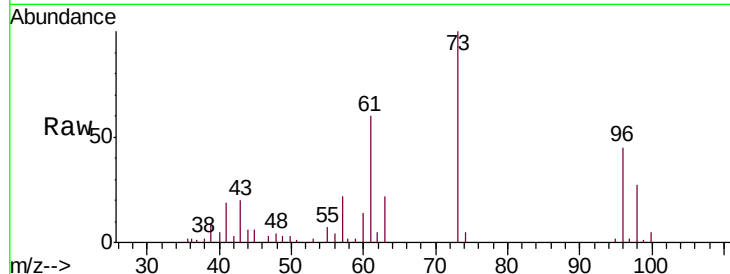




#17
trans-1,2-Dichloroethene
Concen: 2.851 ug/L
RT: 2.79 min Scan# 530
Delta R.T. 0.00 min
Lab File: VV014520.D
Acq: 06 Feb 2020 15:38

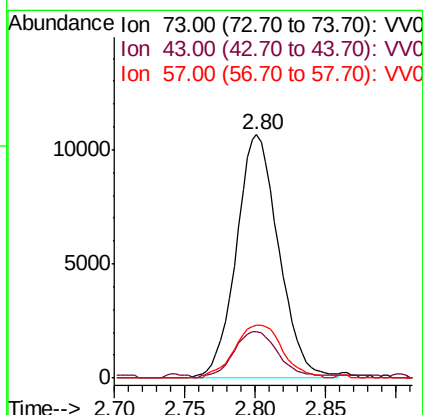
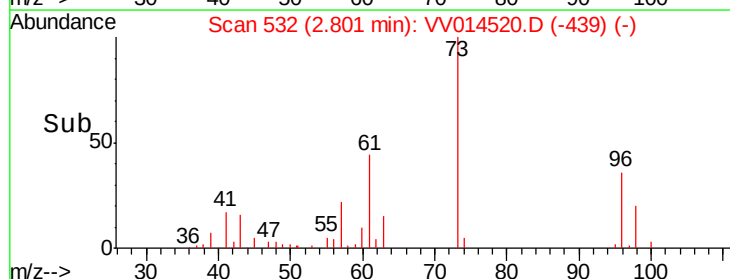
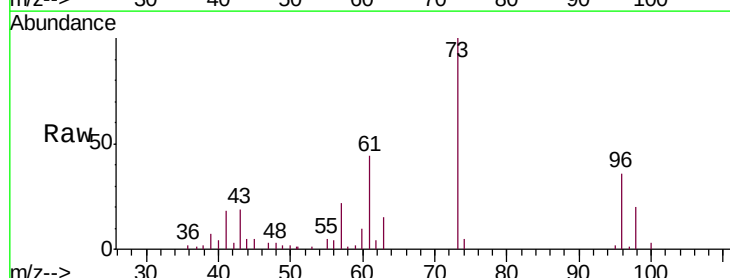
Instrument :
MSVOA_V
ClientSampled :
MDL02

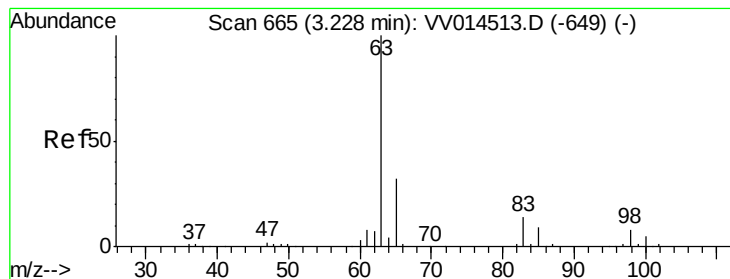
Tgt Ion: 96 Resp: 7866
Ion Ratio Lower Upper
96 100
61 132.3 95.8 178.0
98 60.4 45.1 83.7



#18
Methyl tert-butyl Ether
Concen: 2.573 ug/L
RT: 2.80 min Scan# 532
Delta R.T. 0.00 min
Lab File: VV014520.D
Acq: 06 Feb 2020 15:38

Tgt Ion: 73 Resp: 22477
Ion Ratio Lower Upper
73 100
43 20.7 14.9 22.3
57 24.6 17.5 26.3

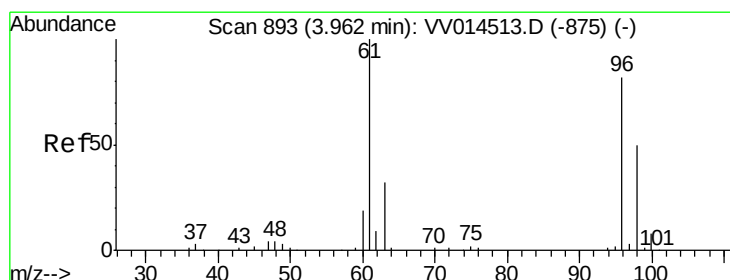
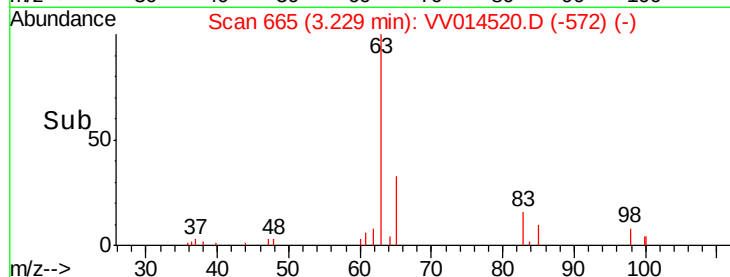
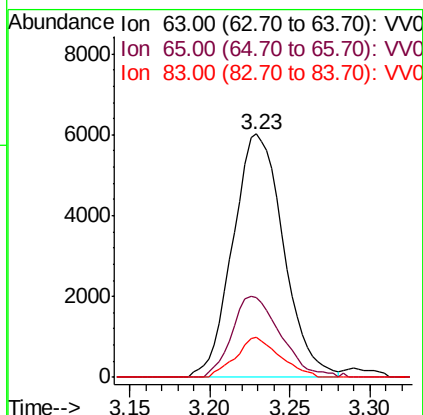
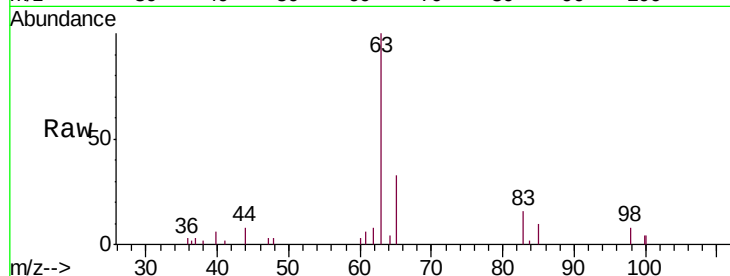




#19
 1,1-Dichloroethane
 Concen: 2.648 ug/L
 RT: 3.23 min Scan# 665
 Delta R.T. 0.00 min
 Lab File: VV014520.D
 Acq: 06 Feb 2020 15:38

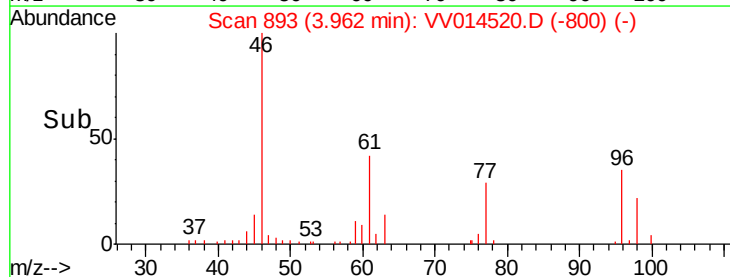
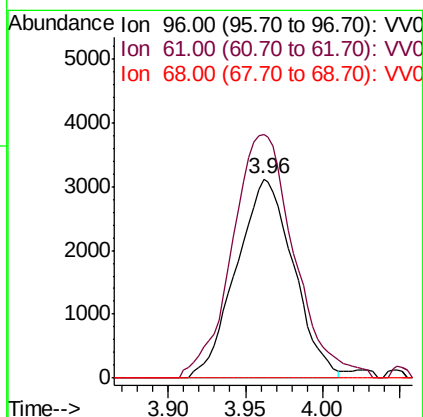
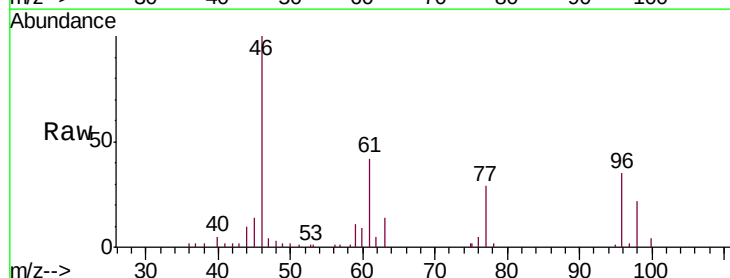
Instrument :
 MSVOA_V
 ClientSampleId :
 MDL02

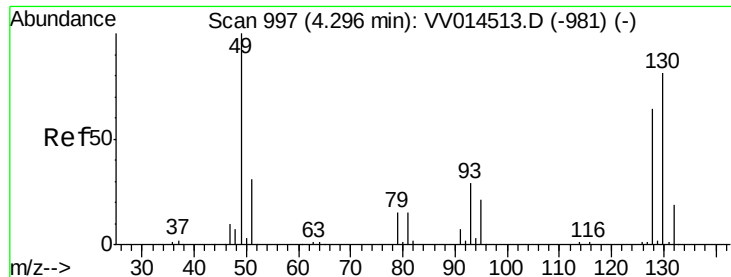
Tgt Ion: 63 Resp: 13063
 Ion Ratio Lower Upper
 63 100
 65 32.7 22.5 41.7
 83 16.2 9.7 18.1



#20
 cis-1,2-Dichloroethene
 Concen: 2.576 ug/L
 RT: 3.96 min Scan# 893
 Delta R.T. 0.00 min
 Lab File: VV014520.D
 Acq: 06 Feb 2020 15:38

Tgt Ion: 96 Resp: 7998
 Ion Ratio Lower Upper
 96 100
 61 122.3 85.2 158.2
 68 0.0 0.0 0.0





#23

Bromochloromethane

Concen: 2.420 ug/L

RT: 4.30 min Scan# 998

Delta R.T. 0.00 min

Lab File: VV014520.D

Acq: 06 Feb 2020 15:38

Instrument :

MSVOA_V

ClientSampleId :

MDL02

Tgt Ion:128 Resp: 3557

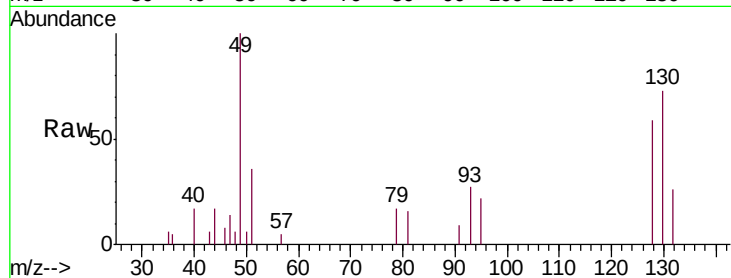
Ion Ratio Lower Upper

128 100

49 169.3 110.1 204.5

130 123.6 88.5 164.4

51 61.6 39.4 59.0#



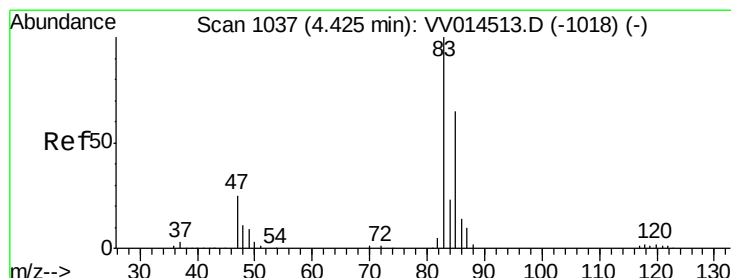
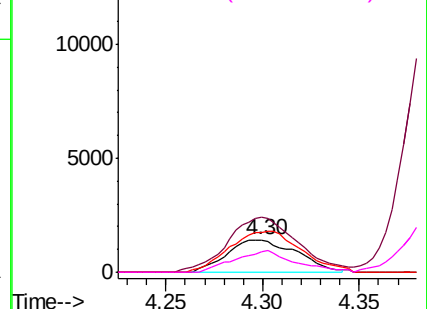
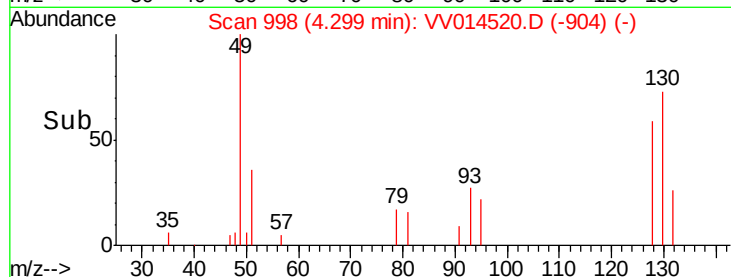
Abundance

Ion 128.00 (127.70 to 128.70): V

Ion 49.00 (48.70 to 49.70): VV0

Ion 130.00 (129.70 to 130.70): V

Ion 51.00 (50.70 to 51.70): VV0



#25

Chloroform

Concen: 3.527 ug/L

RT: 4.43 min Scan# 1038

Delta R.T. 0.00 min

Lab File: VV014520.D

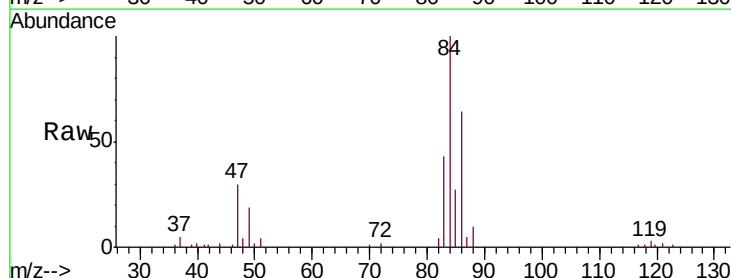
Acq: 06 Feb 2020 15:38

Tgt Ion: 83 Resp: 17689

Ion Ratio Lower Upper

83 100

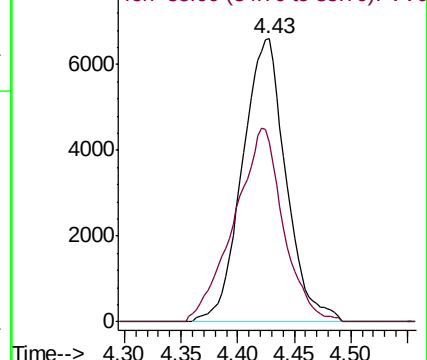
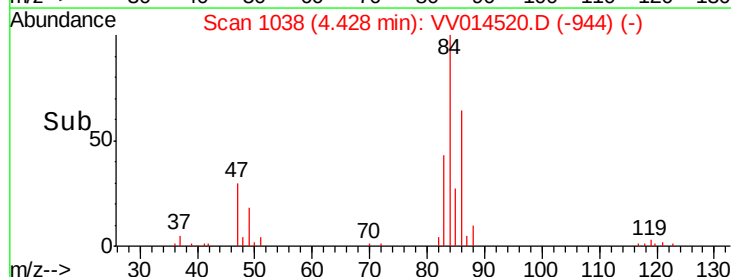
85 63.3 45.8 85.0

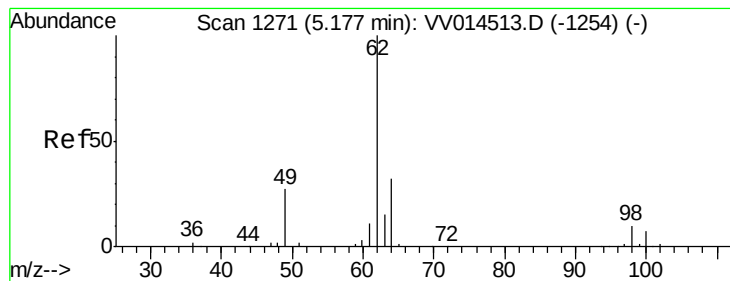


Abundance

Ion 83.00 (82.70 to 83.70): VV0

Ion 85.00 (84.70 to 85.70): VV0





#27

1,2-Dichloroethane

Concen: 2.750 ug/L

RT: 5.18 min Scan# 1273

Delta R.T. 0.01 min

Lab File: VV014520.D

Acq: 06 Feb 2020 15:38

Instrument :

MSVOA_V

ClientSampleId :

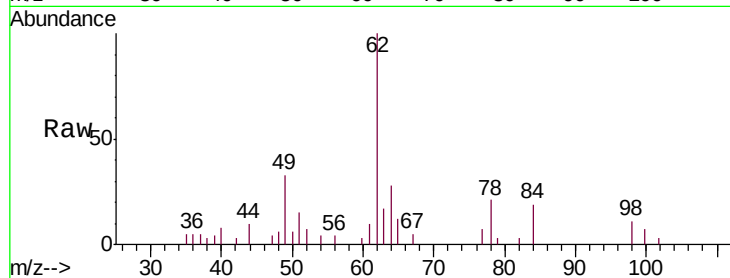
MDL02

Tgt Ion: 62 Resp: 10277

Ion Ratio Lower Upper

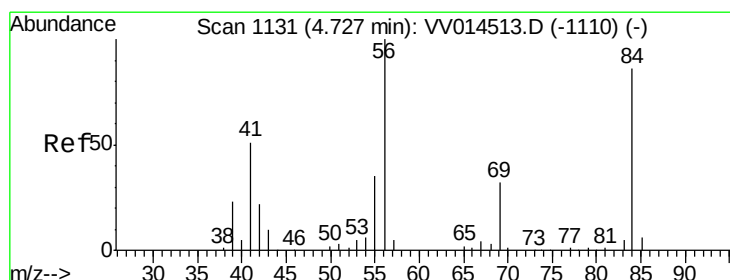
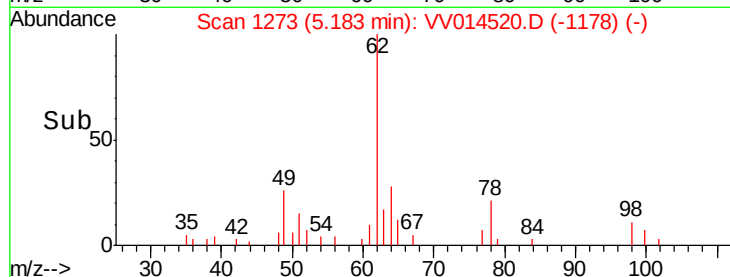
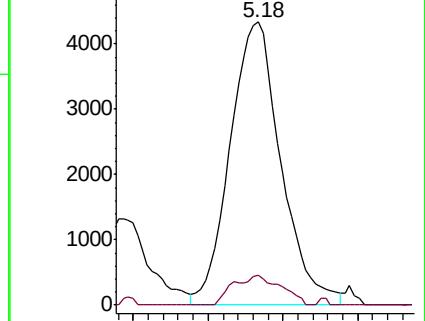
62 100

98 10.6 8.2 12.4



Abundance Ion 62.00 (61.70 to 62.70): VV0

Ion 98.00 (97.70 to 98.70): VV0



#29

Cyclohexane

Concen: 2.579 ug/L

RT: 4.73 min Scan# 1131

Delta R.T. 0.00 min

Lab File: VV014520.D

Acq: 06 Feb 2020 15:38

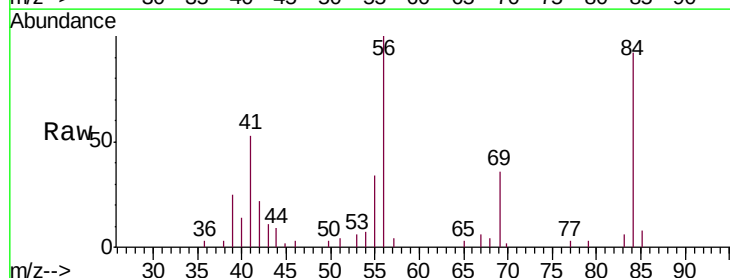
Tgt Ion: 56 Resp: 11929

Ion Ratio Lower Upper

56 100

69 33.2 25.2 37.8

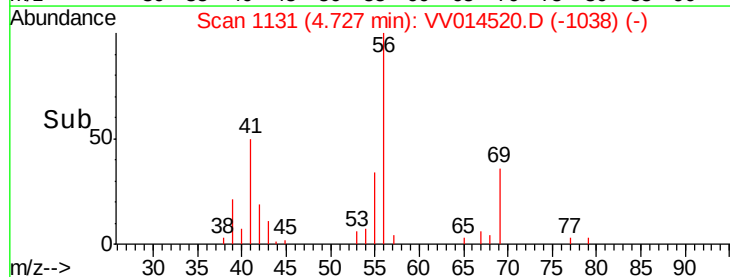
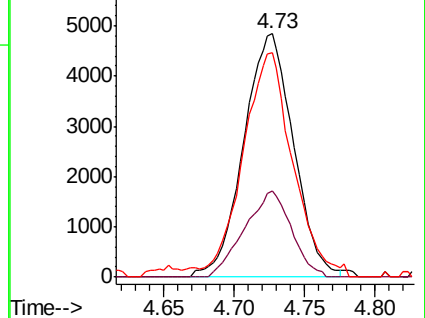
84 91.9 69.8 104.8

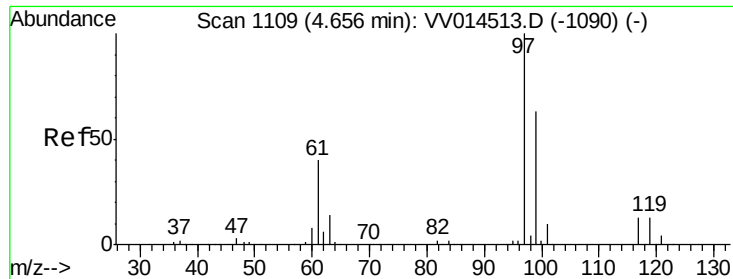


Abundance Ion 56.00 (55.70 to 56.70): VV0

Ion 69.00 (68.70 to 69.70): VV0

Ion 84.00 (83.70 to 84.70): VV0

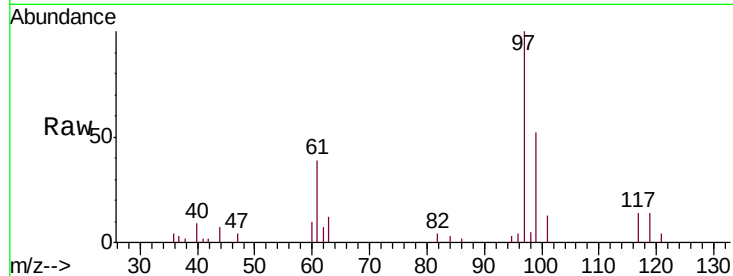




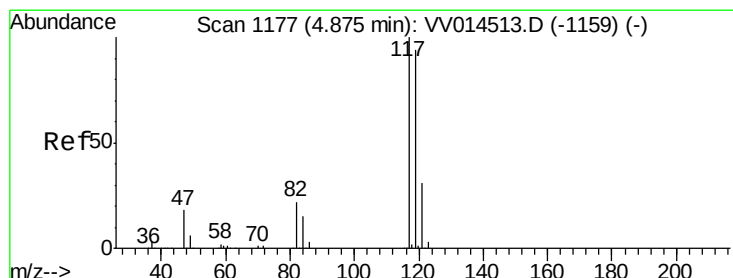
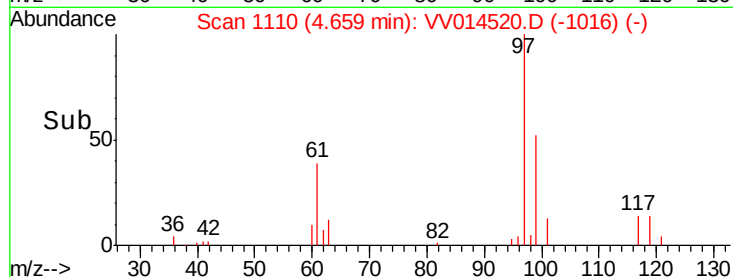
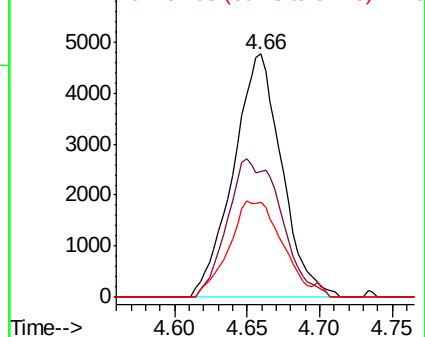
#30
 1,1,1-Trichloroethane
 Concen: 2.586 ug/L
 RT: 4.66 min Scan# 1110
 Delta R.T. 0.00 min
 Lab File: VV014520.D
 Acq: 06 Feb 2020 15:38

Instrument :
 MSVOA_V
 ClientSampleId :
 MDL02

Tgt Ion: 97 Resp: 11100
 Ion Ratio Lower Upper
 97 100
 99 34.2 50.6 76.0#
 61 23.0 33.0 49.4#

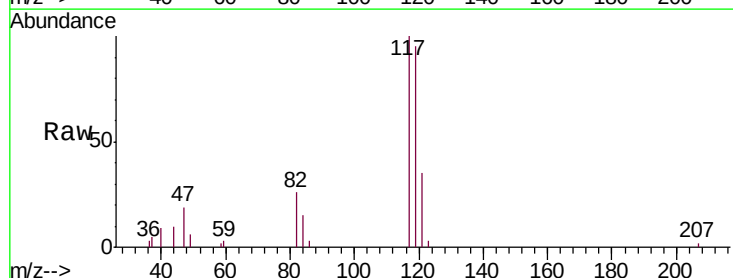


Abundance Ion 97.00 (96.70 to 97.70): VV0
 Ion 99.00 (98.70 to 99.70): VV0
 Ion 61.05 (60.75 to 61.75): VV0

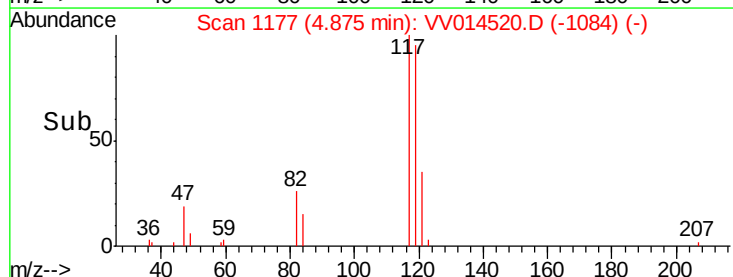
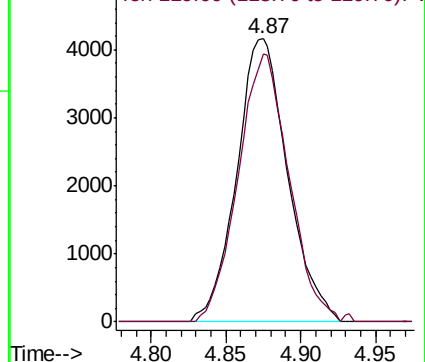


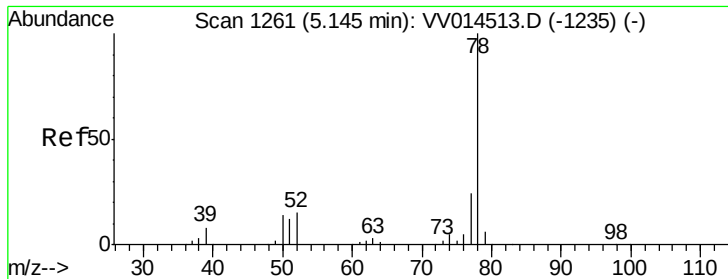
#31
 Carbon tetrachloride
 Concen: 2.606 ug/L
 RT: 4.87 min Scan# 1177
 Delta R.T. 0.00 min
 Lab File: VV014520.D
 Acq: 06 Feb 2020 15:38

Tgt Ion: 117 Resp: 9870
 Ion Ratio Lower Upper
 117 100
 119 94.2 76.7 115.1



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

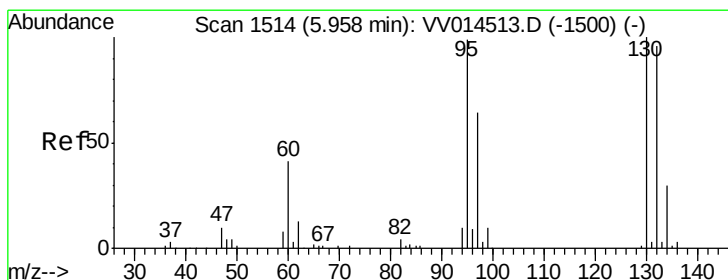
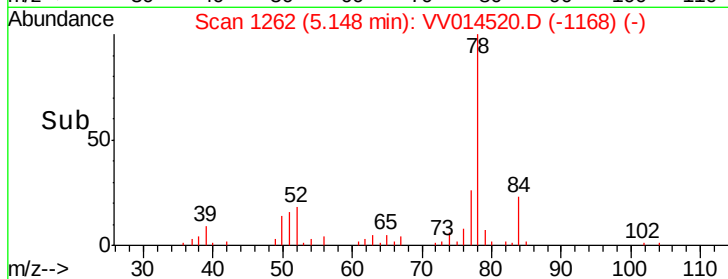
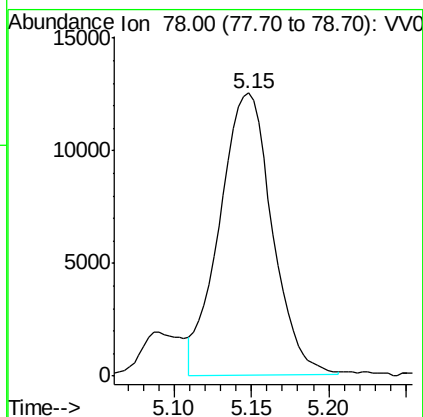
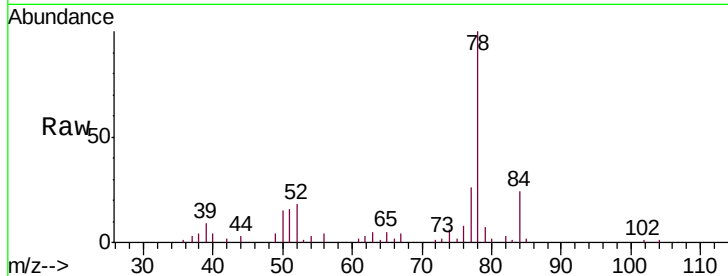




#33
Benzene
Concen: 2.676 ug/L
RT: 5.15 min Scan# 1262
Delta R.T. 0.00 min
Lab File: VV014520.D
Acq: 06 Feb 2020 15:38

Instrument :
MSVOA_V
ClientSampled :
MDL02

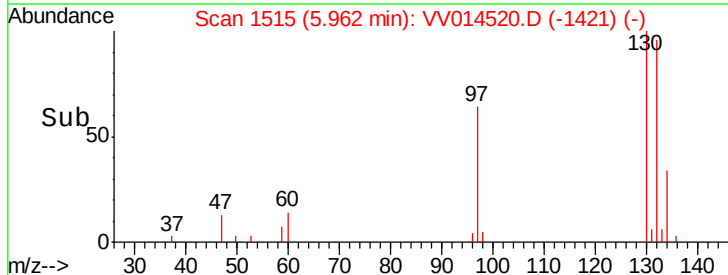
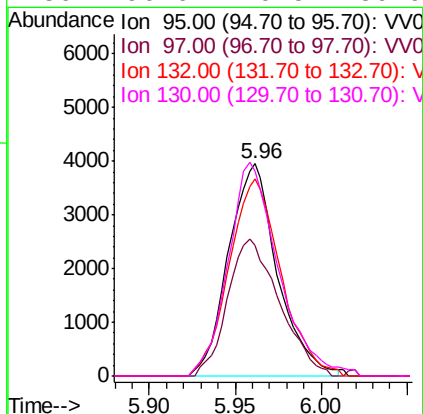
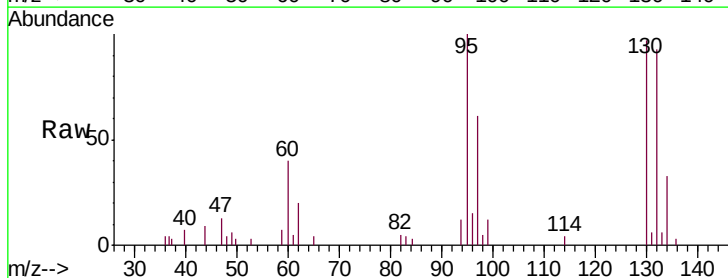
Tgt Ion: 78 Resp: 29587

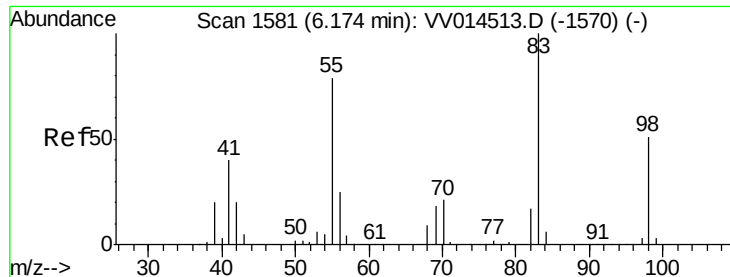


#34
Trichloroethene
Concen: 2.665 ug/L
RT: 5.96 min Scan# 1515
Delta R.T. 0.00 min
Lab File: VV014520.D
Acq: 06 Feb 2020 15:38

Tgt Ion: 95 Resp: 7811

Ion	Ratio	Lower	Upper
95	100		
97	61.5	45.1	83.7
132	92.9	67.7	125.7
130	96.6	70.5	130.9

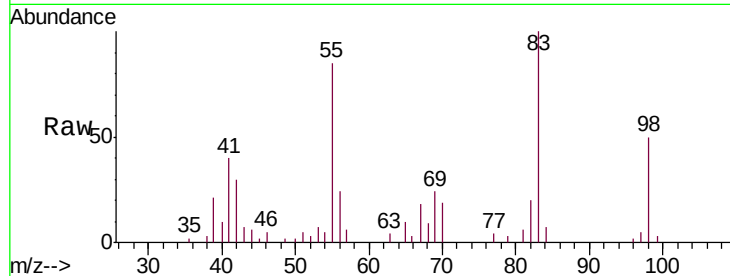




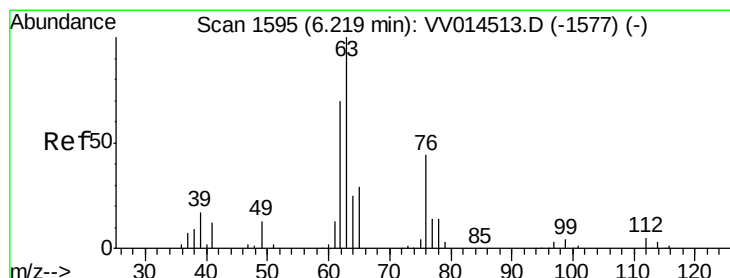
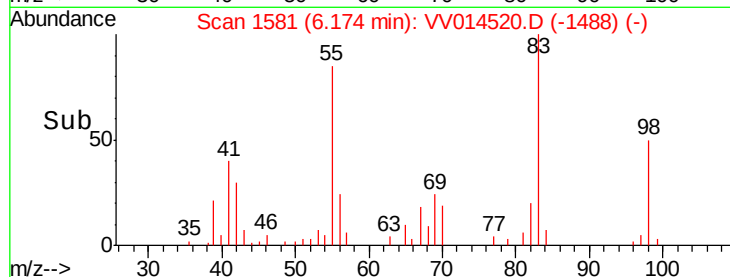
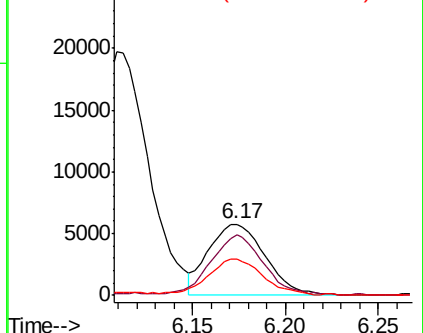
#35
Methylcyclohexane
Concen: 2.568 ug/L
RT: 6.17 min Scan# 1581
Delta R.T. 0.00 min
Lab File: VV014520.D
Acq: 06 Feb 2020 15:38

Instrument :
MSVOA_V
ClientSampleId :
MDL02

Tgt Ion: 83 Resp: 12299
Ion Ratio Lower Upper
83 100
55 77.9 60.7 91.1
98 49.4 39.4 59.0

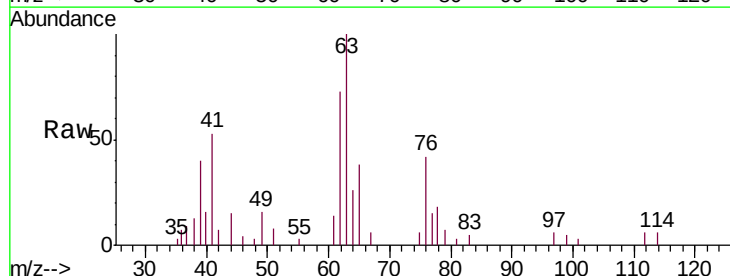


Abundance Ion 83.00 (82.70 to 83.70): VV0
Ion 55.00 (54.70 to 55.70): VV0
Ion 98.00 (97.70 to 98.70): VV0

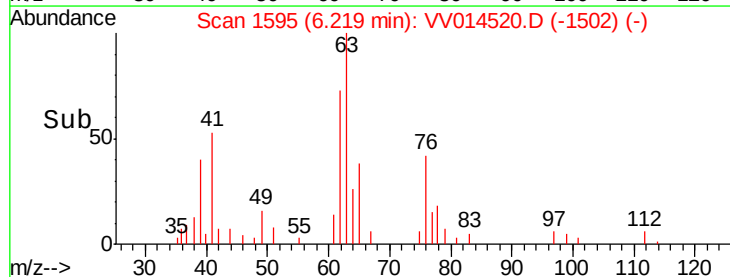
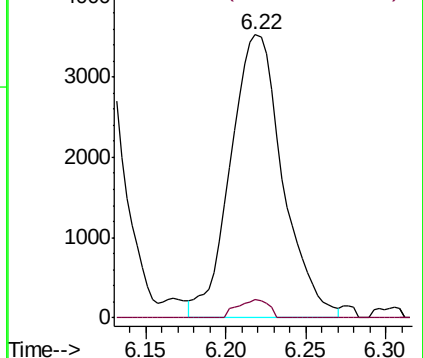


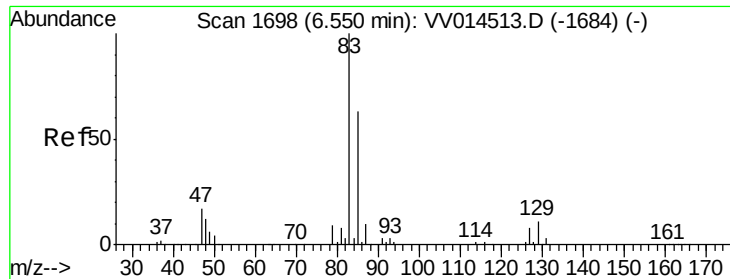
#37
1,2-Dichloropropane
Concen: 2.801 ug/L
RT: 6.22 min Scan# 1595
Delta R.T. 0.00 min
Lab File: VV014520.D
Acq: 06 Feb 2020 15:38

Tgt Ion: 63 Resp: 7888
Ion Ratio Lower Upper
63 100
112 3.8 3.7 5.5



Abundance Ion 63.00 (62.70 to 63.70): VV0
Ion 112.00 (111.70 to 112.70): V





#38

Bromodichloromethane

Concen: 2.612 ug/L

RT: 6.55 min Scan# 1699

Delta R.T. 0.00 min

Lab File: VV014520.D

Acq: 06 Feb 2020 15:38

Instrument :

MSVOA_V

ClientSampleId :

MDL02

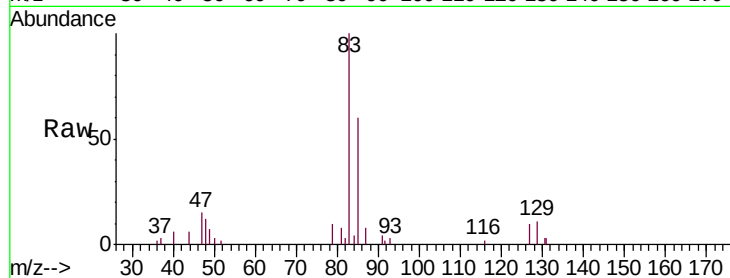
Tgt Ion: 83 Resp: 9874

Ion Ratio Lower Upper

83 100

85 60.3 44.4 82.4

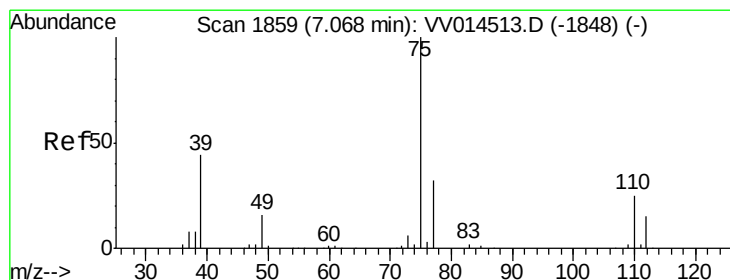
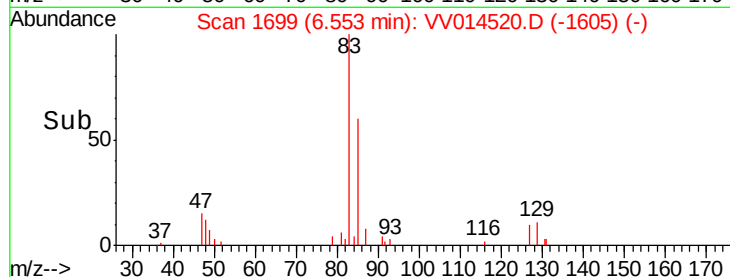
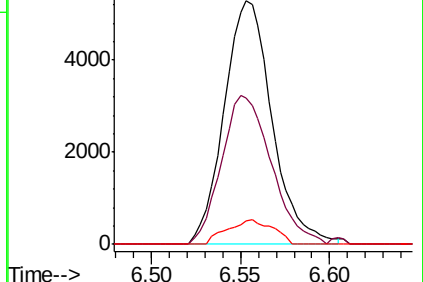
127 9.6 6.7 10.1



Abundance Ion 83.00 (82.70 to 83.70): VV014520.D (-1695) (-)

Ion 85.00 (84.70 to 85.70): VV014520.D (-1695) (-)

Ion 127.00 (126.70 to 127.70): VV014520.D (-1695) (-)



#39

cis-1,3-Dichloropropene

Concen: 2.466 ug/L

RT: 7.07 min Scan# 1859

Delta R.T. 0.00 min

Lab File: VV014520.D

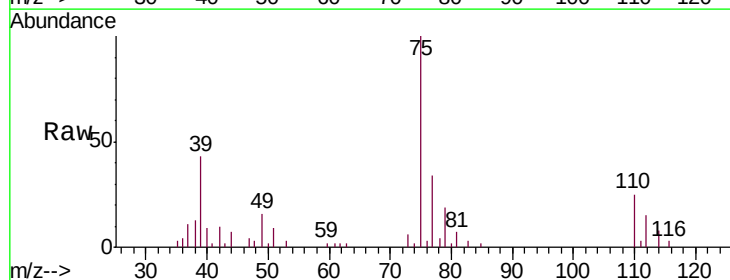
Acq: 06 Feb 2020 15:38

Tgt Ion: 75 Resp: 11585

Ion Ratio Lower Upper

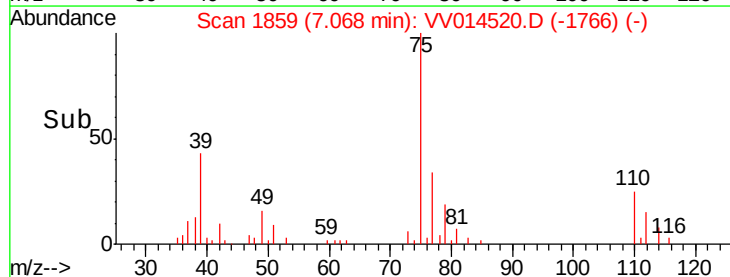
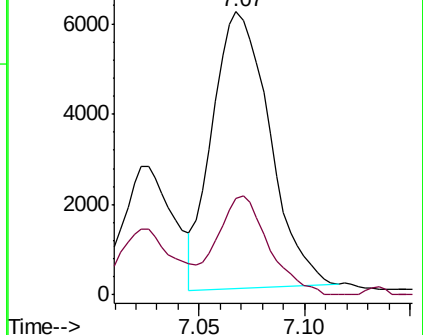
75 100

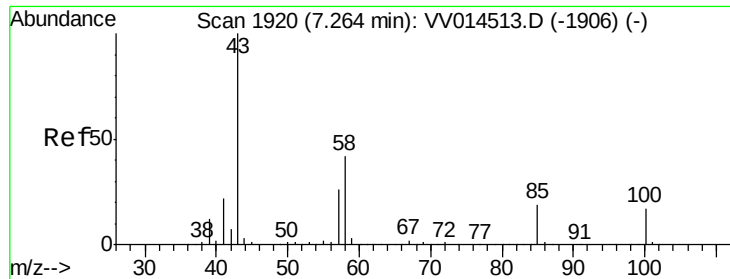
77 34.1 22.7 42.1



Abundance Ion 75.00 (74.70 to 75.70): VV014520.D (-1766) (-)

Ion 77.00 (76.70 to 77.70): VV014520.D (-1766) (-)

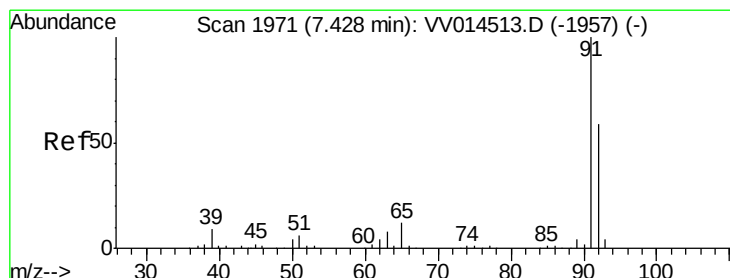
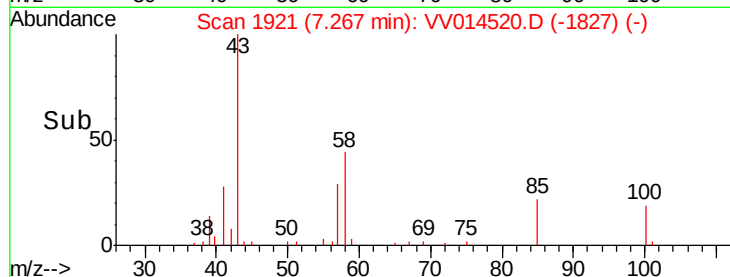
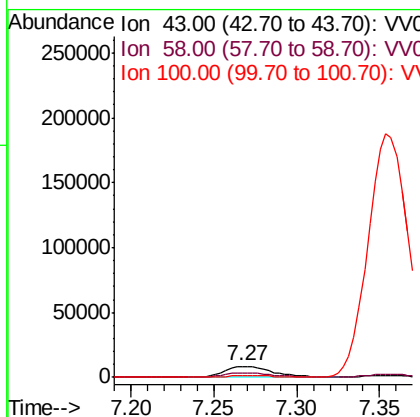
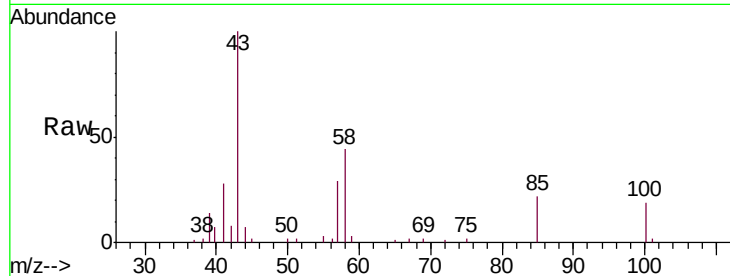




#40
 4-Methyl-2-pentanone
 Concen: 4.703 ug/L
 RT: 7.27 min Scan# 1921
 Delta R.T. 0.00 min
 Lab File: VV014520.D
 Acq: 06 Feb 2020 15:38

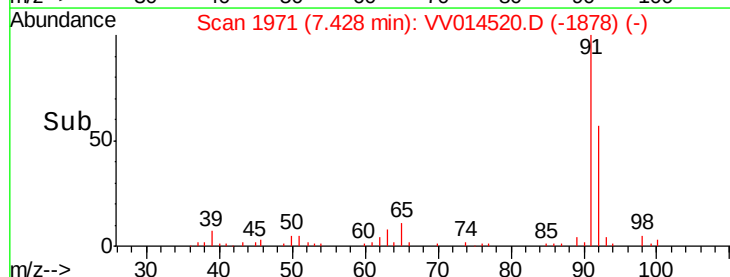
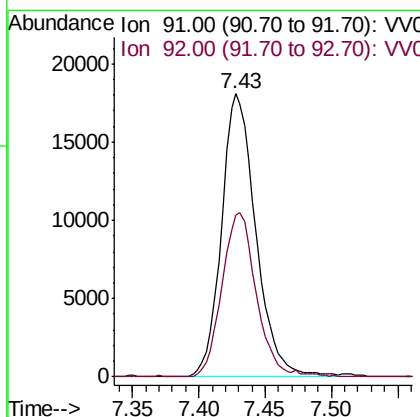
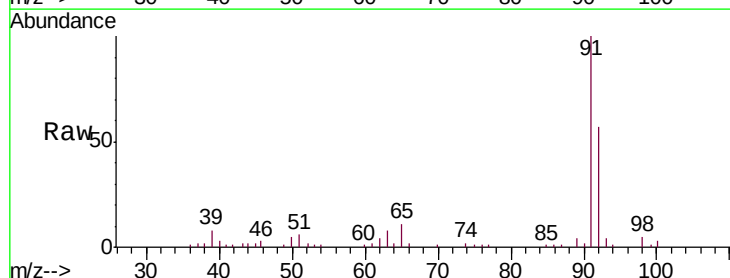
Instrument :
 MSVOA_V
 ClientSampled :
 MDL02

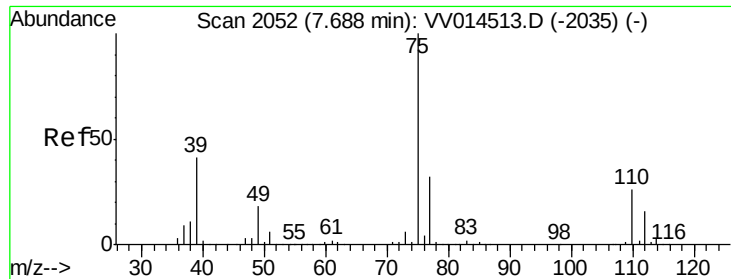
Tgt Ion: 43 Resp: 17117
 Ion Ratio Lower Upper
 43 100
 58 43.2 33.2 49.8
 100 16.2 13.9 20.9



#42
 Toluene
 Concen: 2.740 ug/L
 RT: 7.43 min Scan# 1971
 Delta R.T. 0.00 min
 Lab File: VV014520.D
 Acq: 06 Feb 2020 15:38

Tgt Ion: 91 Resp: 32482
 Ion Ratio Lower Upper
 91 100
 92 57.3 41.6 77.2





#44

trans-1,3-Dichloropropene

Concen: 3.420 ug/L

RT: 7.69 min Scan# 2053

Delta R.T. 0.00 min

Lab File: VV014520.D

Acq: 06 Feb 2020 15:38

Instrument :

MSVOA_V

ClientSampleId :

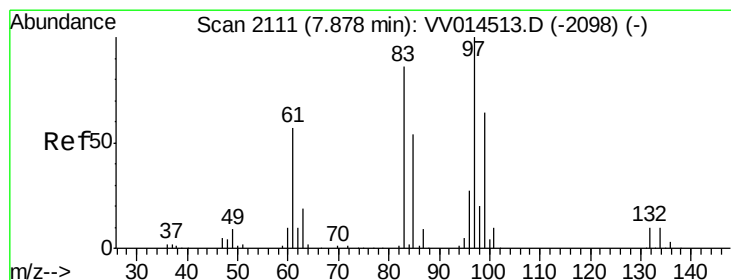
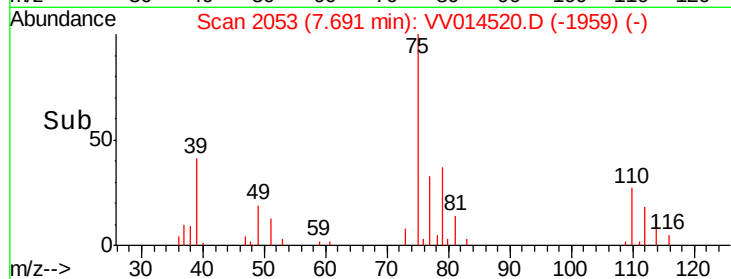
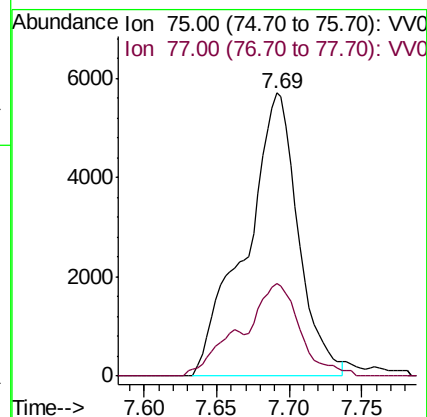
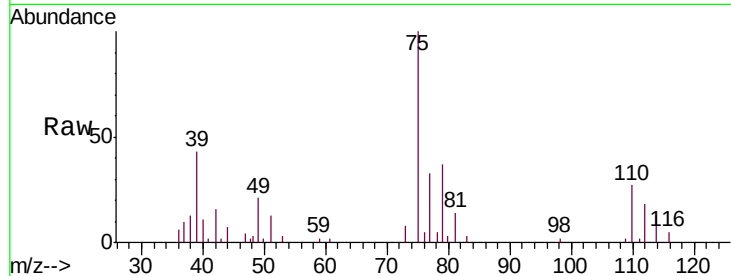
MDL02

Tgt Ion: 75 Resp: 14407

Ion Ratio Lower Upper

75 100

77 32.7 22.2 41.2



#45

1,1,2-Trichloroethane

Concen: 2.699 ug/L

RT: 7.88 min Scan# 2111

Delta R.T. 0.00 min

Lab File: VV014520.D

Acq: 06 Feb 2020 15:38

Tgt Ion: 97 Resp: 7293

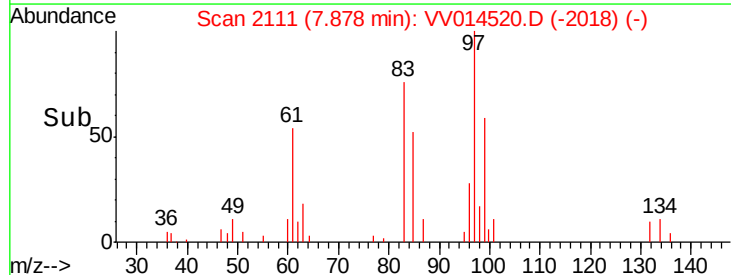
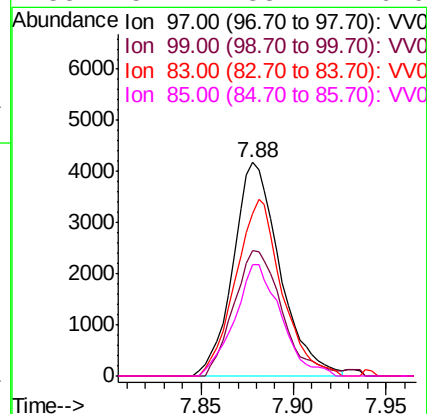
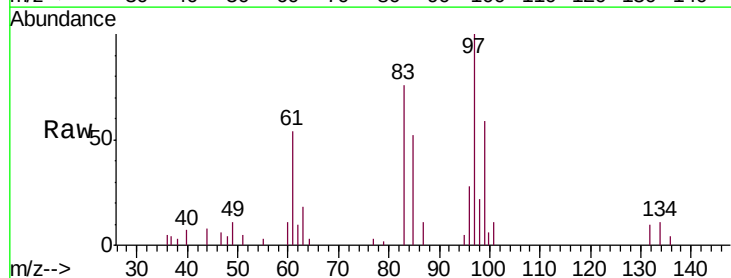
Ion Ratio Lower Upper

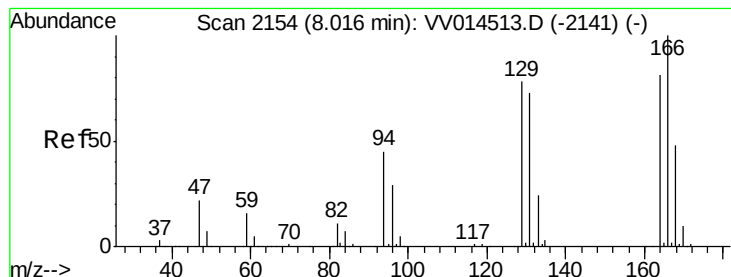
97 100

99 58.8 44.5 82.7

83 76.3 60.1 111.5

85 52.2 38.1 70.9





#46

Tetrachloroethene

Concen: 2.660 ug/L

RT: 8.02 min Scan# 2154

Delta R.T. 0.00 min

Lab File: VV014520.D

Acq: 06 Feb 2020 15:38

Instrument :
MSVOA_V
ClientSampled :
MDL02

Tgt Ion:164 Resp: 5947

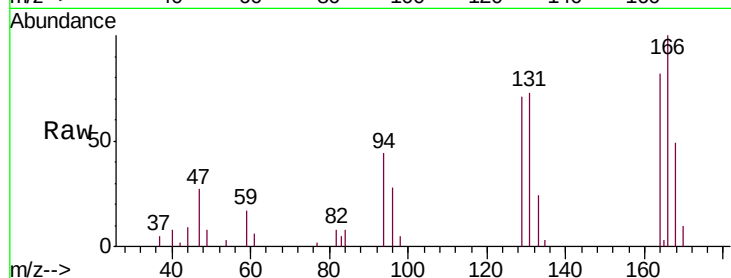
Ion Ratio Lower Upper

164 100

129 87.3 68.0 126.4

131 89.5 63.4 117.8

166 122.5 86.9 161.3

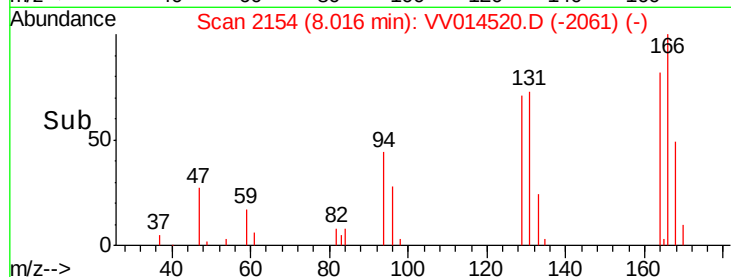


Abundance Ion 164.00 (163.70 to 164.70): V

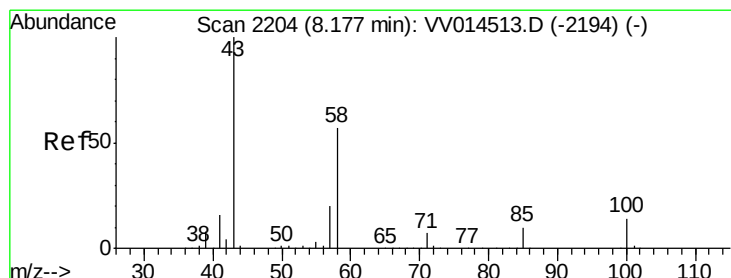
Ion 129.00 (128.70 to 129.70): V

Ion 131.00 (130.70 to 131.70): V

Ion 166.00 (165.70 to 166.70): V



Time-->



#48

2-Hexanone

Concen: 5.087 ug/L

RT: 8.18 min Scan# 2205

Delta R.T. 0.00 min

Lab File: VV014520.D

Acq: 06 Feb 2020 15:38

Tgt Ion: 43 Resp: 14254

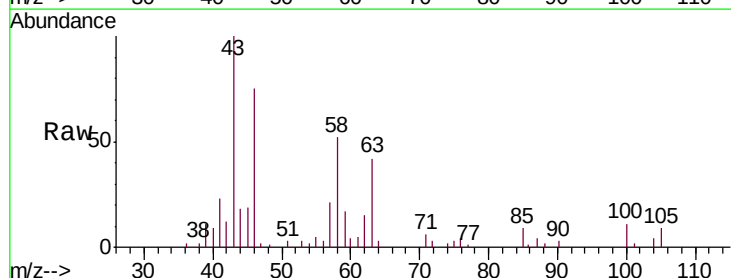
Ion Ratio Lower Upper

43 100

58 62.3 45.5 68.3

57 22.5 15.8 23.6

100 14.7 10.8 16.2

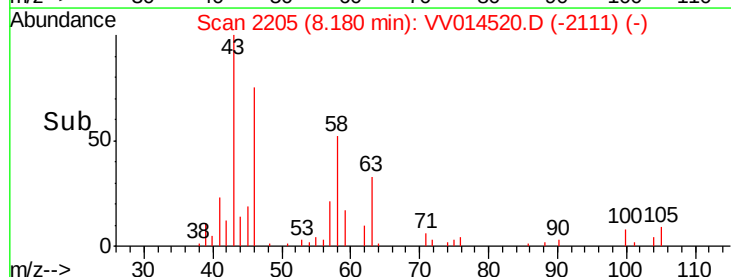


Abundance Ion 43.00 (42.70 to 43.70): VV0

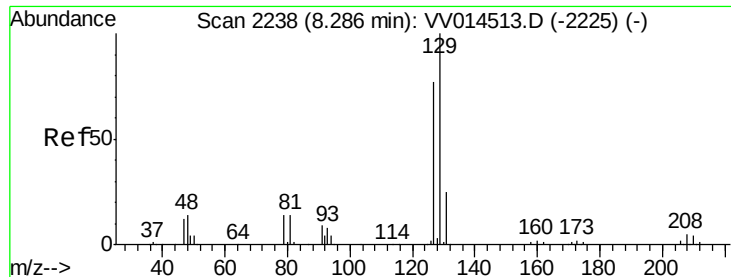
Ion 58.00 (57.70 to 58.70): VV0

Ion 57.00 (56.70 to 57.70): VV0

Ion 100.00 (99.70 to 100.70): VV0



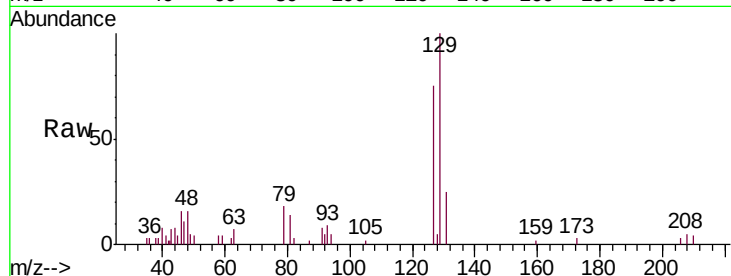
Time-->



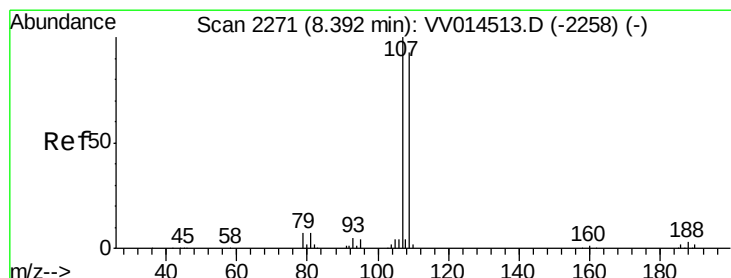
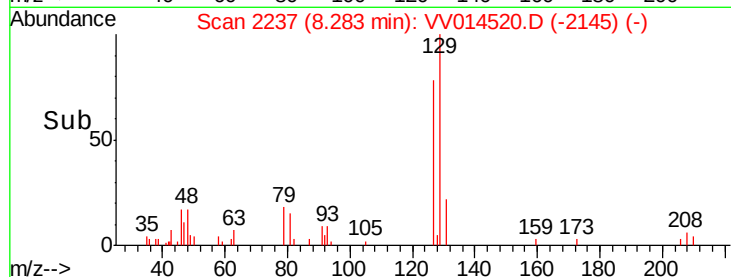
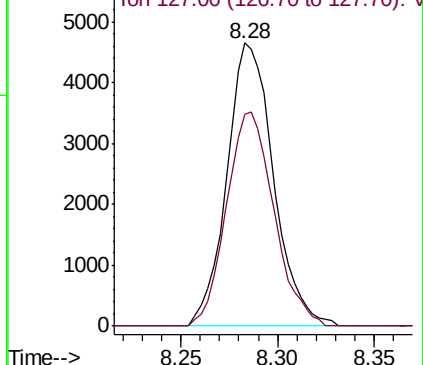
#49
Dibromochloromethane
Concen: 2.561 ug/L
RT: 8.28 min Scan# 2237
Delta R.T. -0.00 min
Lab File: VV014520.D
Acq: 06 Feb 2020 15:38

Instrument :
MSVOA_V
ClientSampleId :
MDL02

Tgt Ion:129 Resp: 7814
Ion Ratio Lower Upper
129 100
127 74.7 54.1 100.5

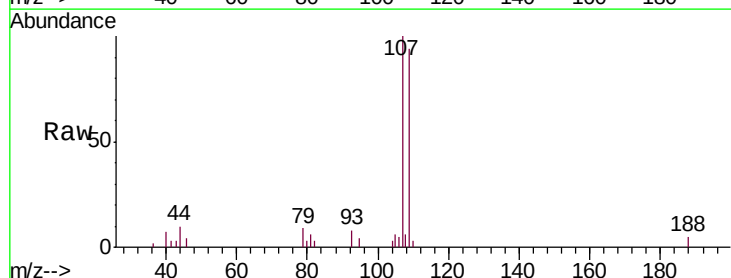


Abundance Ion 129.00 (128.70 to 129.70): V
Ion 127.00 (126.70 to 127.70): V

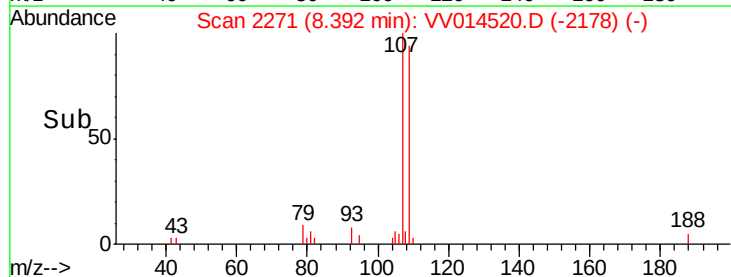
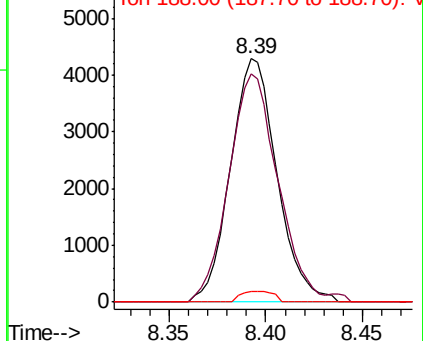


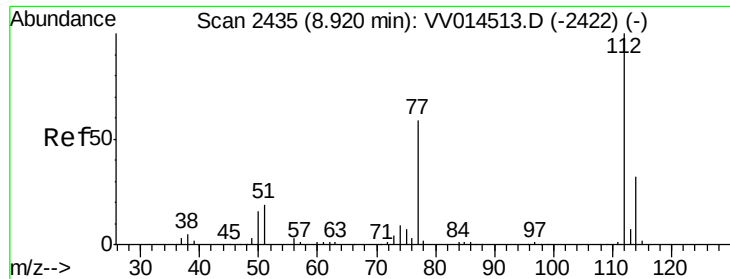
#50
1,2-Dibromoethane
Concen: 2.457 ug/L
RT: 8.39 min Scan# 2271
Delta R.T. 0.00 min
Lab File: VV014520.D
Acq: 06 Feb 2020 15:38

Tgt Ion:107 Resp: 7190
Ion Ratio Lower Upper
107 100
109 93.8 65.2 121.2
188 4.5 2.6 4.0#



Abundance Ion 107.00 (106.70 to 107.70): V
Ion 109.00 (108.70 to 109.70): V
Ion 188.00 (187.70 to 188.70): V





#51

Chlorobenzene

Concen: 2.677 ug/L

RT: 8.92 min Scan# 2436

Delta R.T. 0.00 min

Lab File: VV014520.D

Acq: 06 Feb 2020 15:38

Instrument :

MSVOA_V

ClientSampleId :

MDL02

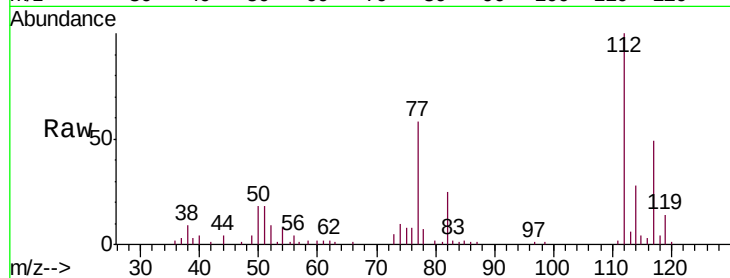
Tgt Ion: 112 Resp: 20731

Ion Ratio Lower Upper

112 100

114 28.4 22.3 41.5

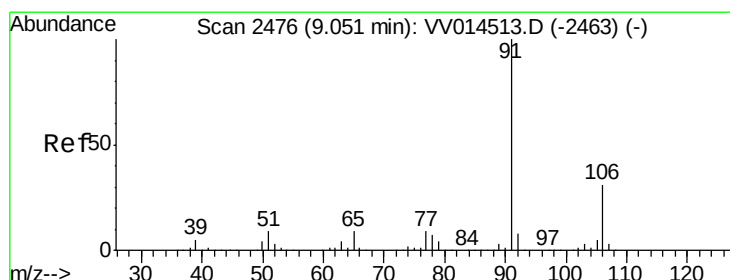
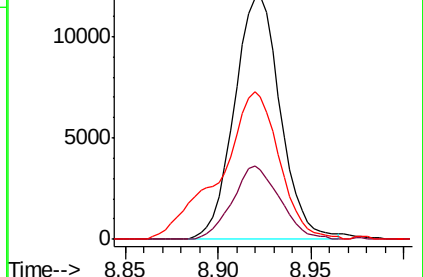
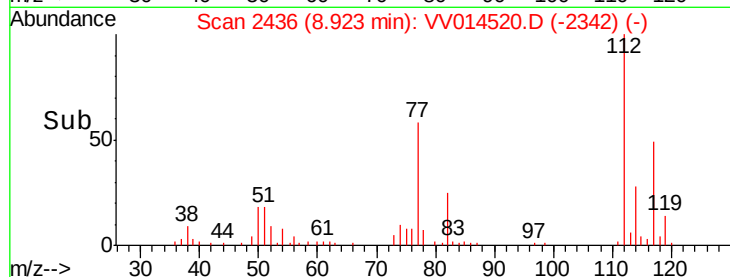
77 58.3 47.3 70.9



Abundance Ion 112.00 (111.70 to 112.70): V

Ion 114.00 (113.70 to 114.70): V

Ion 77.00 (76.70 to 77.70): V



#52

Ethylbenzene

Concen: 2.561 ug/L

RT: 9.05 min Scan# 2476

Delta R.T. 0.00 min

Lab File: VV014520.D

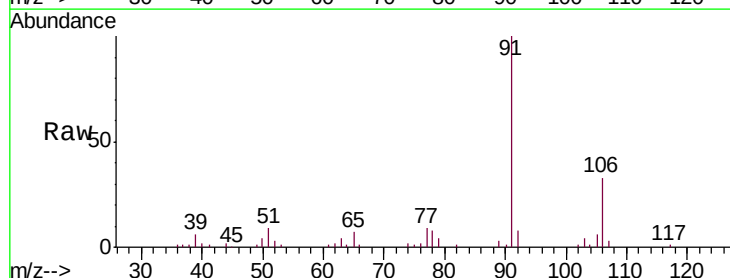
Acq: 06 Feb 2020 15:38

Tgt Ion: 91 Resp: 34048

Ion Ratio Lower Upper

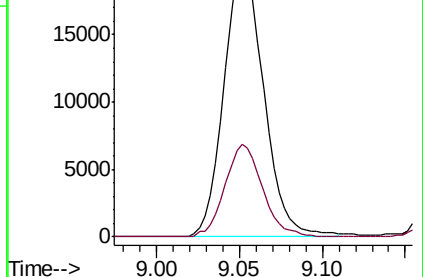
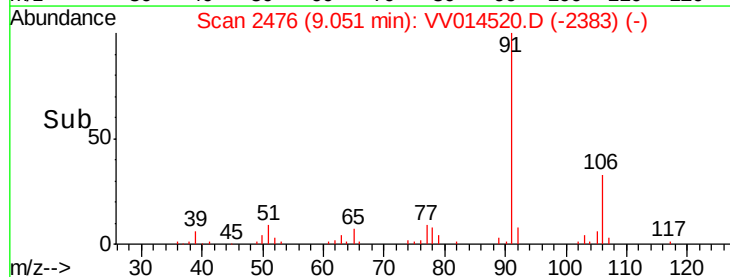
91 100

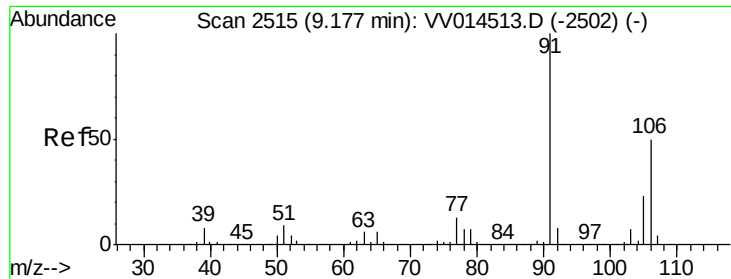
106 32.5 21.5 39.9



Abundance Ion 91.00 (90.70 to 91.70): V

Ion 106.00 (105.70 to 106.70): V





#53

m,p-Xylene

Concen: 2.448 ug/L

RT: 9.18 min Scan# 2515

Delta R.T. 0.00 min

Lab File: VV014520.D

Acq: 06 Feb 2020 15:38

Instrument :

MSVOA_V

ClientSampled :

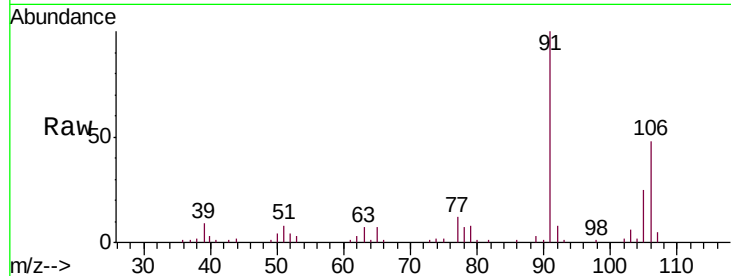
MDL02

Tgt Ion:106 Resp: 12538

Ion Ratio Lower Upper

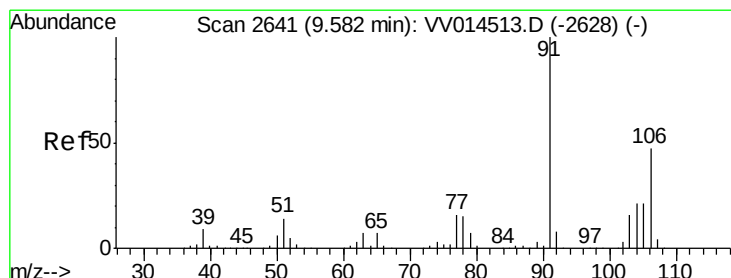
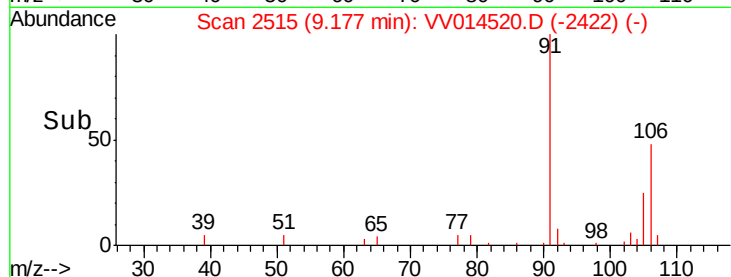
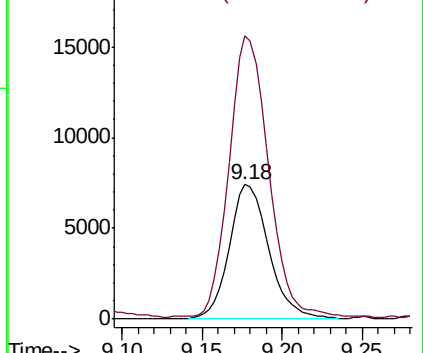
106 100

91 210.2 141.4 262.6



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VV0



#54

o-Xylene

Concen: 2.557 ug/L

RT: 9.58 min Scan# 2641

Delta R.T. 0.00 min

Lab File: VV014520.D

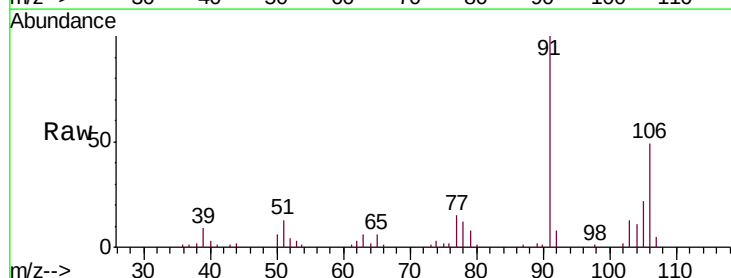
Acq: 06 Feb 2020 15:38

Tgt Ion:106 Resp: 12535

Ion Ratio Lower Upper

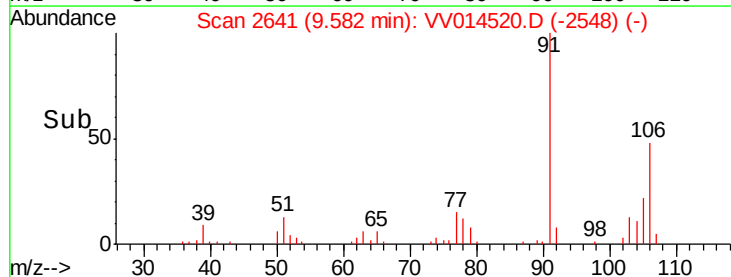
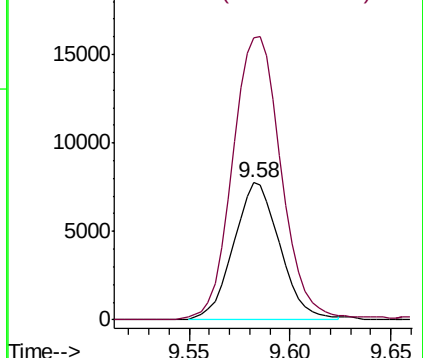
106 100

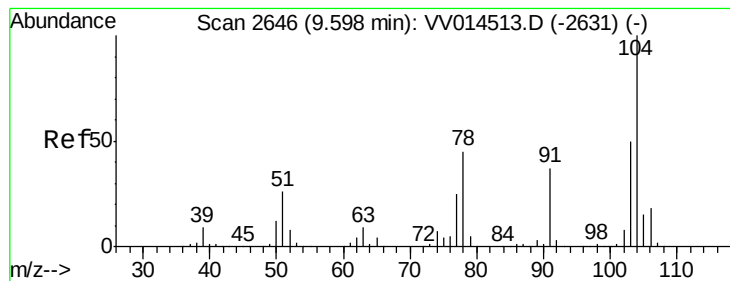
91 205.8 149.4 277.4



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VV0





#55

Styrene

Concen: 2.556 ug/L

RT: 9.60 min Scan# 2647

Delta R.T. 0.00 min

Lab File: VV014520.D

Acq: 06 Feb 2020 15:38

Instrument :

MSVOA_V

ClientSampled :

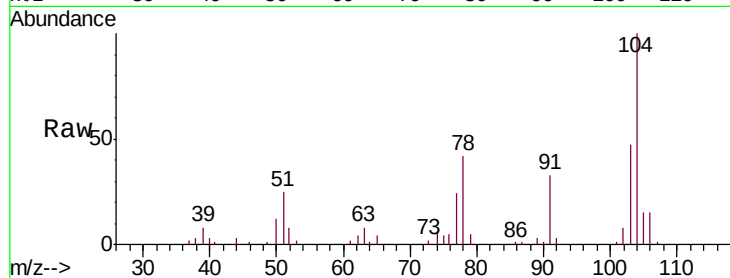
MDL02

Tgt Ion: 104 Resp: 21415

Ion Ratio Lower Upper

104 100

78 41.5 31.6 58.8



Abundance Ion 104.00 (103.70 to 104.70): VV014520.D (-2553) (-)

Ion 78.00 (77.70 to 78.70): VV014520.D (-2553) (-)

9.60

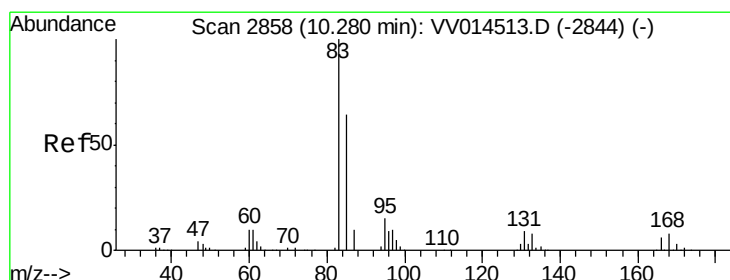
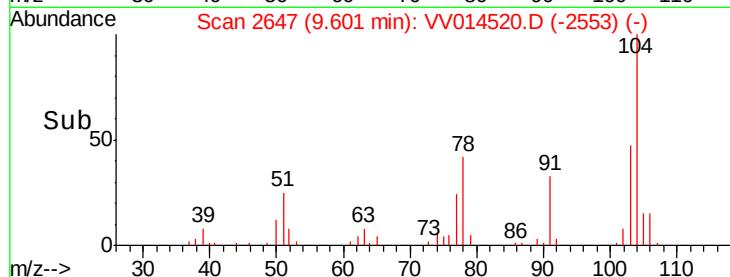
15000

10000

5000

0

Time-->



#57

1,1,2,2-Tetrachloroethane

Concen: 2.901 ug/L

RT: 10.28 min Scan# 2858

Delta R.T. 0.00 min

Lab File: VV014520.D

Acq: 06 Feb 2020 15:38

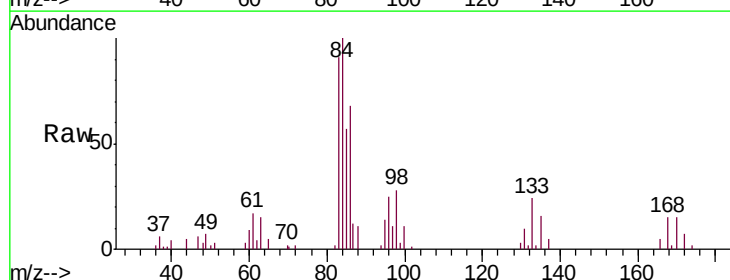
Tgt Ion: 83 Resp: 12286

Ion Ratio Lower Upper

83 100

85 62.5 45.2 84.0

131 11.4 7.8 11.8



Abundance Ion 83.00 (82.70 to 83.70): VV014520.D (-2765) (-)

Ion 85.00 (84.70 to 85.70): VV014520.D (-2765) (-)

Ion 131.00 (130.70 to 131.70): VV014520.D (-2765) (-)

10.28

8000

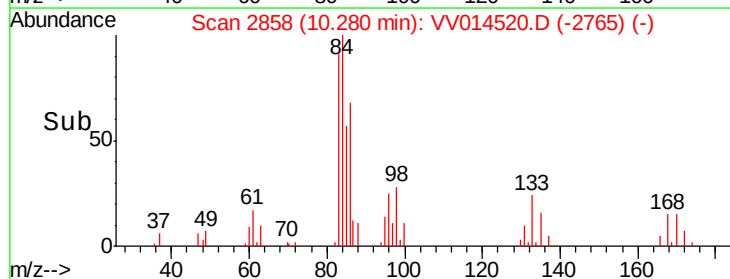
6000

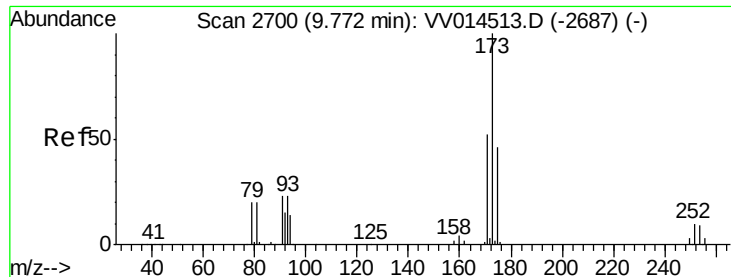
4000

2000

0

Time-->





#59

Bromoform

Concen: 2.475 ug/L

RT: 9.77 min Scan# 2700

Delta R.T. 0.00 min

Lab File: VV014520.D

Acq: 06 Feb 2020 15:38

Instrument :

MSVOA_V

ClientSampleId :

MDL02

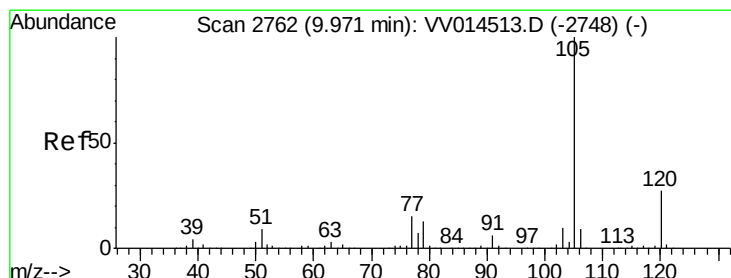
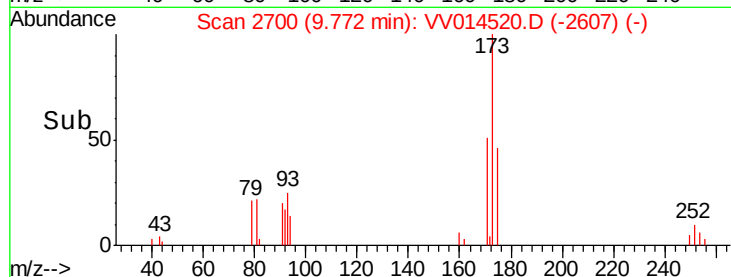
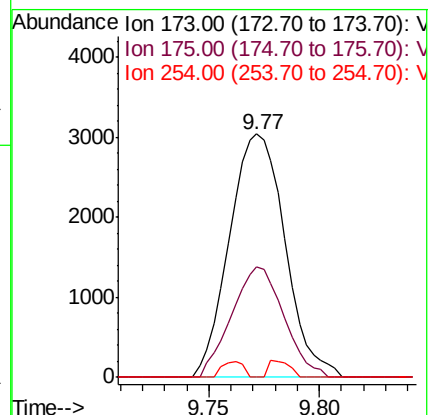
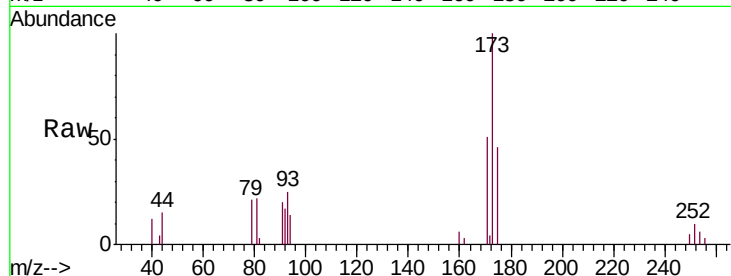
Tgt Ion:173 Resp: 5326

Ion Ratio Lower Upper

173 100

175 42.4 37.8 56.8

254 2.6 7.0 10.6#



#60

Isopropylbenzene

Concen: 2.488 ug/L

RT: 9.97 min Scan# 2762

Delta R.T. 0.00 min

Lab File: VV014520.D

Acq: 06 Feb 2020 15:38

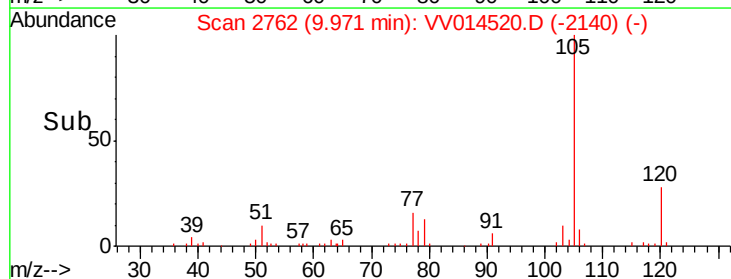
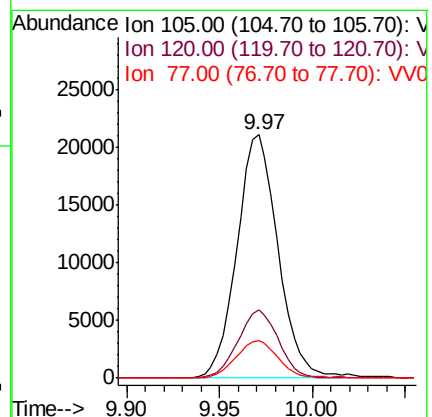
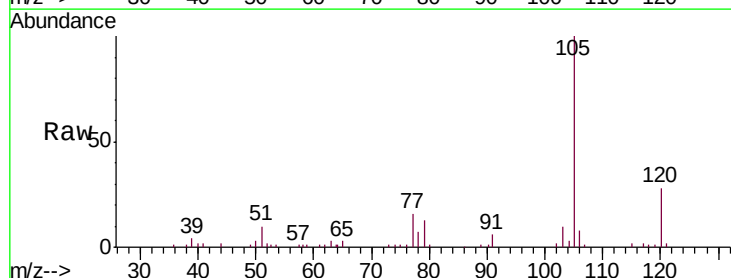
Tgt Ion:105 Resp: 32467

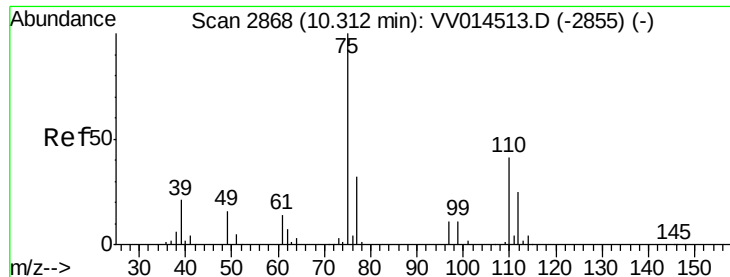
Ion Ratio Lower Upper

105 100

120 27.3 21.5 32.3

77 15.8 12.2 18.4

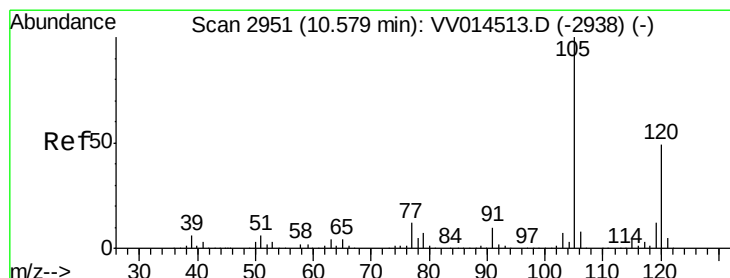
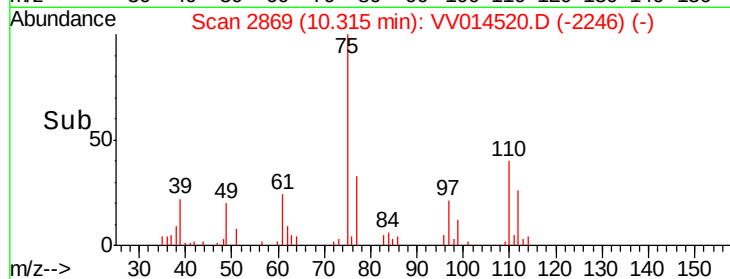
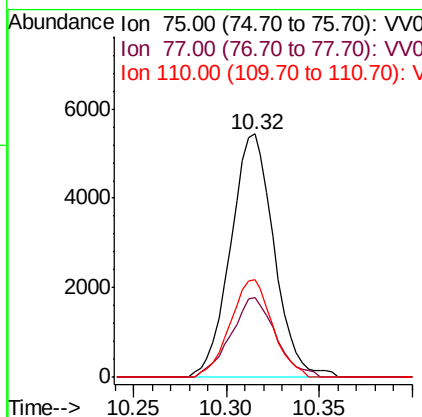
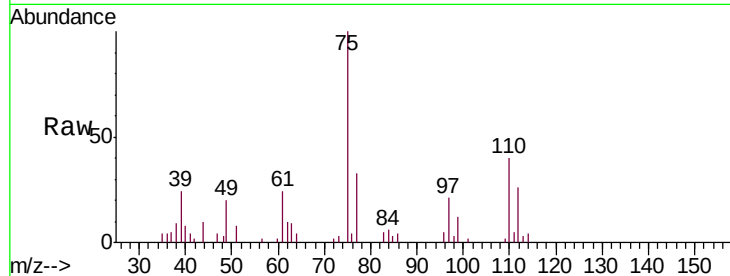




#61
 1,2,3-Trichloropropane
 Concen: 2.589 ug/L
 RT: 10.32 min Scan# 2869
 Delta R.T. 0.00 min
 Lab File: VV014520.D
 Acq: 06 Feb 2020 15:38

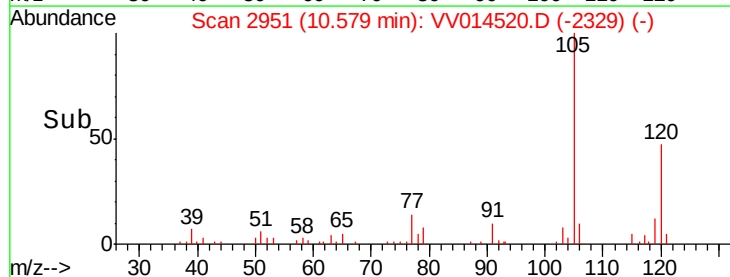
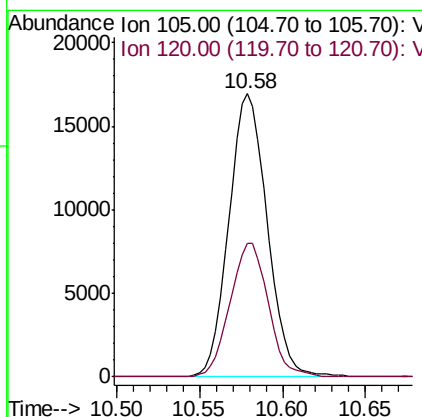
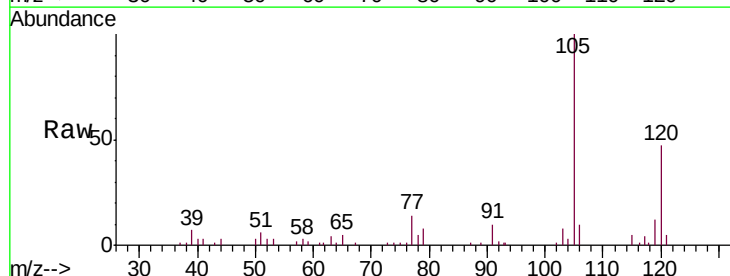
Instrument :
 MSVOA_V
 ClientSampleId :
 MDL02

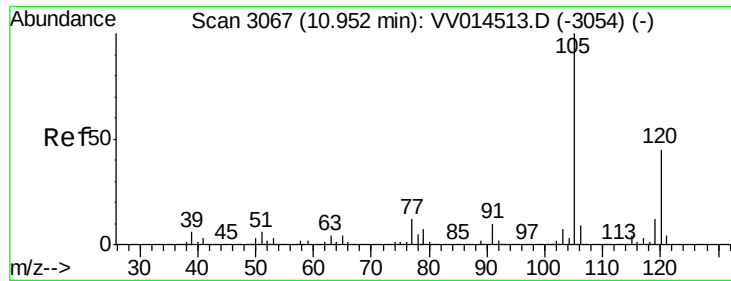
Tgt Ion: 75 Resp: 8848
 Ion Ratio Lower Upper
 75 100
 77 33.9 25.8 38.8
 110 39.2 32.4 48.6



#62
 1,3,5-Trimethylbenzene
 Concen: 2.442 ug/L
 RT: 10.58 min Scan# 2951
 Delta R.T. 0.00 min
 Lab File: VV014520.D
 Acq: 06 Feb 2020 15:38

Tgt Ion: 105 Resp: 27278
 Ion Ratio Lower Upper
 105 100
 120 47.0 39.0 58.6

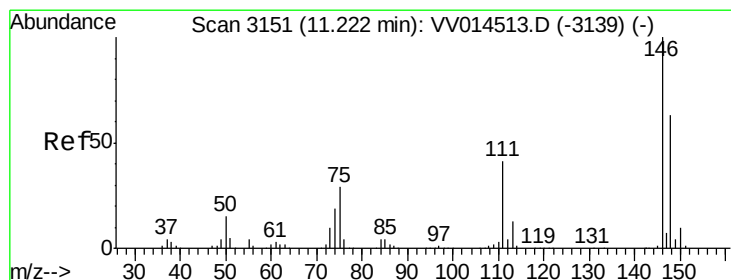
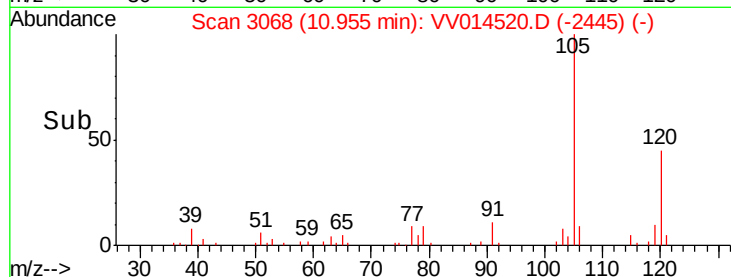
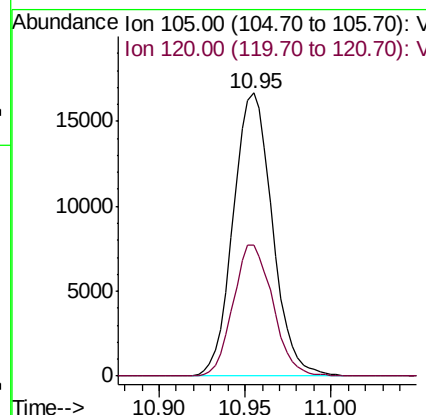
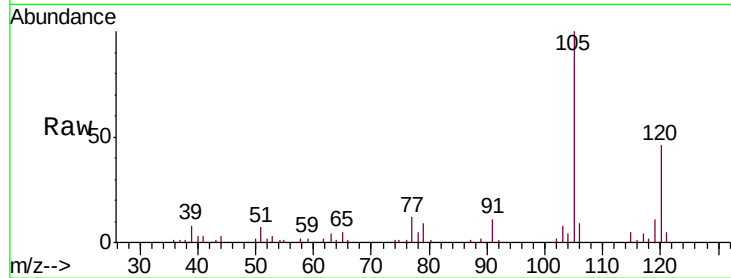




#63
 1,2,4-Trimethylbenzene
 Concen: 2.392 ug/L
 RT: 10.95 min Scan# 3068
 Delta R.T. 0.00 min
 Lab File: VV014520.D
 Acq: 06 Feb 2020 15:38

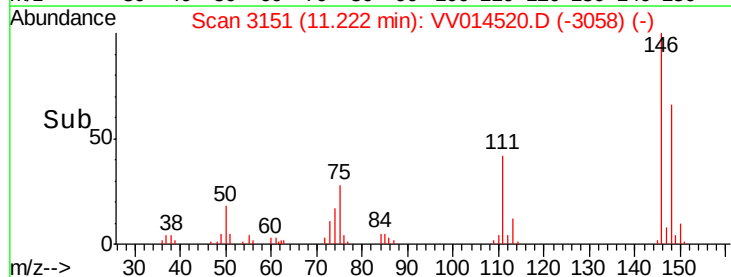
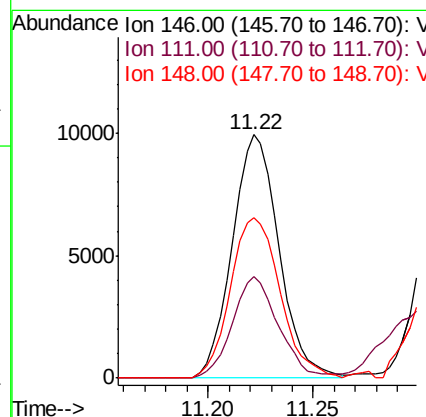
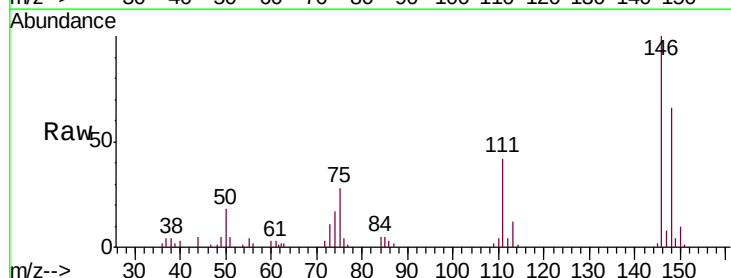
Instrument :
 MSVOA_V
 ClientSampled :
 MDL02

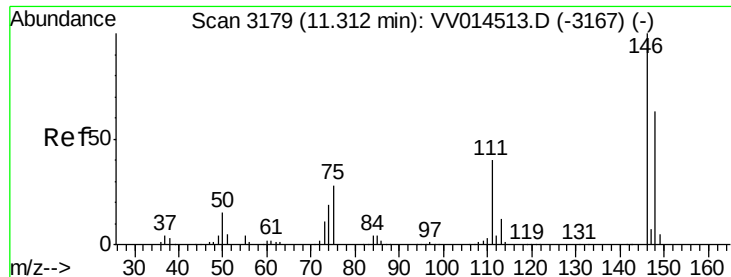
Tgt Ion:105 Resp: 26340
 Ion Ratio Lower Upper
 105 100
 120 46.8 36.2 54.4



#64
 1,3-Dichlorobenzene
 Concen: 2.491 ug/L
 RT: 11.22 min Scan# 3151
 Delta R.T. 0.00 min
 Lab File: VV014520.D
 Acq: 06 Feb 2020 15:38

Tgt Ion:146 Resp: 15335
 Ion Ratio Lower Upper
 146 100
 111 41.8 28.9 53.7
 148 65.7 44.4 82.5

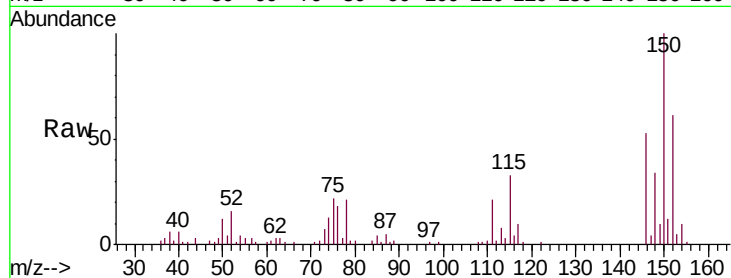




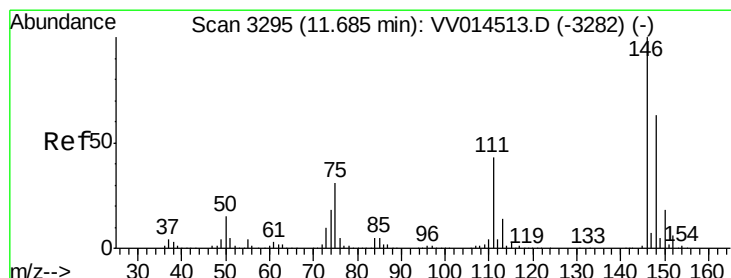
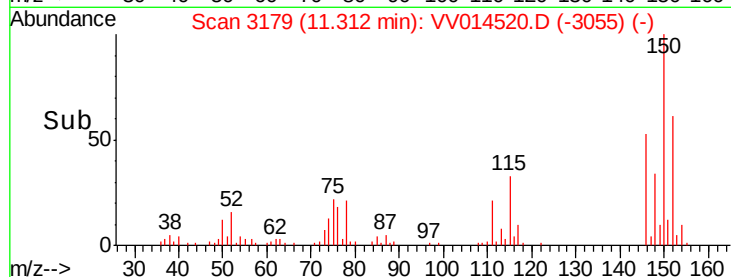
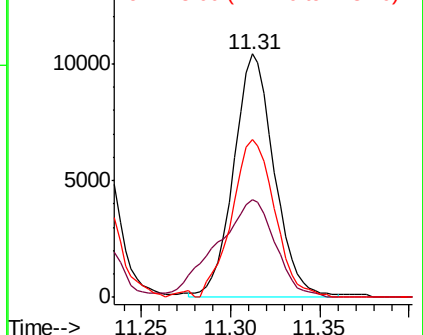
#65
 1,4-Dichlorobenzene
 Concen: 2.615 ug/L
 RT: 11.31 min Scan# 3179
 Delta R.T. 0.00 min
 Lab File: VV014520.D
 Acq: 06 Feb 2020 15:38

Instrument :
 MSVOA_V
 ClientSampled :
 MDL02

Tgt Ion:146 Resp: 16569
 Ion Ratio Lower Upper
 146 100
 111 40.2 28.1 52.3
 148 64.7 44.4 82.4

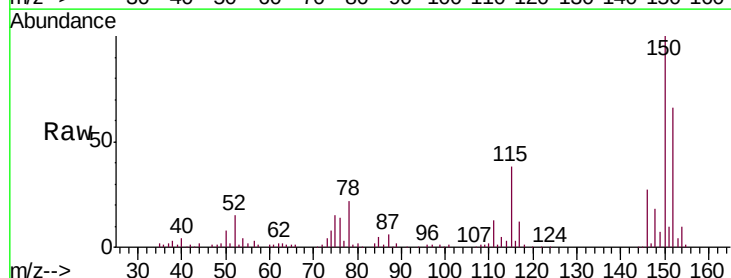


Abundance Ion 146.00 (145.70 to 146.70): V
 Ion 111.00 (110.70 to 111.70): V
 Ion 148.00 (147.70 to 148.70): V

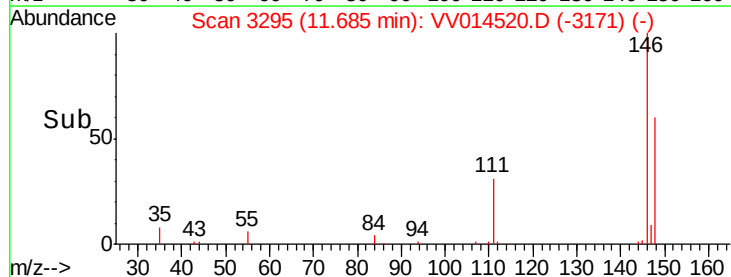
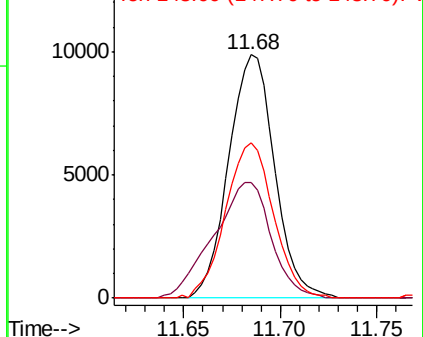


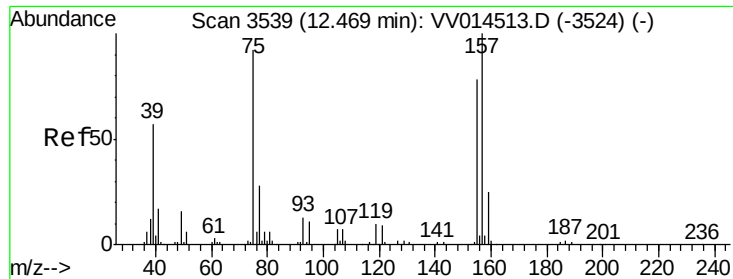
#67
 1,2-Dichlorobenzene
 Concen: 2.737 ug/L
 RT: 11.68 min Scan# 3295
 Delta R.T. 0.00 min
 Lab File: VV014520.D
 Acq: 06 Feb 2020 15:38

Tgt Ion:146 Resp: 16336
 Ion Ratio Lower Upper
 146 100
 111 47.7 34.6 51.8
 148 64.0 50.2 75.4



Abundance Ion 146.00 (145.70 to 146.70): V
 Ion 111.00 (110.70 to 111.70): V
 Ion 148.00 (147.70 to 148.70): V





#68

1,2-Dibromo-3-chloropropane

Concen: 2.589 ug/L

RT: 12.47 min Scan# 3540

Delta R.T. 0.00 min

Lab File: VV014520.D

Acq: 06 Feb 2020 15:38

Instrument :

MSVOA_V

ClientSampleId :

MDL02

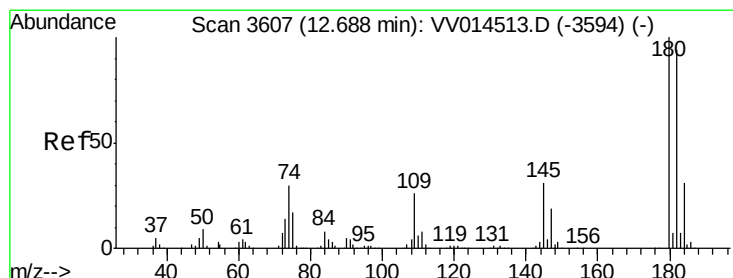
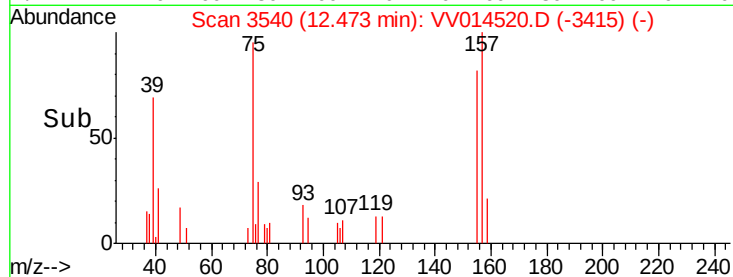
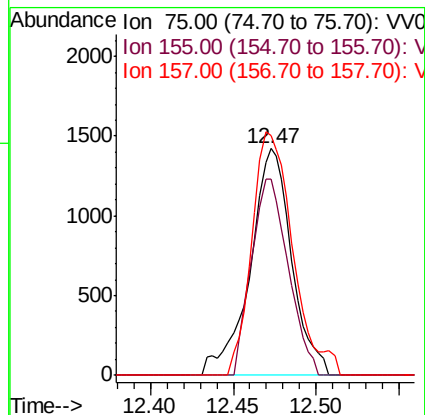
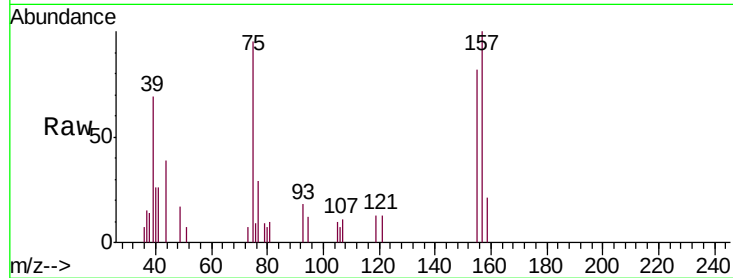
Tgt Ion: 75 Resp: 2478

Ion Ratio Lower Upper

75 100

155 86.8 68.3 102.5

157 105.7 87.1 130.7



#69

1,3,5-Trichlorobenzene

Concen: 2.549 ug/L

RT: 12.69 min Scan# 3608

Delta R.T. 0.00 min

Lab File: VV014520.D

Acq: 06 Feb 2020 15:38

Tgt Ion: 180 Resp: 11054

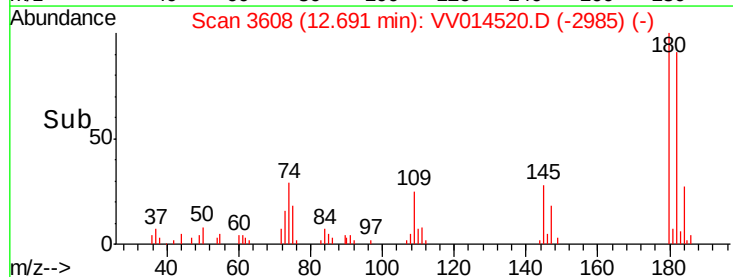
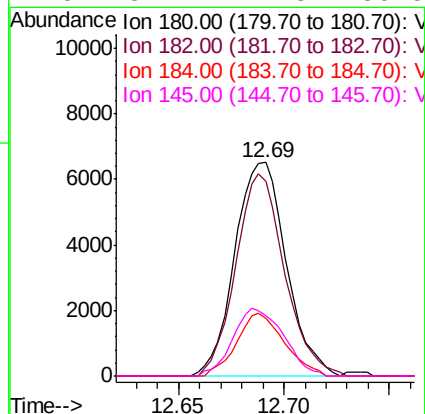
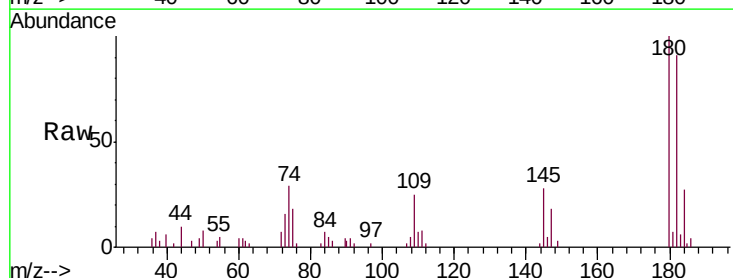
Ion Ratio Lower Upper

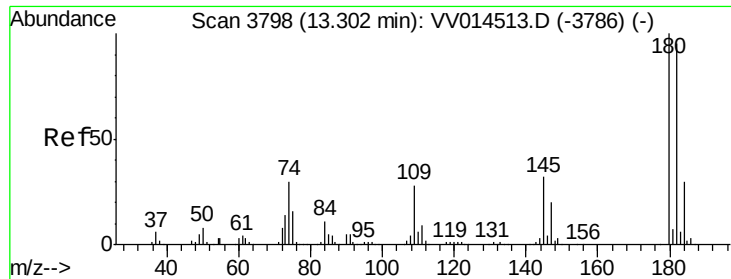
180 100

182 89.6 75.0 112.4

184 27.1 24.2 36.2

145 31.1 24.3 36.5

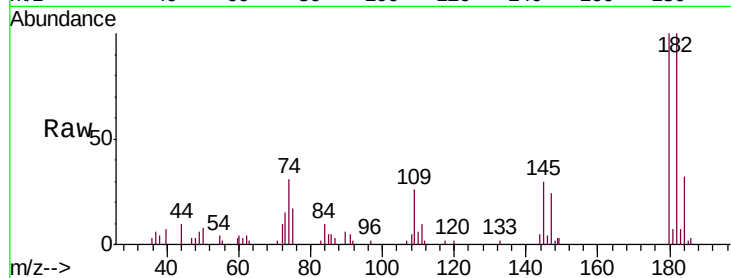




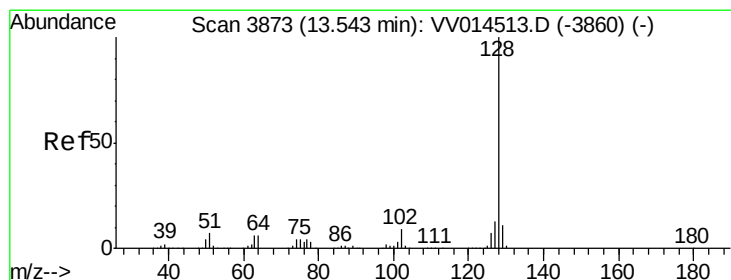
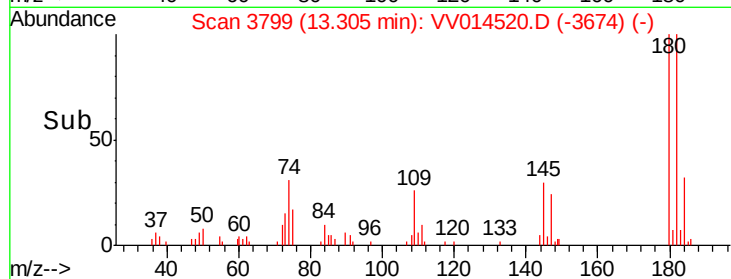
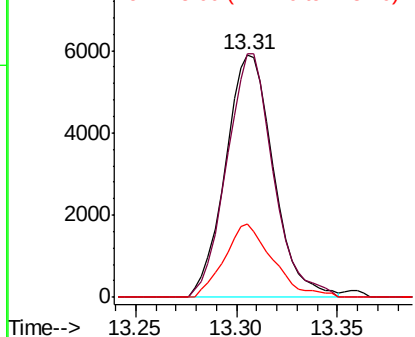
#70
 1,2,4-trichlorobenzene
 Concen: 2.469 ug/L
 RT: 13.31 min Scan# 3799
 Delta R.T. 0.00 min
 Lab File: VV014520.D
 Acq: 06 Feb 2020 15:38

Instrument :
 MSVOA_V
 ClientSampleId :
 MDL02

Tgt Ion:180 Resp: 9829
 Ion Ratio Lower Upper
 180 100
 182 97.0 76.0 114.0
 145 30.3 25.3 37.9

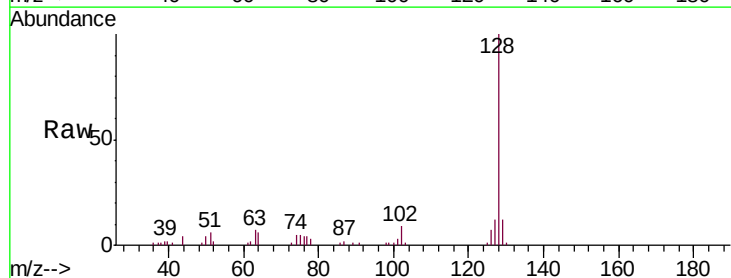


Abundance Ion 180.00 (179.70 to 180.70): V
 8000 Ion 182.00 (181.70 to 182.70): V
 Ion 145.00 (144.70 to 145.70): V

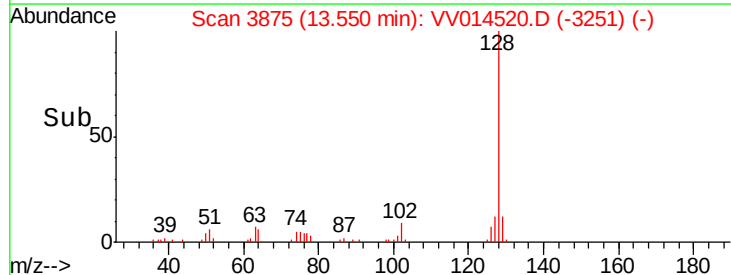
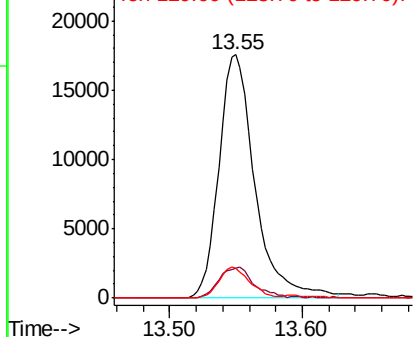


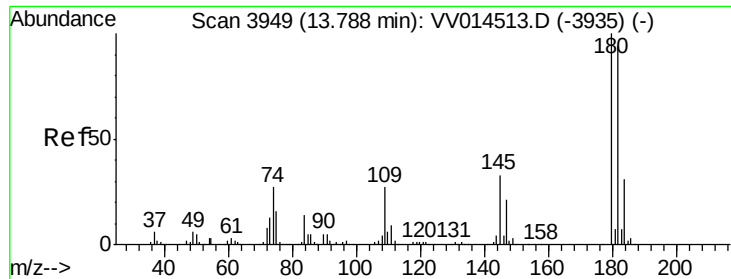
#71
 Naphthalene
 Concen: 2.537 ug/L
 RT: 13.55 min Scan# 3875
 Delta R.T. 0.01 min
 Lab File: VV014520.D
 Acq: 06 Feb 2020 15:38

Tgt Ion:128 Resp: 33177
 Ion Ratio Lower Upper
 128 100
 127 12.2 10.3 15.5
 129 11.0 8.7 13.1



Abundance Ion 128.00 (127.70 to 128.70): V
 20000 Ion 127.00 (126.70 to 127.70): V
 Ion 129.00 (128.70 to 129.70): V





#72
 1,2,3-Trichlorobenzene
 Concen: 2.466 ug/L
 RT: 13.79 min Scan# 3950
 Delta R.T. 0.00 min
 Lab File: VV014520.D
 Acq: 06 Feb 2020 15:38

Instrument :
 MSVOA_V
 ClientSampleId :
 MDL02

Tgt Ion	Resp	Lower	Upper
180	9539		
182	91.2	75.2	112.8
145	37.6	27.1	40.7

