

Data File : VV014519.D
Acq On : 06 Feb 2020 15:12
Operator : SY/MD
Sample : MDL01
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 12 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
MDL01

Quant Time: Feb 07 01:40:31 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	423842	50.00	ug/L	0.00
28) Chlorobenzene-d5	8.89	117	387378	50.00	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.29	152	194098	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.32	65	105651	45.97	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	91.94%
7) Chloroethane-d5	1.58	69	73115	46.16	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	92.32%
11) 1,1-Dichloroethene-d2	2.13	63	122806	35.18	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	70.36%
21) 2-Butanone-d5	3.92	46	154689	87.19	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	87.19%
24) Chloroform-d	4.39	84	236064	45.07	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	90.14%
26) 1,2-Dichloroethane-d4	5.07	65	148119	46.33	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	92.66%
32) Benzene-d6	5.09	84	511351	47.67	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	95.34%
36) 1,2-Dichloropropane-d6	6.11	67	156937	47.71	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	95.42%
41) Toluene-d8	7.35	98	468450	47.43	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	94.86%
43) trans-1,3-Dichloropropene-	7.66	79	79567	45.11	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	90.22%
47) 2-Hexanone-d5	8.13	63	120240	85.93	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	85.93%
56) 1,1,2,2-Tetrachloroethane-	10.25	84	194772	45.60	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	91.20%
66) 1,2-Dichlorobenzene-d4	11.67	152	176472	47.41	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	94.82%

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	1.14	85	8537	2.514 ug/L	98
3) Chloromethane	1.26	50	9049	2.632 ug/L	98
5) Vinyl chloride	1.33	62	6737	2.559 ug/L #	69
6) Bromomethane	1.53	94	2963	2.447 ug/L	95
8) Chloroethane	1.60	64	3332	2.547 ug/L	93
9) Trichlorofluoromethane	1.77	101	8907	2.511 ug/L	98
10) 1,1,2-Trichloro-1,2,2-trif	2.14	101	5611	3.294 ug/L #	81
12) 1,1-Dichloroethene	2.14	96	4663	2.862 ug/L #	1
13) Acetone	2.18	43	10051	6.766 ug/L	97
14) Carbon disulfide	2.32	76	21470	2.714 ug/L	98
15) Methyl Acetate	2.46	43	6940	2.430 ug/L	99
16) Methylene chloride	2.54	84	9118	2.947 ug/L	97
17) trans-1,2-Dichloroethene	2.79	96	7635	2.660 ug/L	91
18) Methyl tert-butyl Ether	2.80	73	22444	2.469 ug/L	98
19) 1,1-Dichloroethane	3.23	63	12976	2.528 ug/L	99
20) cis-1,2-Dichloroethene	3.96	96	8182	2.533 ug/L	95
22) 2-Butanone	4.02	43	8000	3.641 ug/L	86

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	4.30	128	3932	2.571	ug/L	86
25) Chloroform	4.42	83	17454	3.345	ug/L	93
27) 1,2-Dichloroethane	5.18	62	9831	2.528	ug/L	100
29) Cyclohexane	4.72	56	12342	2.591	ug/L	99
30) 1,1,1-Trichloroethane	4.66	97	11504	2.602	ug/L #	86
31) Carbon tetrachloride	4.87	117	9538	2.445	ug/L	99
33) Benzene	5.14	78	29201	2.564	ug/L	100
34) Trichloroethene	5.96	95	7806	2.586	ug/L	97
35) Methylcyclohexane	6.18	83	13497	2.736	ug/L	99
37) 1,2-Dichloropropane	6.22	63	7058	2.433	ug/L #	89
38) Bromodichloromethane	6.55	83	9260	2.379	ug/L	96
39) cis-1,3-Dichloropropene	7.07	75	11882	2.455	ug/L	94
40) 4-Methyl-2-pentanone	7.27	43	16811	4.485	ug/L	98
42) Toluene	7.43	91	31249	2.559	ug/L	95
44) trans-1,3-Dichloropropene	7.69	75	11184	2.578	ug/L	97
45) 1,1,2-Trichloroethane	7.88	97	6766	2.431	ug/L	96
46) Tetrachloroethene	8.01	164	5787	2.513	ug/L	96
48) 2-Hexanone	8.18	43	12754	4.420	ug/L	97
49) Dibromochloromethane	8.28	129	7558	2.405	ug/L	95
50) 1,2-Dibromoethane	8.39	107	7268	2.411	ug/L	98
51) Chlorobenzene	8.92	112	19918	2.497	ug/L	95
52) Ethylbenzene	9.05	91	34422	2.514	ug/L	97
53) m,p-Xylene	9.18	106	12758	2.419	ug/L	94
54) o-Xylene	9.58	106	12365	2.449	ug/L	91
55) Styrene	9.60	104	20915	2.424	ug/L	98
57) 1,1,2,2-Tetrachloroethane	10.28	83	11673	2.676	ug/L #	92
59) Bromoform	9.77	173	4641	2.144	ug/L #	92
60) Isopropylbenzene	9.97	105	33298	2.537	ug/L	97
61) 1,2,3-Trichloropropane	10.31	75	8685	2.527	ug/L	97
62) 1,3,5-Trimethylbenzene	10.58	105	27898	2.483	ug/L	99
63) 1,2,4-Trimethylbenzene	10.95	105	26607	2.402	ug/L	99
64) 1,3-Dichlorobenzene	11.22	146	15785	2.550	ug/L	98
65) 1,4-Dichlorobenzene	11.31	146	17332	2.719	ug/L	96
67) 1,2-Dichlorobenzene	11.68	146	16155	2.691	ug/L	98
68) 1,2-Dibromo-3-chloropropan	12.48	75	2056	2.136	ug/L	93
69) 1,3,5-Trichlorobenzene	12.69	180	11031	2.529	ug/L	97
70) 1,2,4-trichlorobenzene	13.31	180	9569	2.389	ug/L	97
71) Naphthalene	13.55	128	31605	2.403	ug/L	97
72) 1,2,3-Trichlorobenzene	13.79	180	9030	2.321	ug/L	99

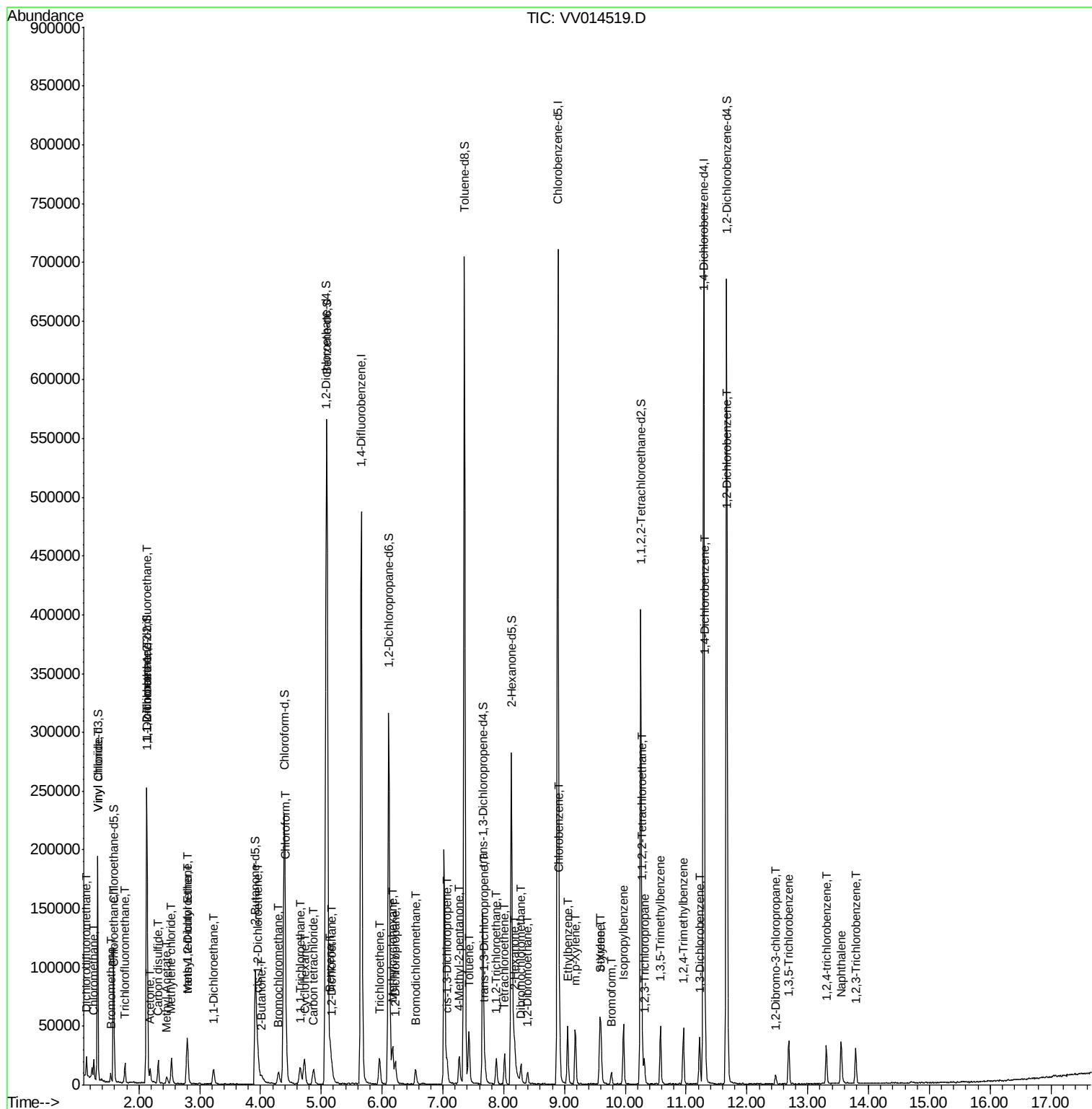
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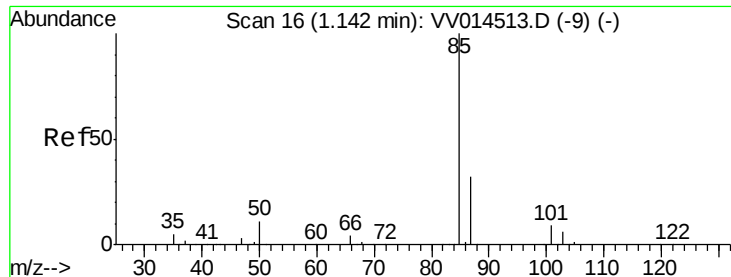
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```
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#2

Dichlorodifluoromethane

Concen: 2.514 ug/L

RT: 1.14 min Scan# 15

Delta R.T. -0.00 min

Lab File: VV014519.D

Acq: 06 Feb 2020 15:12

Instrument :

MSVOA_V

ClientSampleId :

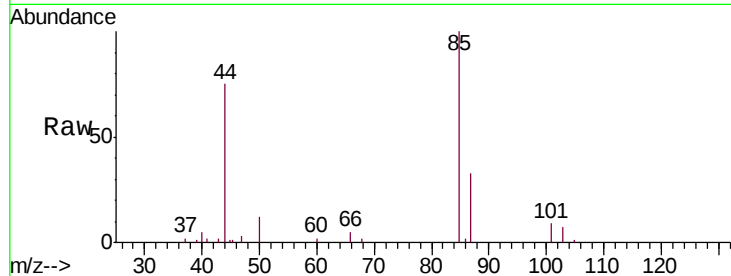
MDL01

Tgt Ion: 85 Resp: 8537

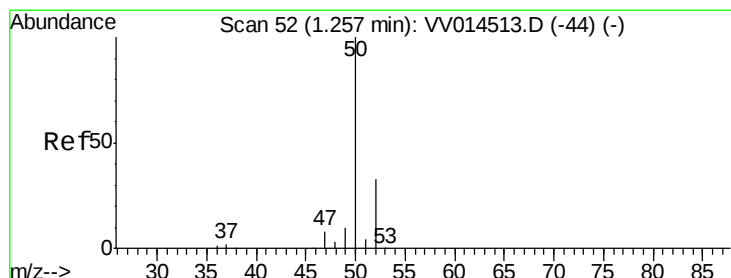
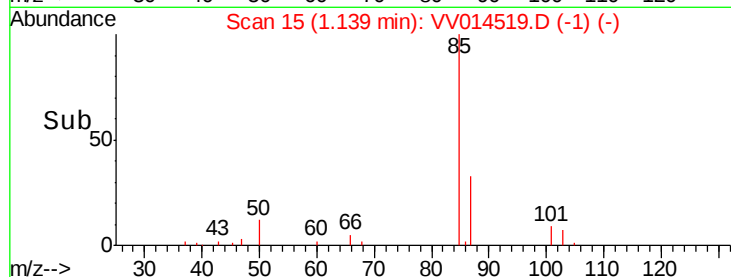
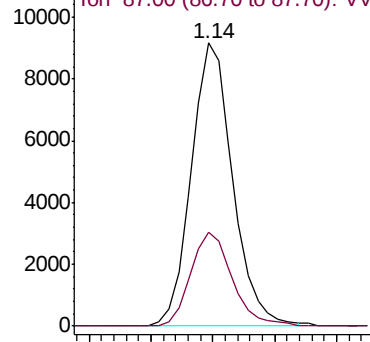
Ion Ratio Lower Upper

85 100

87 33.1 25.7 38.5



Abundance Ion 85.00 (84.70 to 85.70): VV014519.D (-1) (-)



#3

Chloromethane

Concen: 2.632 ug/L

RT: 1.26 min Scan# 52

Delta R.T. 0.00 min

Lab File: VV014519.D

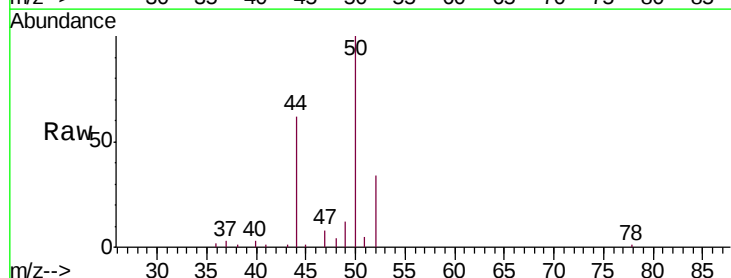
Acq: 06 Feb 2020 15:12

Tgt Ion: 50 Resp: 9049

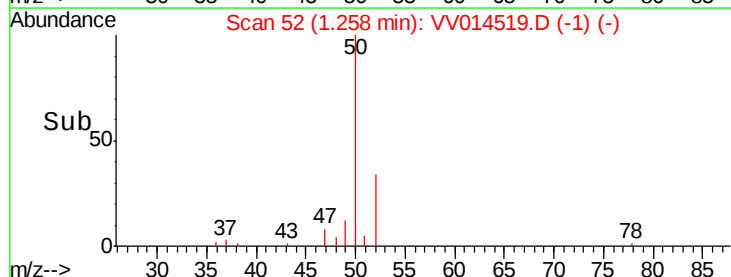
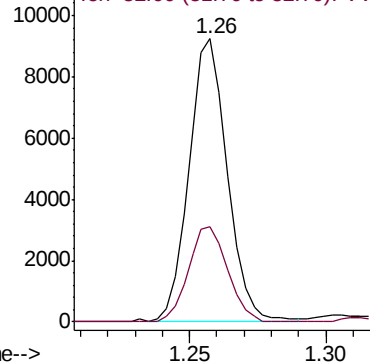
Ion Ratio Lower Upper

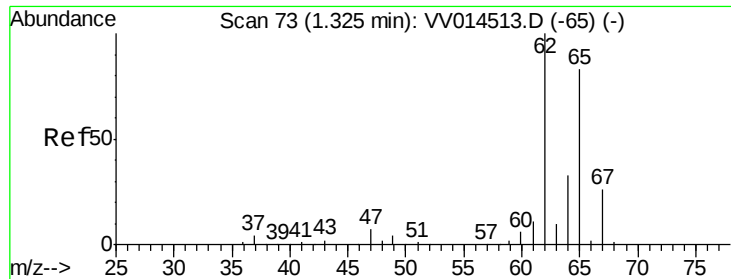
50 100

52 33.8 22.9 42.5



Abundance Ion 50.00 (49.70 to 50.70): VV014519.D (-1) (-)





#5

Vinyl chloride

Concen: 2.559 ug/L

RT: 1.33 min Scan# 73

Delta R.T. 0.00 min

Lab File: VV014519.D

Acq: 06 Feb 2020 15:12

Instrument :

MSVOA_V

ClientSampleId :

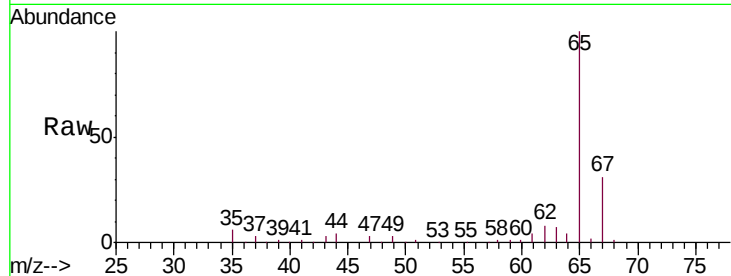
MDL01

Tgt Ion: 62 Resp: 6737

Ion Ratio Lower Upper

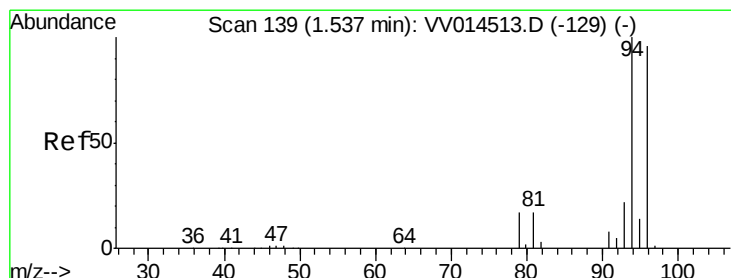
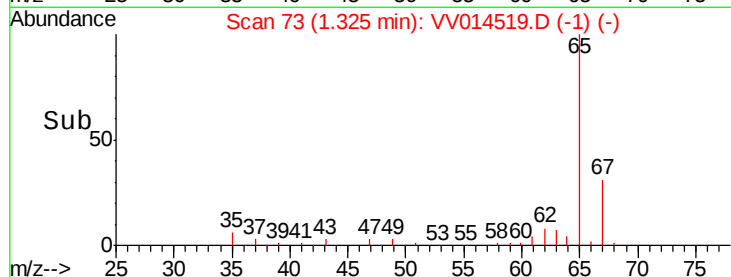
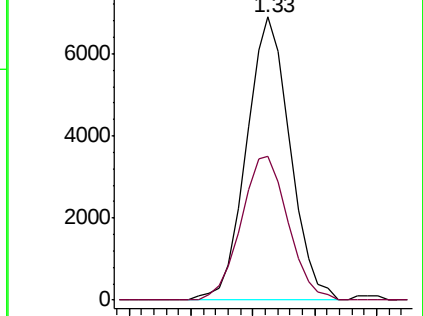
62 100

64 50.8 23.1 42.9#



Abundance Ion 62.00 (61.70 to 62.70): VV0

Ion 64.00 (63.70 to 64.70): VV0



#6

Bromomethane

Concen: 2.447 ug/L

RT: 1.53 min Scan# 138

Delta R.T. -0.00 min

Lab File: VV014519.D

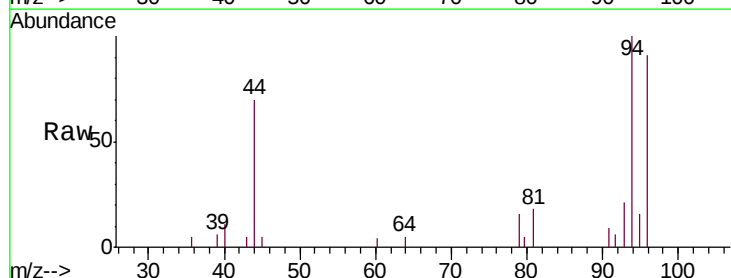
Acq: 06 Feb 2020 15:12

Tgt Ion: 94 Resp: 2963

Ion Ratio Lower Upper

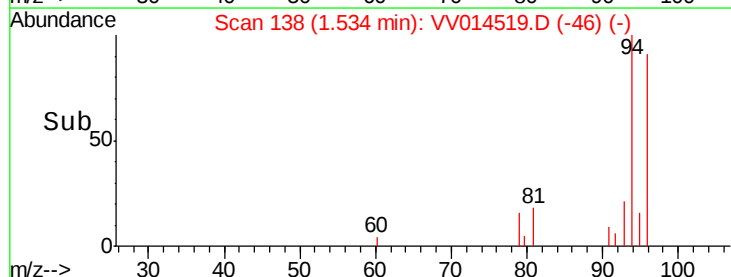
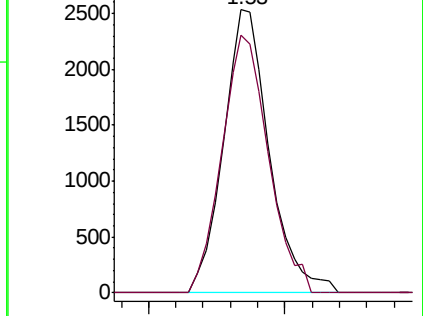
94 100

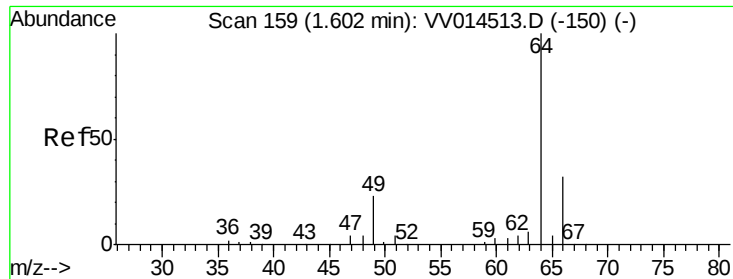
96 90.9 67.3 124.9



Abundance Ion 94.00 (93.70 to 94.70): VV0

Ion 96.00 (95.70 to 96.70): VV0





#8

Chloroethane

Concen: 2.547 ug/L

RT: 1.60 min Scan# 159

Delta R.T. 0.00 min

Lab File: VV014519.D

Acq: 06 Feb 2020 15:12

Instrument :

MSVOA_V

ClientSampleId :

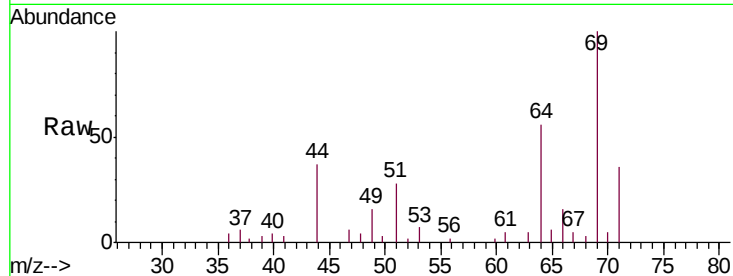
MDL01

Tgt Ion: 64 Resp: 3332

Ion Ratio Lower Upper

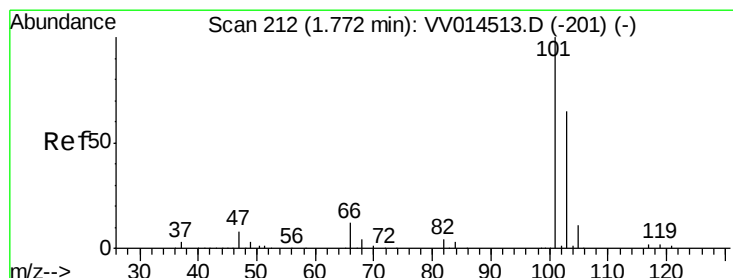
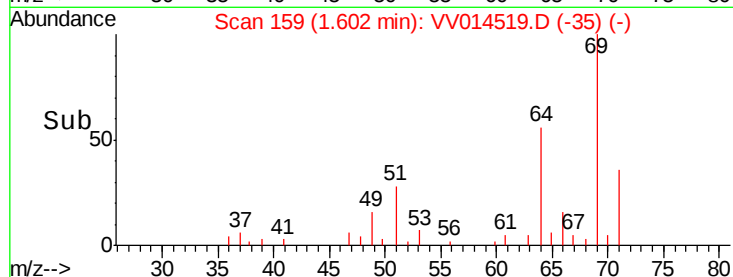
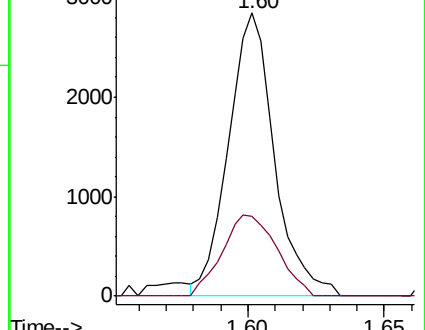
64 100

66 28.4 22.4 41.6



Abundance Ion 64.00 (63.70 to 64.70): VV014513.D (-150) (-)

Ion 66.00 (65.70 to 66.70): VV014513.D (-150) (-)



#9

Trichlorofluoromethane

Concen: 2.511 ug/L

RT: 1.77 min Scan# 212

Delta R.T. 0.00 min

Lab File: VV014519.D

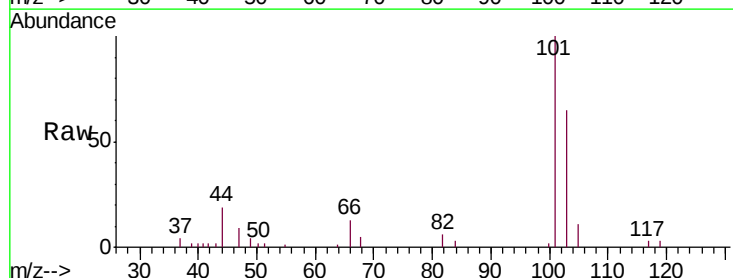
Acq: 06 Feb 2020 15:12

Tgt Ion: 101 Resp: 8907

Ion Ratio Lower Upper

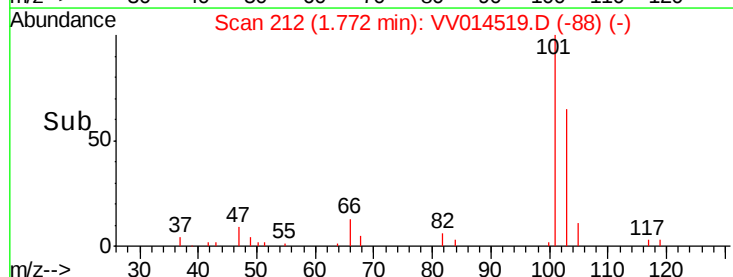
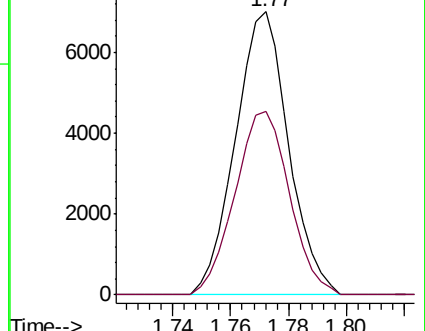
101 100

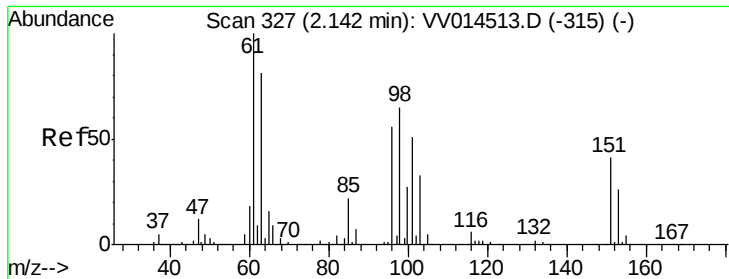
103 66.6 51.8 77.8



Abundance Ion 101.00 (100.70 to 101.70): VV014513.D (-201) (-)

Ion 103.00 (102.70 to 103.70): VV014513.D (-201) (-)





#10

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

Concen: 3.294 ug/L

RT: 2.14 min Scan# 326

Delta R.T. -0.00 min

Lab File: VV014519.D

Acq: 06 Feb 2020 15:12

Instrument :

MSVOA_V

ClientSampleId :

MDL01

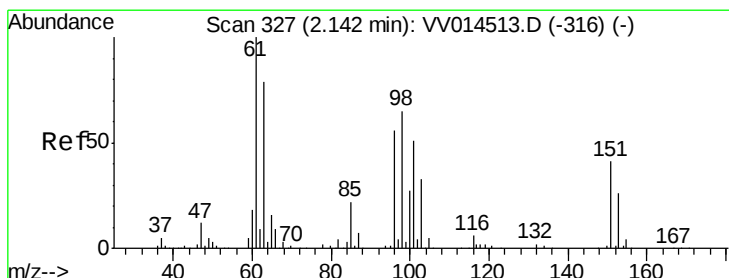
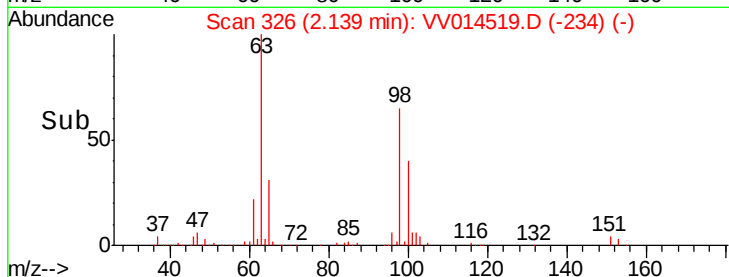
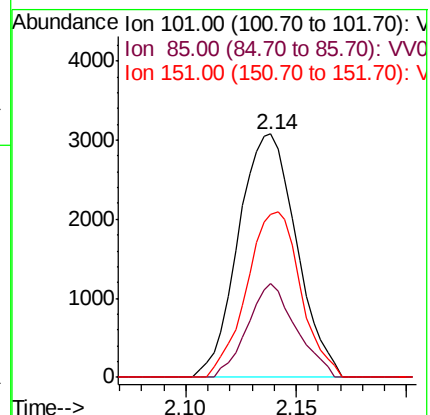
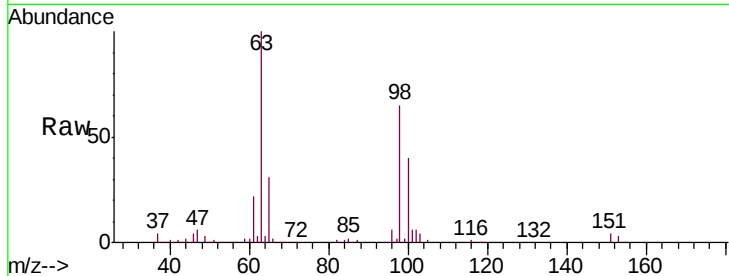
Tgt Ion: 101 Resp: 5611

Ion Ratio Lower Upper

101 100

85 32.2 35.0 52.6#

151 63.1 64.4 96.6#



#12

1,1-Dichloroethene

Concen: 2.862 ug/L

RT: 2.14 min Scan# 327

Delta R.T. 0.00 min

Lab File: VV014519.D

Acq: 06 Feb 2020 15:12

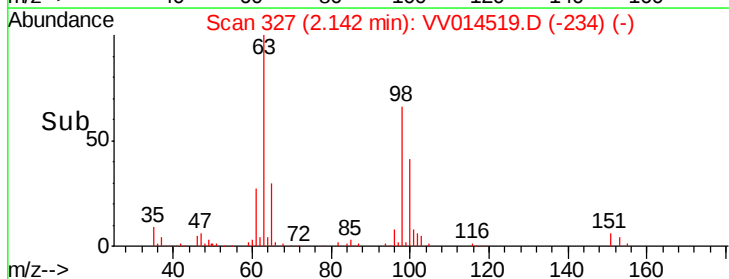
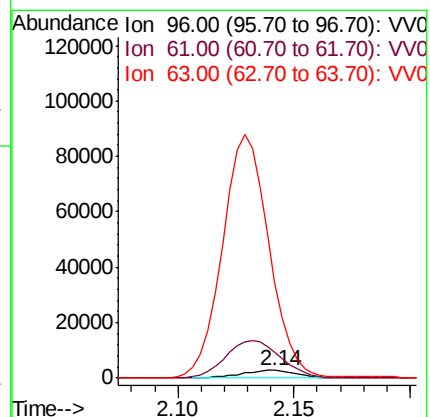
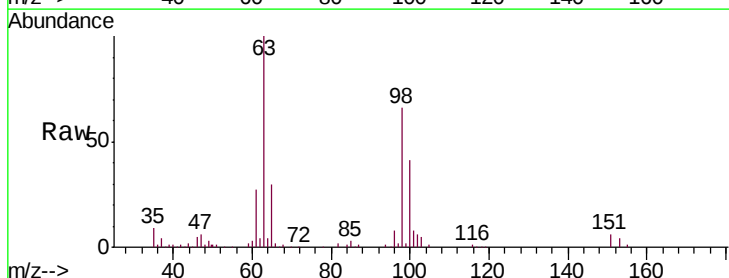
Tgt Ion: 96 Resp: 4663

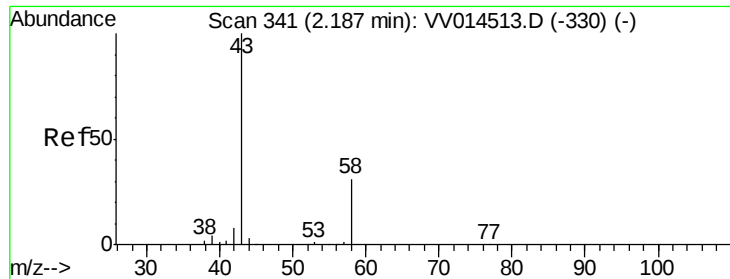
Ion Ratio Lower Upper

96 100

61 319.0 125.0 232.2#

63 1197.5 101.6 188.6#





#13

Acetone

Concen: 6.766 ug/L

RT: 2.18 min Scan# 340

Delta R.T. -0.00 min

Lab File: VV014519.D

Acq: 06 Feb 2020 15:12

Instrument :

MSVOA_V

ClientSampled :

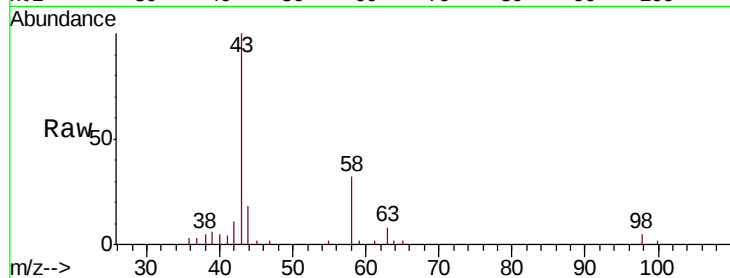
MDL01

Tgt Ion: 43 Resp: 10051

Ion Ratio Lower Upper

43 100

58 32.6 0.0 61.8



Abundance Ion 43.00 (42.70 to 43.70): VV014519.D (-248) (-)

Ion 58.00 (57.70 to 58.70): VV014519.D (-248) (-)

2.18

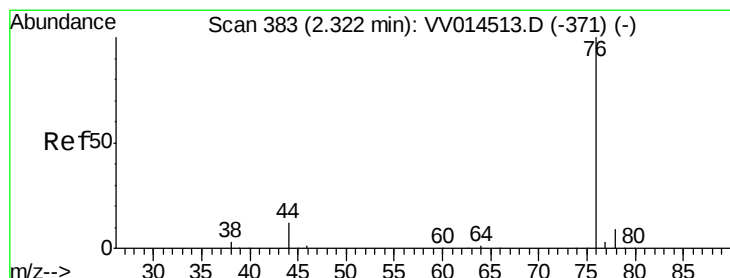
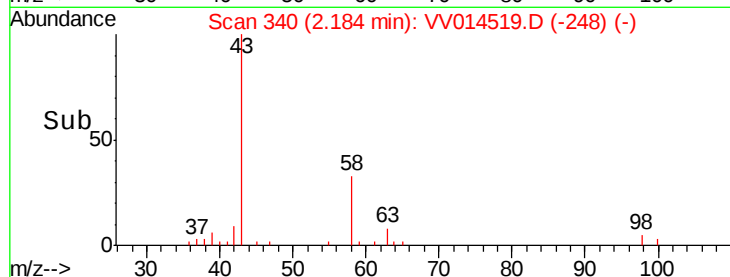
6000

4000

2000

0

Time--> 2.10 2.15 2.20 2.25



#14

Carbon disulfide

Concen: 2.714 ug/L

RT: 2.32 min Scan# 382

Delta R.T. -0.00 min

Lab File: VV014519.D

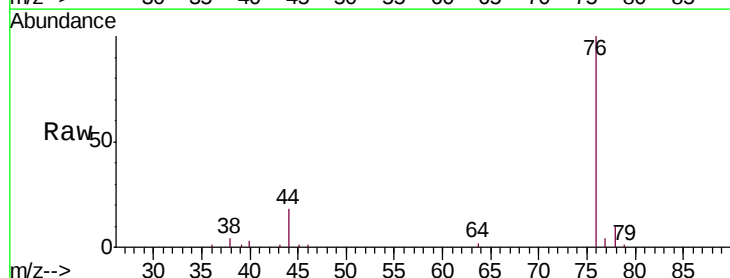
Acq: 06 Feb 2020 15:12

Tgt Ion: 76 Resp: 21470

Ion Ratio Lower Upper

76 100

78 9.9 7.4 11.2



Abundance Ion 76.00 (75.70 to 76.70): VV014519.D (-290) (-)

Ion 78.00 (77.70 to 78.70): VV014519.D (-290) (-)

2.32

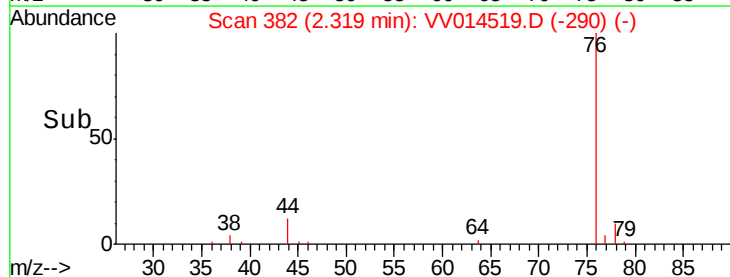
15000

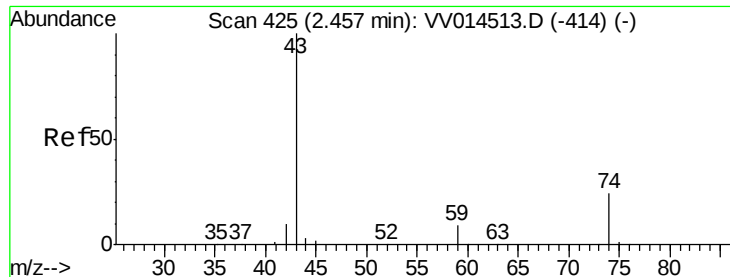
10000

5000

0

Time--> 2.25 2.30 2.35





#15

Methyl Acetate

Concen: 2.430 ug/L

RT: 2.46 min Scan# 425

Delta R.T. 0.00 min

Lab File: VV014519.D

Acq: 06 Feb 2020 15:12

Instrument :

MSVOA_V

ClientSampleId :

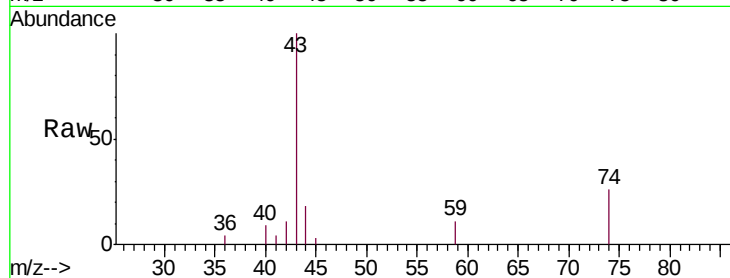
MDL01

Tgt Ion: 43 Resp: 6940

Ion Ratio Lower Upper

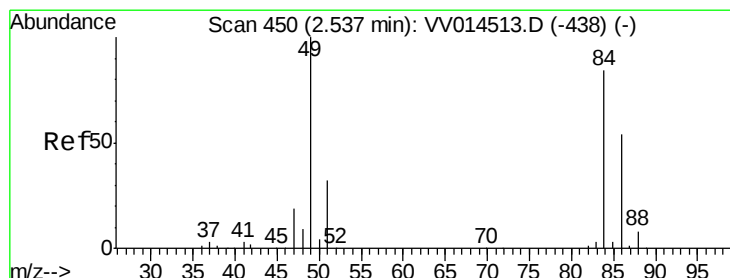
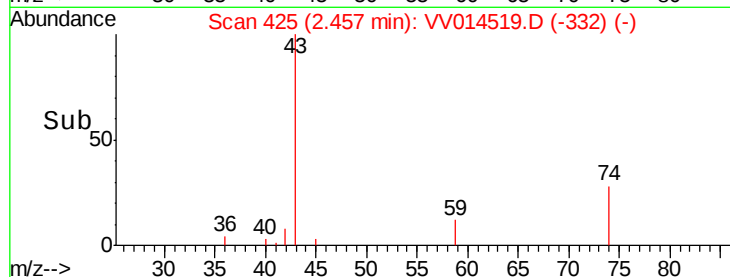
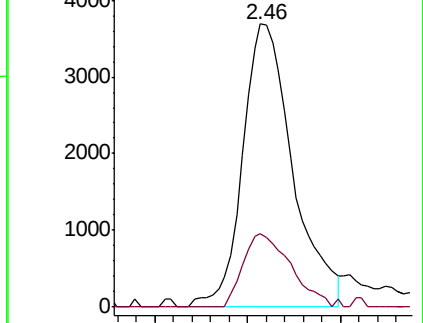
43 100

74 24.5 19.4 29.0



Abundance Ion 43.00 (42.70 to 43.70): VV014519.D (-332) (-)

Ion 74.00 (73.70 to 74.70): VV014519.D (-332) (-)



#16

Methylene chloride

Concen: 2.947 ug/L

RT: 2.54 min Scan# 450

Delta R.T. 0.00 min

Lab File: VV014519.D

Acq: 06 Feb 2020 15:12

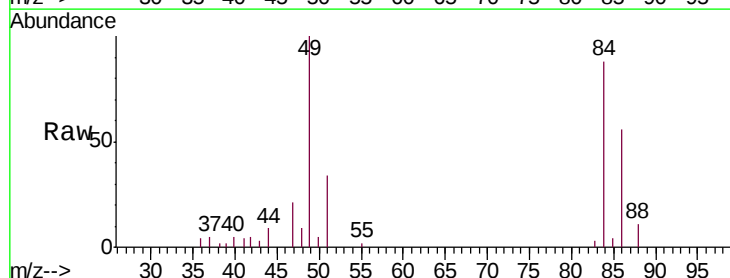
Tgt Ion: 84 Resp: 9118

Ion Ratio Lower Upper

84 100

86 63.4 44.6 82.8

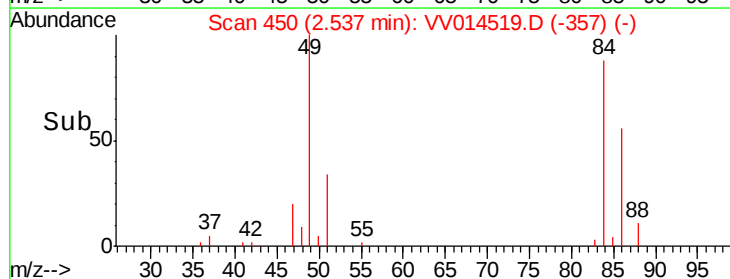
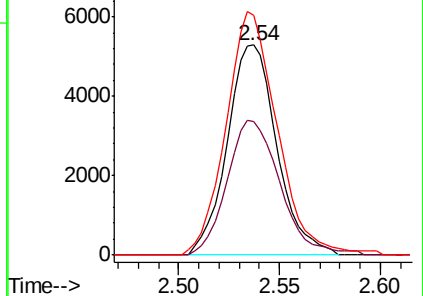
49 114.0 83.2 154.4

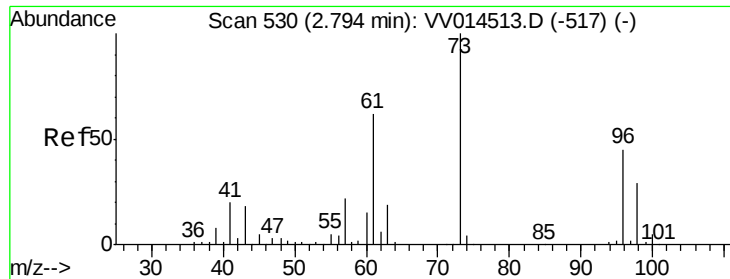


Abundance Ion 84.00 (83.70 to 84.70): VV014519.D (-357) (-)

Ion 86.00 (85.70 to 86.70): VV014519.D (-357) (-)

Ion 49.00 (48.70 to 49.70): VV014519.D (-357) (-)





#17

trans-1,2-Dichloroethene

Concen: 2.660 ug/L

RT: 2.79 min Scan# 530

Delta R.T. 0.00 min

Lab File: VV014519.D

Acq: 06 Feb 2020 15:12

Instrument :

MSVOA_V

ClientSampleId :

MDL01

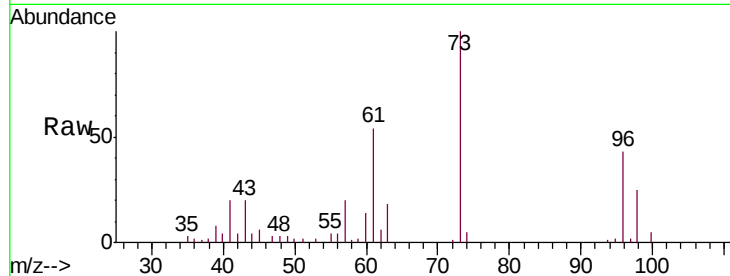
Tgt Ion: 96 Resp: 7635

Ion Ratio Lower Upper

96 100

61 126.2 95.8 178.0

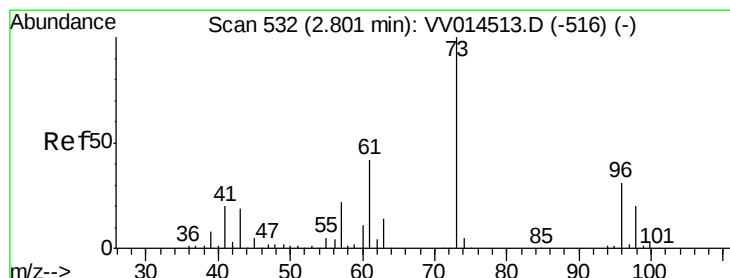
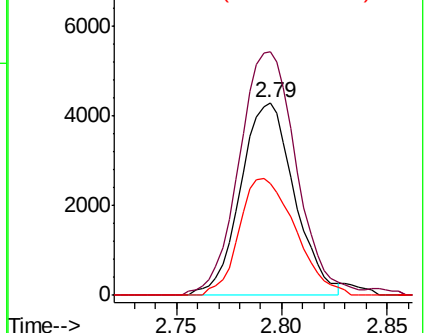
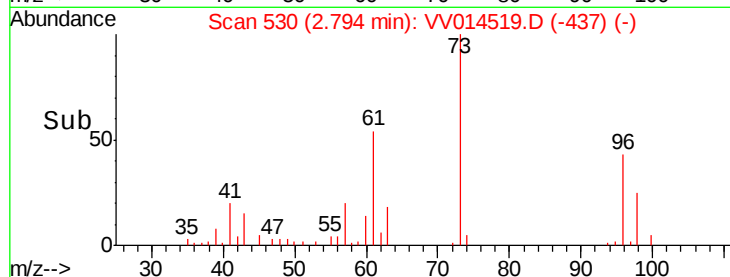
98 57.8 45.1 83.7



Abundance Ion 96.00 (95.70 to 96.70): VV014519.D (-437) (-)

Ion 61.00 (60.70 to 61.70): VV014519.D (-437) (-)

Ion 98.00 (97.70 to 98.70): VV014519.D (-437) (-)



#18

Methyl tert-butyl Ether

Concen: 2.469 ug/L

RT: 2.80 min Scan# 532

Delta R.T. 0.00 min

Lab File: VV014519.D

Acq: 06 Feb 2020 15:12

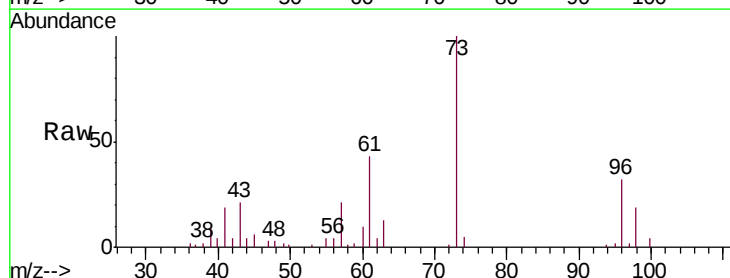
Tgt Ion: 73 Resp: 22444

Ion Ratio Lower Upper

73 100

43 20.5 14.9 22.3

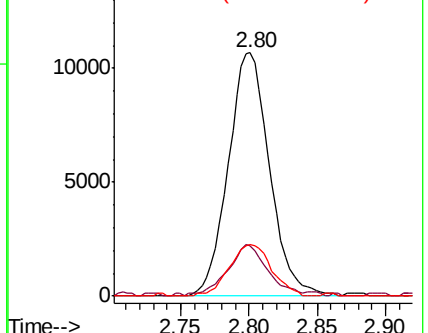
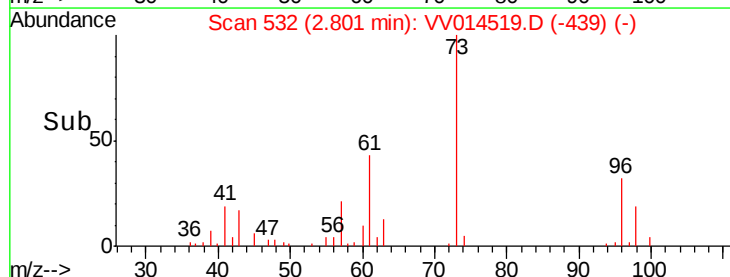
57 21.7 17.5 26.3

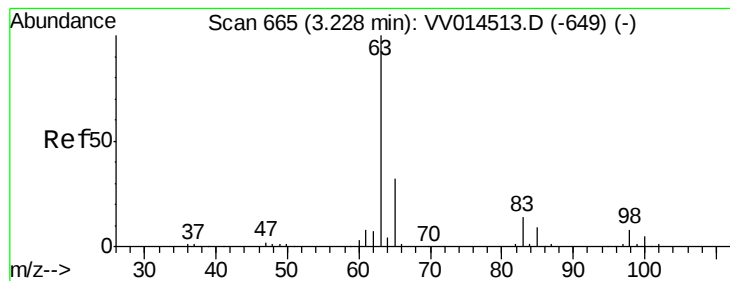


Abundance Ion 73.00 (72.70 to 73.70): VV014519.D (-439) (-)

Ion 43.00 (42.70 to 43.70): VV014519.D (-439) (-)

Ion 57.00 (56.70 to 57.70): VV014519.D (-439) (-)





#19

1,1-Dichloroethane

Concen: 2.528 ug/L

RT: 3.23 min Scan# 664

Delta R.T. -0.00 min

Lab File: VV014519.D

Acq: 06 Feb 2020 15:12

Instrument :

MSVOA_V

ClientSampleId :

MDL01

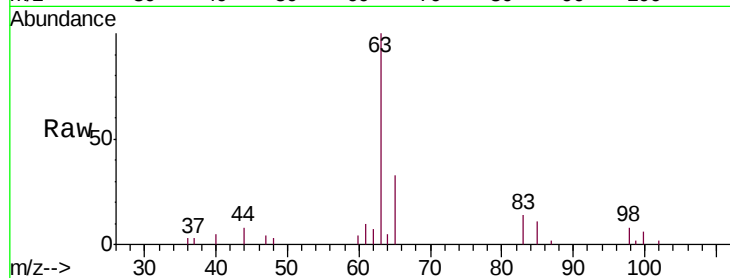
Tgt Ion: 63 Resp: 12976

Ion Ratio Lower Upper

63 100

65 33.0 22.5 41.7

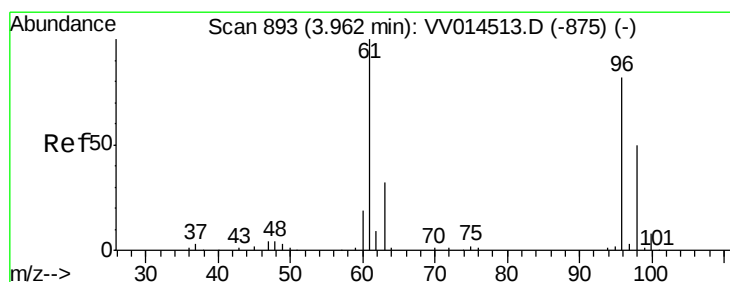
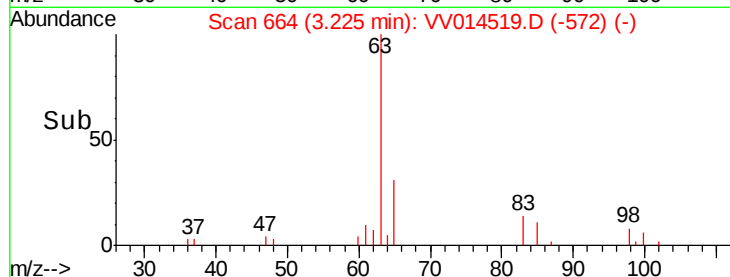
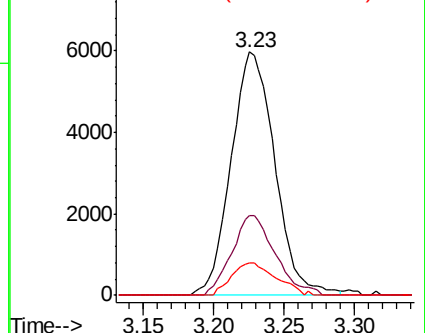
83 13.6 9.7 18.1



Abundance Ion 63.00 (62.70 to 63.70): VV0

Ion 65.00 (64.70 to 65.70): VV0

Ion 83.00 (82.70 to 83.70): VV0



#20

cis-1,2-Dichloroethene

Concen: 2.533 ug/L

RT: 3.96 min Scan# 892

Delta R.T. -0.00 min

Lab File: VV014519.D

Acq: 06 Feb 2020 15:12

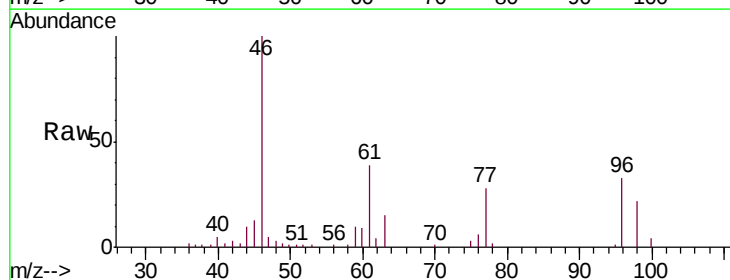
Tgt Ion: 96 Resp: 8182

Ion Ratio Lower Upper

96 100

61 116.6 85.2 158.2

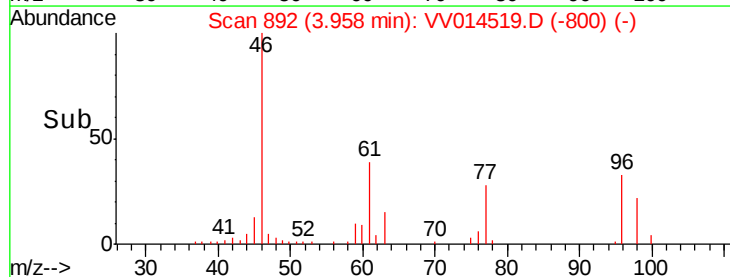
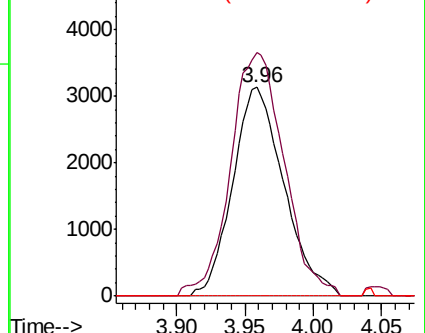
68 0.0 0.0 0.0

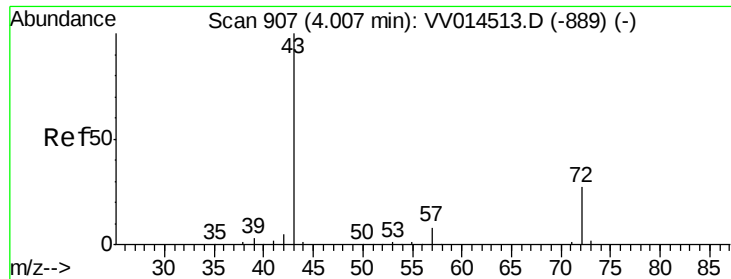


Abundance Ion 96.00 (95.70 to 96.70): VV0

Ion 61.00 (60.70 to 61.70): VV0

Ion 68.00 (67.70 to 68.70): VV0





#22

2-Butanone

Concen: 3.641 ug/L

RT: 4.02 min Scan# 912

Delta R.T. 0.02 min

Lab File: VV014519.D

Acq: 06 Feb 2020 15:12

Instrument :

MSVOA_V

ClientSampled :

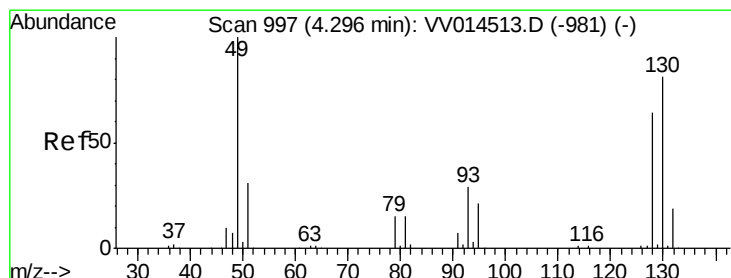
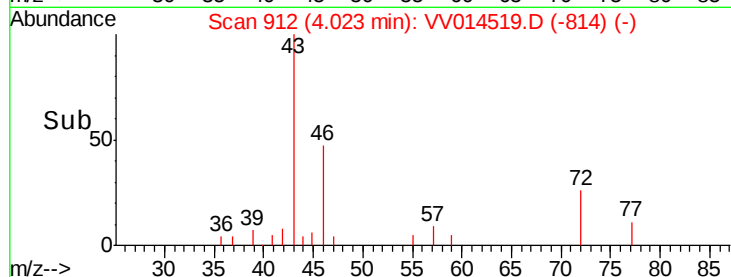
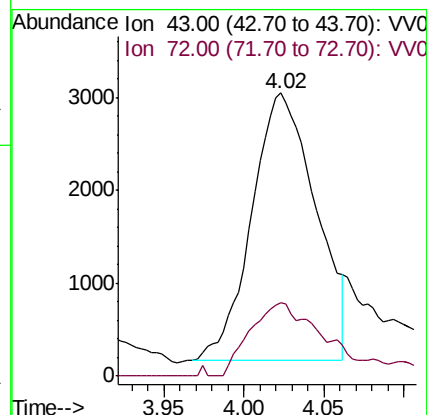
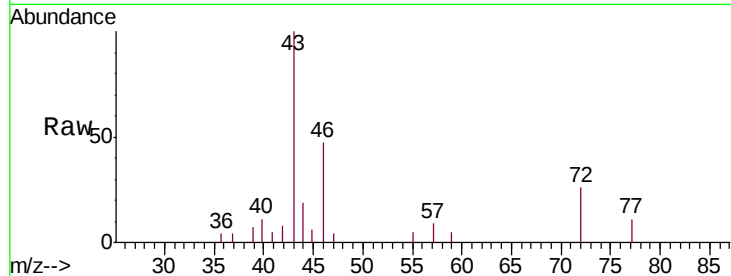
MDL01

Tgt Ion: 43 Resp: 8000

Ion Ratio Lower Upper

43 100

72 18.5 12.7 38.1



#23

Bromochloromethane

Concen: 2.571 ug/L

RT: 4.30 min Scan# 998

Delta R.T. 0.00 min

Lab File: VV014519.D

Acq: 06 Feb 2020 15:12

Tgt Ion: 128 Resp: 3932

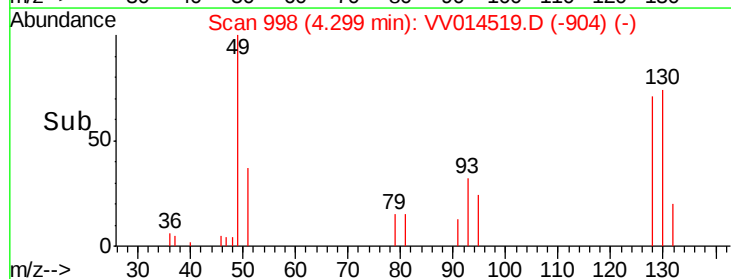
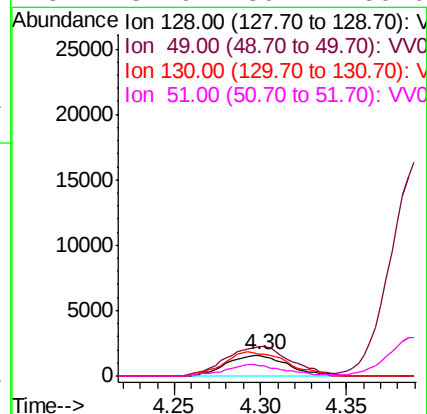
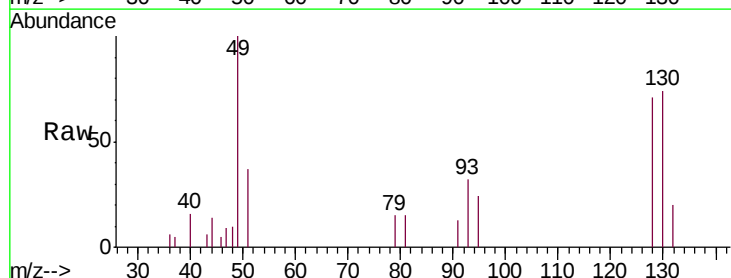
Ion Ratio Lower Upper

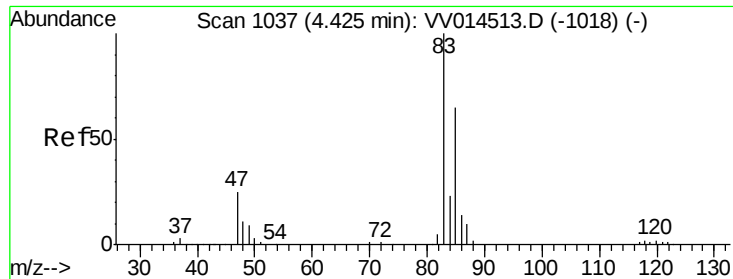
128 100

49 141.4 110.1 204.5

130 104.7 88.5 164.4

51 51.9 39.4 59.0

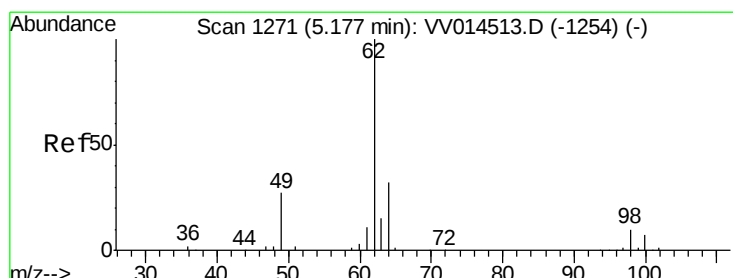
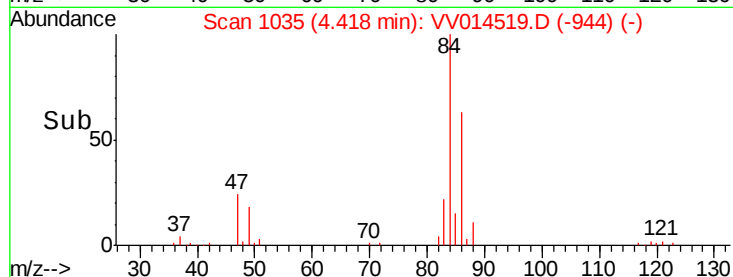
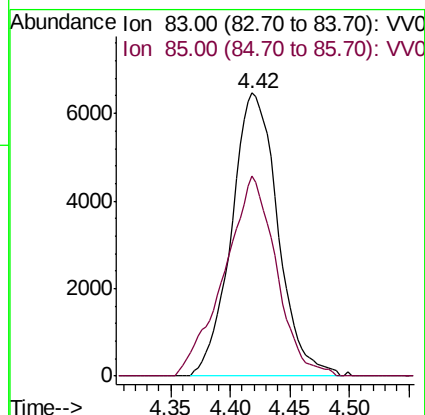
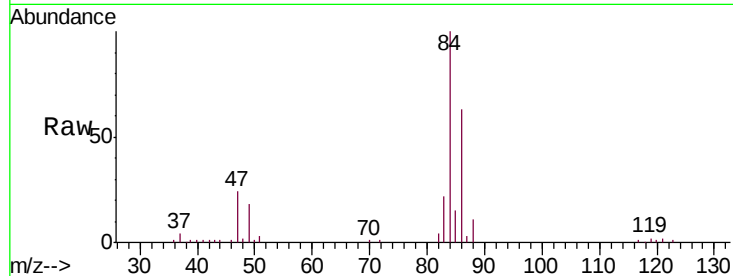




#25
Chloroform
Concen: 3.345 ug/L
RT: 4.42 min Scan# 1035
Delta R.T. -0.01 min
Lab File: VV014519.D
Acq: 06 Feb 2020 15:12

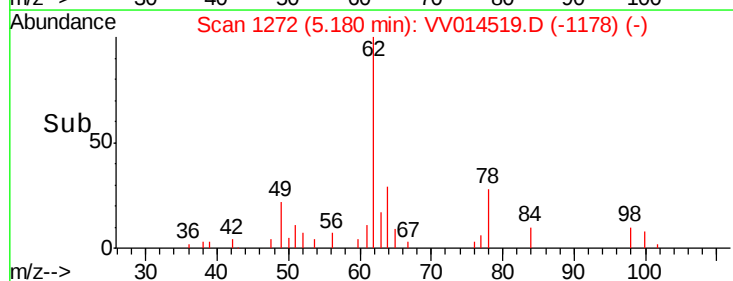
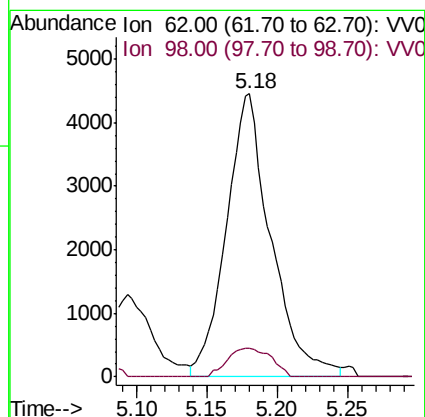
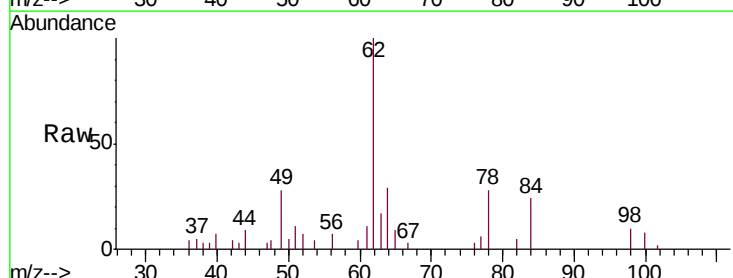
Instrument :
MSVOA_V
ClientSampleId :
MDL01

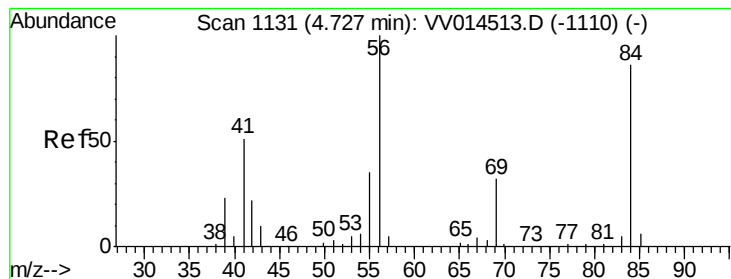
Tgt Ion: 83 Resp: 17454
Ion Ratio Lower Upper
83 100
85 70.6 45.8 85.0



#27
1,2-Dichloroethane
Concen: 2.528 ug/L
RT: 5.18 min Scan# 1272
Delta R.T. 0.00 min
Lab File: VV014519.D
Acq: 06 Feb 2020 15:12

Tgt Ion: 62 Resp: 9831
Ion Ratio Lower Upper
62 100
98 10.3 8.2 12.4





#29

Cyclohexane

Concen: 2.591 ug/L

RT: 4.72 min Scan# 1130

Delta R.T. -0.00 min

Lab File: VV014519.D

Acq: 06 Feb 2020 15:12

Instrument :

MSVOA_V

ClientSampleId :

MDL01

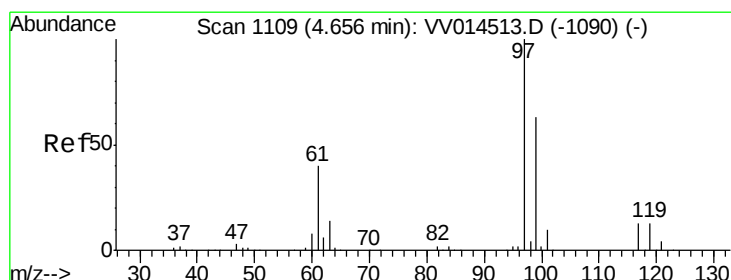
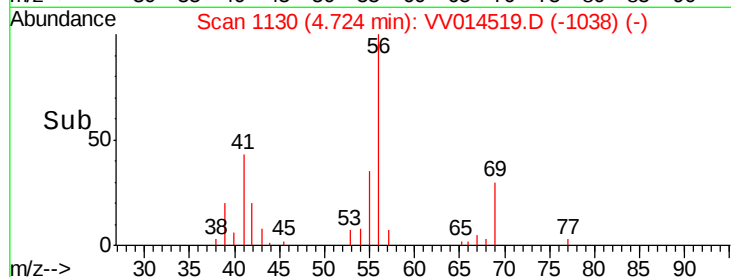
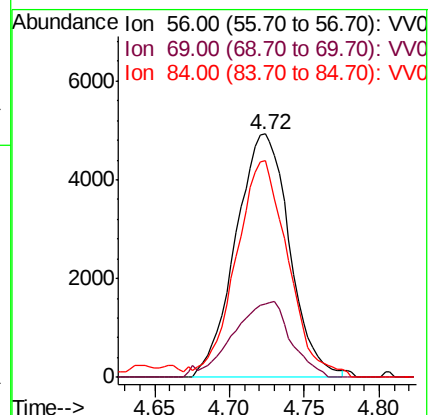
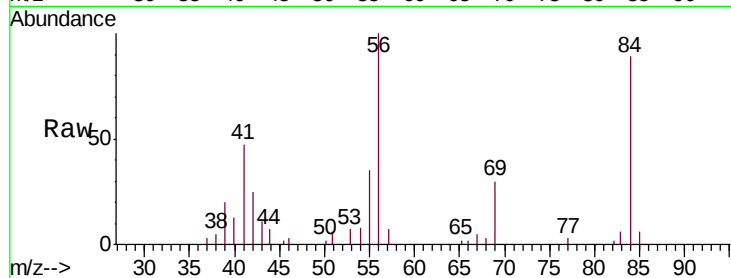
Tgt Ion: 56 Resp: 12342

Ion Ratio Lower Upper

56 100

69 32.5 25.2 37.8

84 86.0 69.8 104.8



#30

1,1,1-Trichloroethane

Concen: 2.602 ug/L

RT: 4.66 min Scan# 1109

Delta R.T. 0.00 min

Lab File: VV014519.D

Acq: 06 Feb 2020 15:12

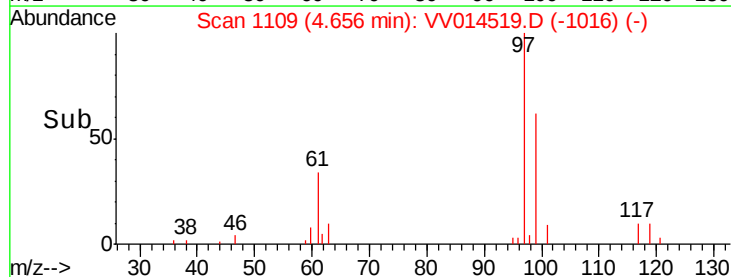
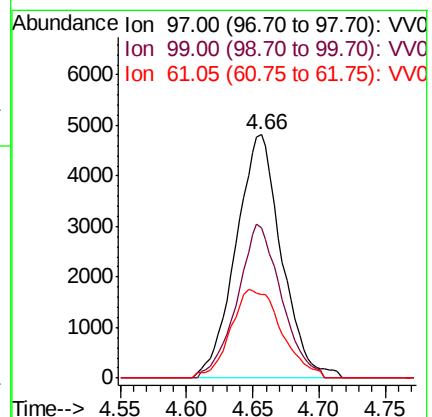
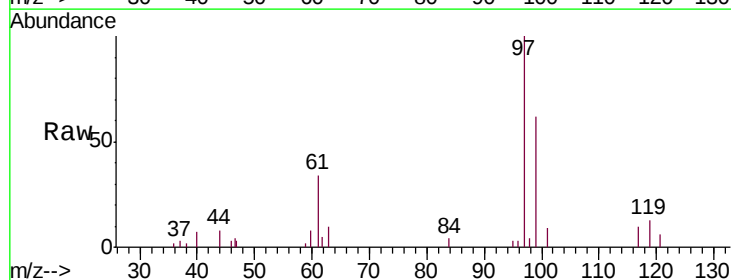
Tgt Ion: 97 Resp: 11504

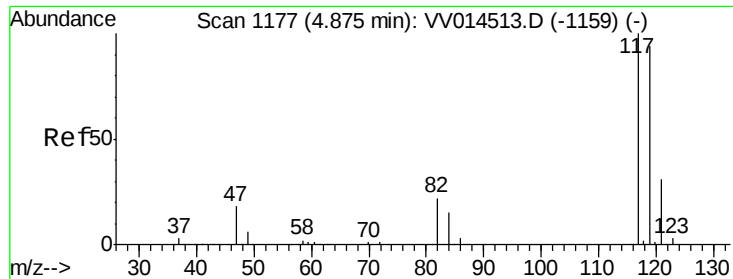
Ion Ratio Lower Upper

97 100

99 61.1 50.6 76.0

61 21.7 33.0 49.4#





#31

Carbon tetrachloride

Concen: 2.445 ug/L

RT: 4.87 min Scan# 1176

Delta R.T. -0.00 min

Lab File: VV014519.D

Acq: 06 Feb 2020 15:12

Instrument :

MSVOA_V

ClientSampleId :

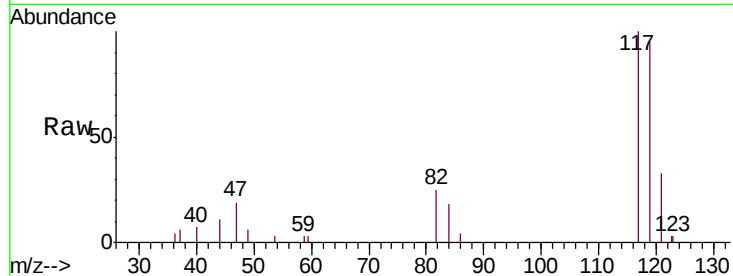
MDL01

Tgt Ion:117 Resp: 9538

Ion Ratio Lower Upper

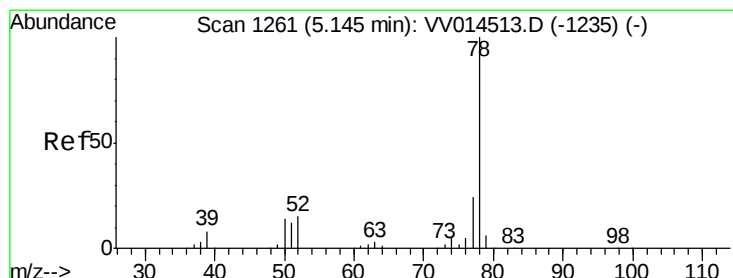
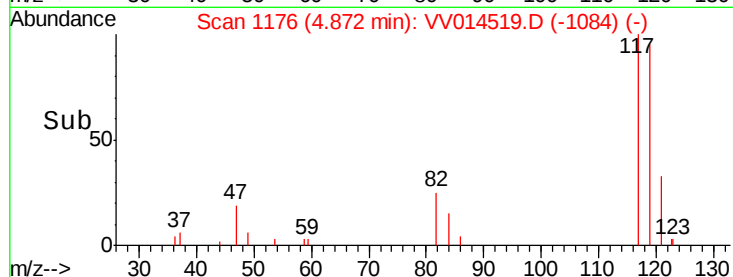
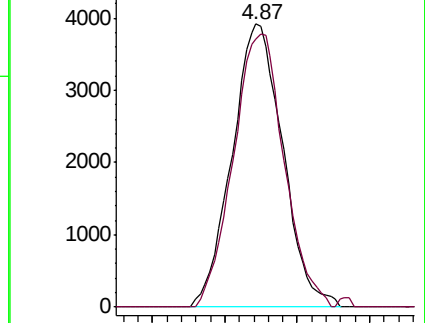
117 100

119 96.6 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: 2.564 ug/L

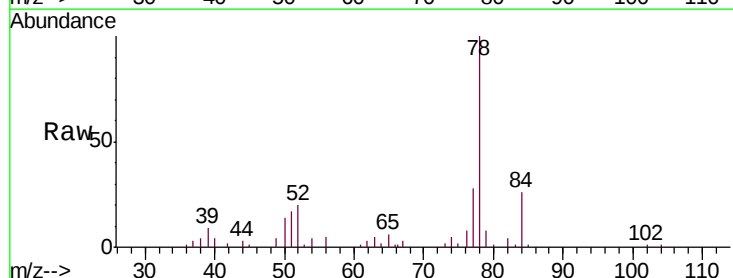
RT: 5.14 min Scan# 1261

Delta R.T. 0.00 min

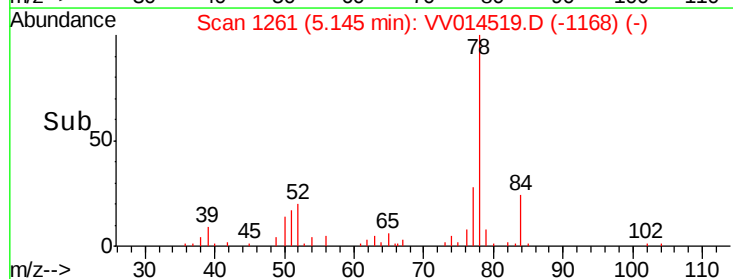
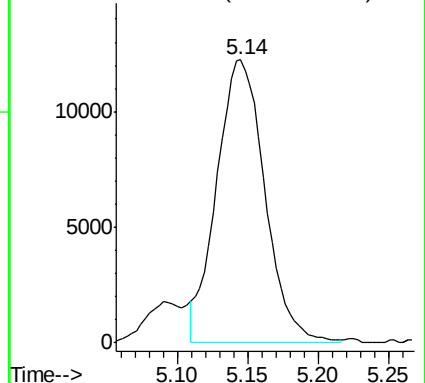
Lab File: VV014519.D

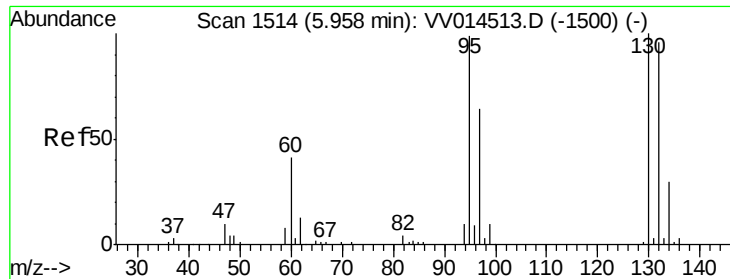
Acq: 06 Feb 2020 15:12

Tgt Ion: 78 Resp: 29201



Abundance Ion 78.00 (77.70 to 78.70): VV0





#34

Trichloroethene

Concen: 2.586 ug/L

RT: 5.96 min Scan# 1513

Delta R.T. -0.00 min

Lab File: VV014519.D

Acq: 06 Feb 2020 15:12

Instrument :

MSVOA_V

ClientSampleId :

MDL01

Tgt Ion: 95 Resp: 7806

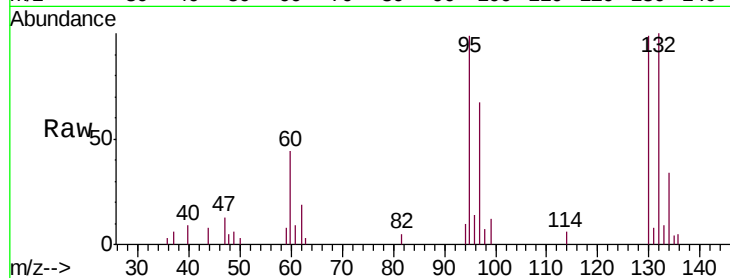
Ion Ratio Lower Upper

95 100

97 67.8 45.1 83.7

132 101.3 67.7 125.7

130 100.8 70.5 130.9



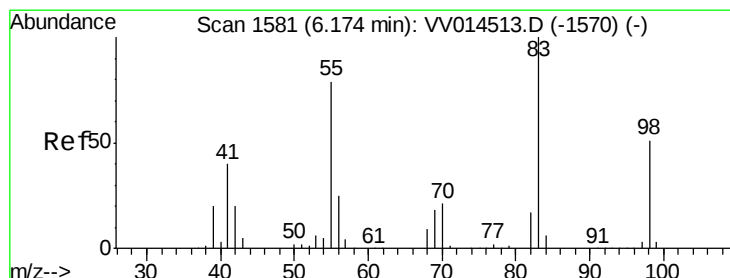
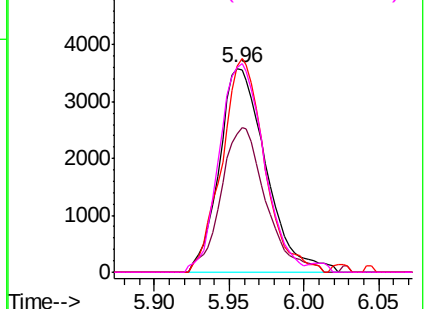
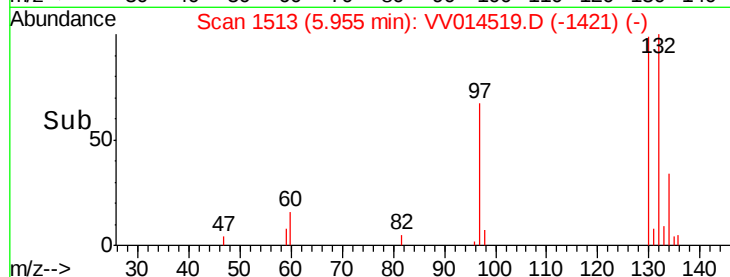
Abundance

Ion 95.00 (94.70 to 95.70): VV0

Ion 97.00 (96.70 to 97.70): VV0

Ion 132.00 (131.70 to 132.70): VV0

Ion 130.00 (129.70 to 130.70): VV0



#35

Methylcyclohexane

Concen: 2.736 ug/L

RT: 6.18 min Scan# 1582

Delta R.T. 0.00 min

Lab File: VV014519.D

Acq: 06 Feb 2020 15:12

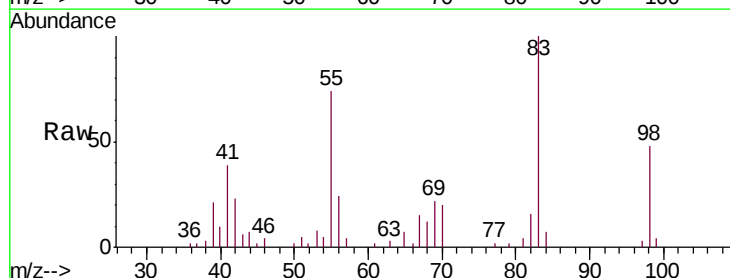
Tgt Ion: 83 Resp: 13497

Ion Ratio Lower Upper

83 100

55 74.8 60.7 91.1

98 47.9 39.4 59.0

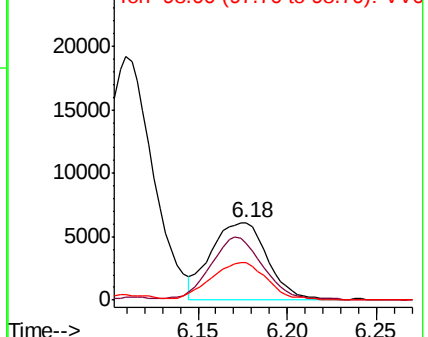
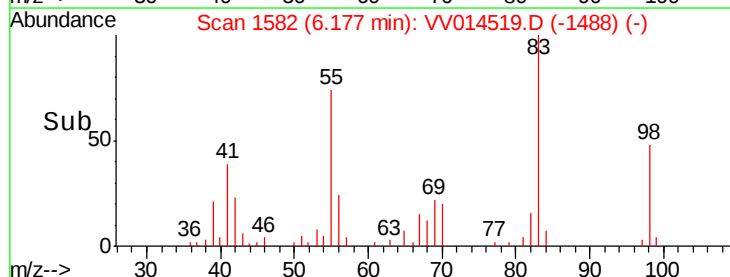


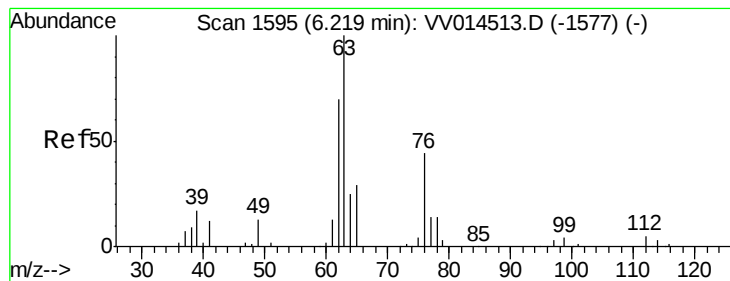
Abundance

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: 2.433 ug/L

RT: 6.22 min Scan# 1595

Delta R.T. 0.00 min

Lab File: VV014519.D

Acq: 06 Feb 2020 15:12

Instrument :

MSVOA_V

ClientSampleId :

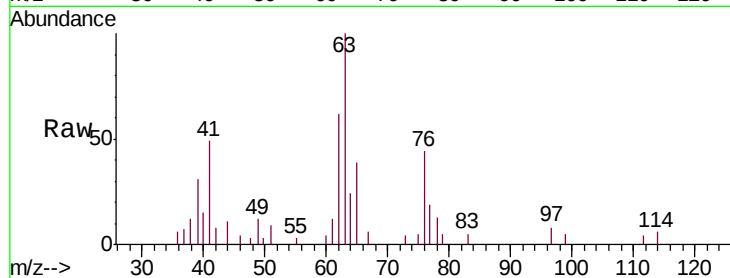
MDL01

Tgt Ion: 63 Resp: 7058

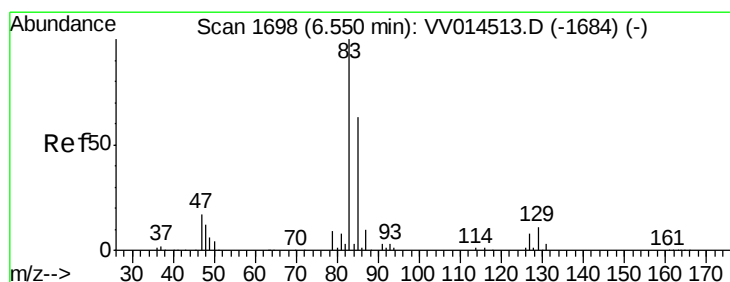
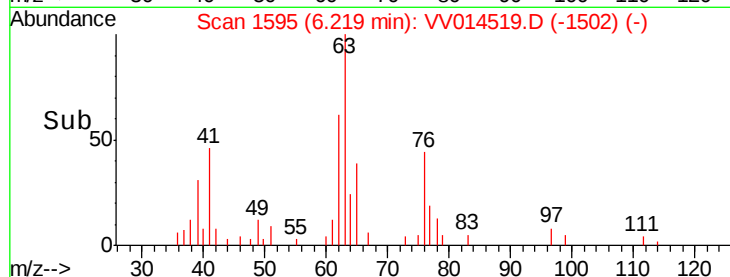
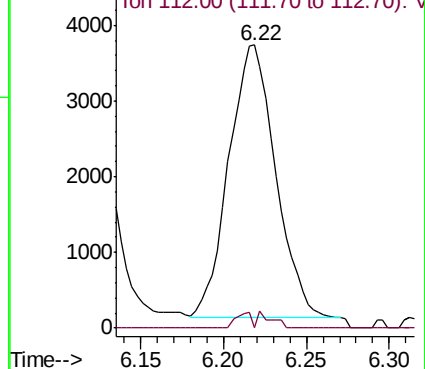
Ion Ratio Lower Upper

63 100

112 0.9 3.7 5.5#



Abundance Ion 63.00 (62.70 to 63.70): VV014519.D (-1502) (-)



#38

Bromodichloromethane

Concen: 2.379 ug/L

RT: 6.55 min Scan# 1697

Delta R.T. -0.00 min

Lab File: VV014519.D

Acq: 06 Feb 2020 15:12

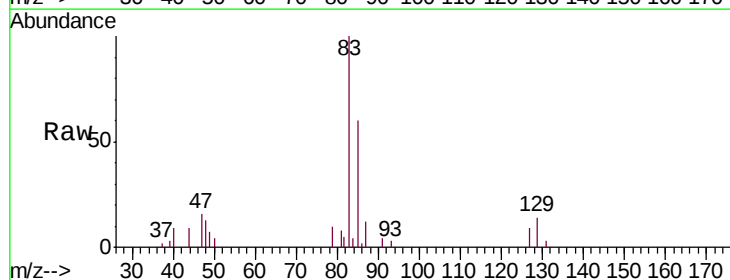
Tgt Ion: 83 Resp: 9260

Ion Ratio Lower Upper

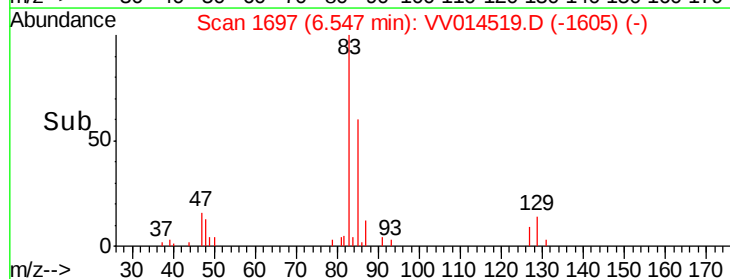
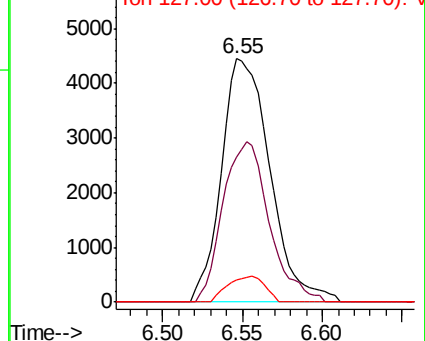
83 100

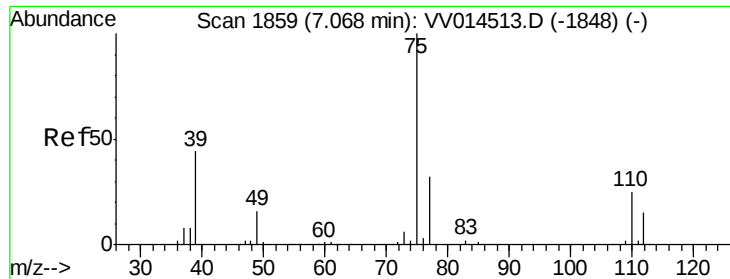
85 59.7 44.4 82.4

127 8.9 6.7 10.1



Abundance Ion 83.00 (82.70 to 83.70): VV014519.D (-1605) (-)

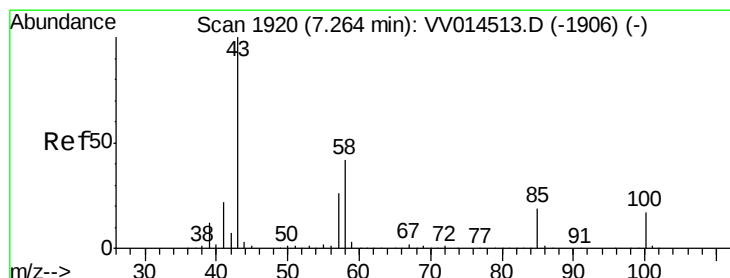
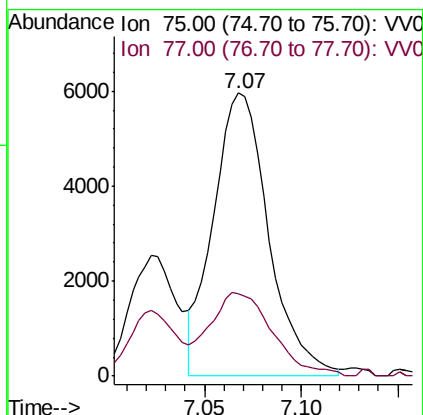
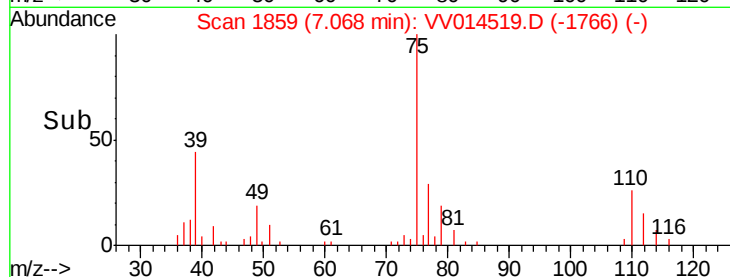
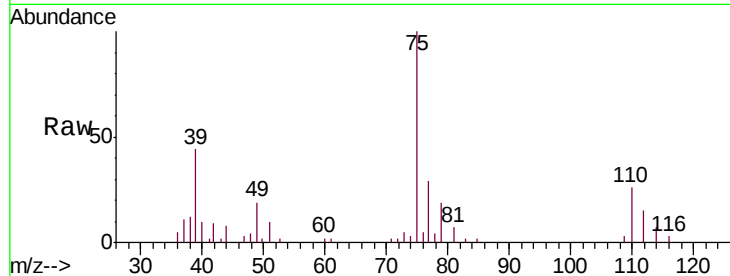




#39
 cis-1,3-Dichloropropene
 Concen: 2.455 ug/L
 RT: 7.07 min Scan# 1859
 Delta R.T. 0.00 min
 Lab File: VV014519.D
 Acq: 06 Feb 2020 15:12

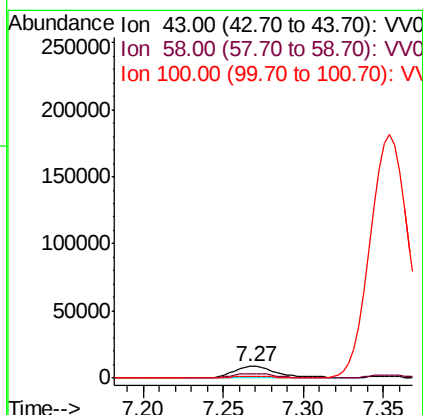
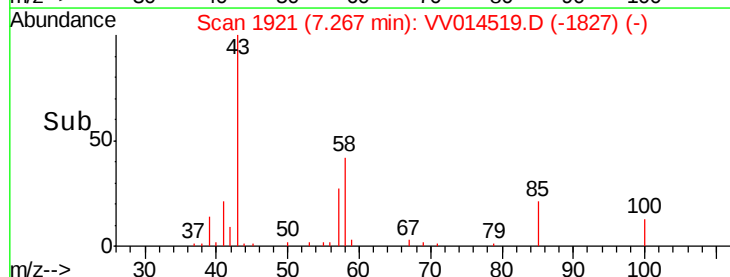
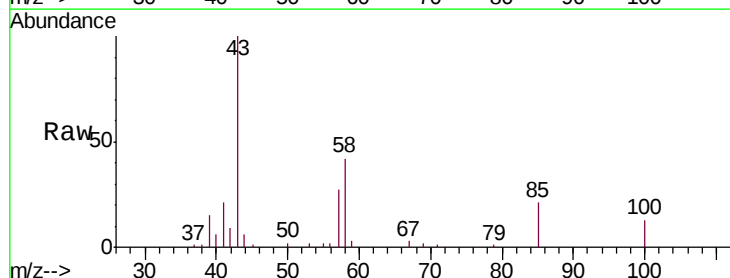
Instrument :
 MSVOA_V
 ClientSampled :
 MDL01

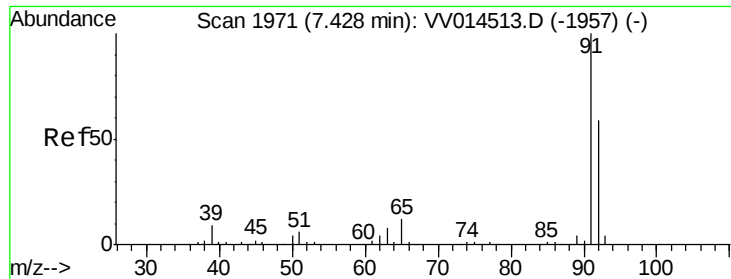
Tgt Ion: 75 Resp: 11882
 Ion Ratio Lower Upper
 75 100
 77 29.3 22.7 42.1



#40
 4-Methyl-2-pentanone
 Concen: 4.485 ug/L
 RT: 7.27 min Scan# 1921
 Delta R.T. 0.00 min
 Lab File: VV014519.D
 Acq: 06 Feb 2020 15:12

Tgt Ion: 43 Resp: 16811
 Ion Ratio Lower Upper
 43 100
 58 42.1 33.2 49.8
 100 15.7 13.9 20.9





#42

Toluene

Concen: 2.559 ug/L

RT: 7.43 min Scan# 1971

Delta R.T. 0.00 min

Lab File: VV014519.D

Acq: 06 Feb 2020 15:12

Instrument :

MSVOA_V

ClientSampleId :

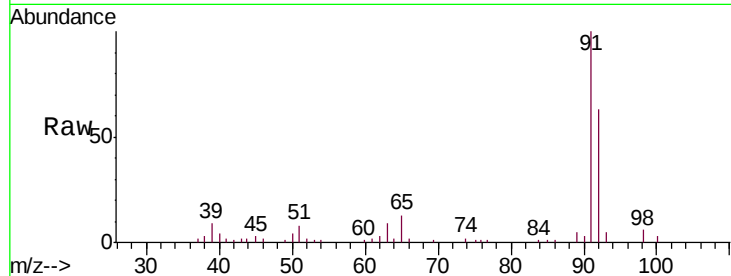
MDL01

Tgt Ion: 91 Resp: 31249

Ion Ratio Lower Upper

91 100

92 63.5 41.6 77.2



Abundance Ion 91.00 (90.70 to 91.70): VV0

Ion 92.00 (91.70 to 92.70): VV0

7.43

15000

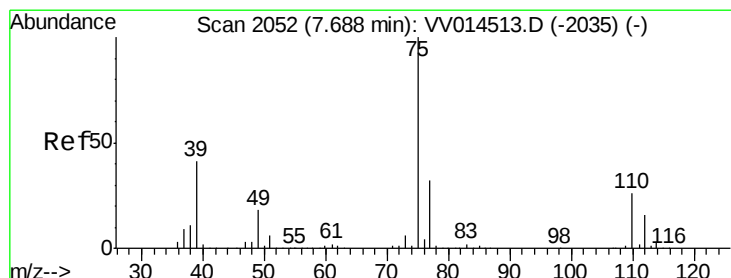
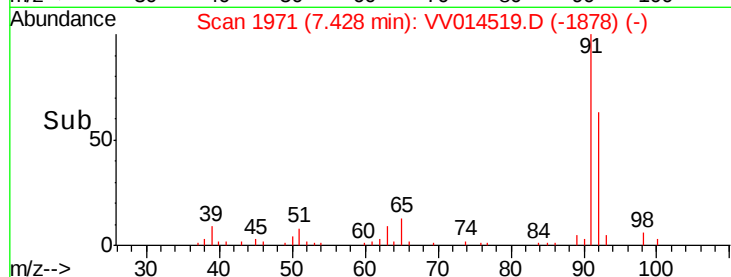
10000

5000

0

Time-->

7.35 7.40 7.45 7.50



#44

trans-1,3-Dichloropropene

Concen: 2.578 ug/L

RT: 7.69 min Scan# 2053

Delta R.T. 0.00 min

Lab File: VV014519.D

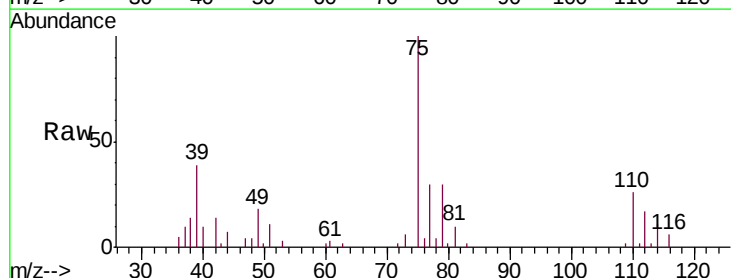
Acq: 06 Feb 2020 15:12

Tgt Ion: 75 Resp: 11184

Ion Ratio Lower Upper

75 100

77 29.9 22.2 41.2



Abundance Ion 75.00 (74.70 to 75.70): VV0

Ion 77.00 (76.70 to 77.70): VV0

7.69

6000

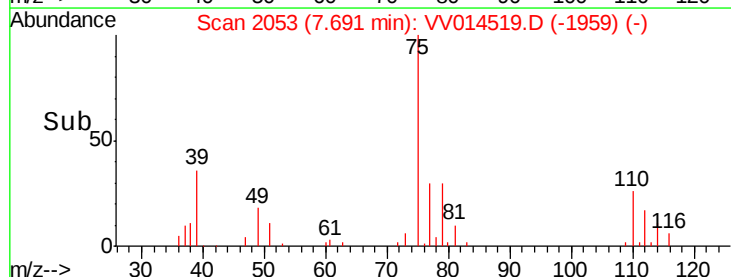
4000

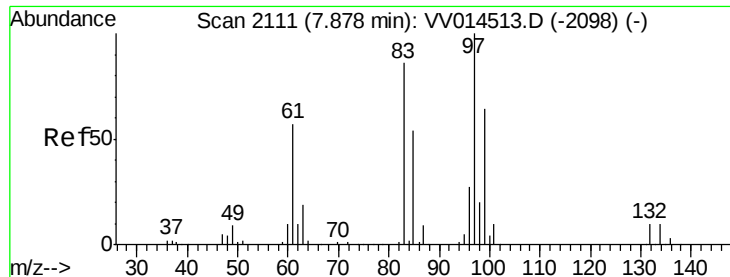
2000

0

Time-->

7.65 7.70 7.75

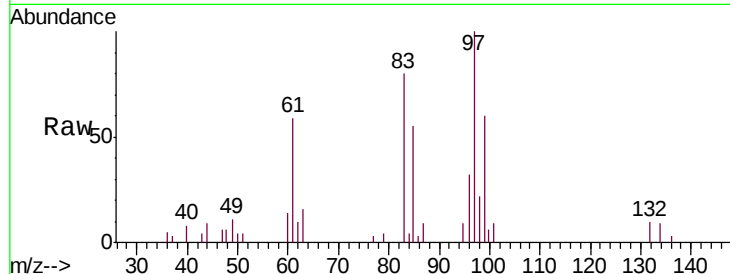




#45
 1,1,2-Trichloroethane
 Concen: 2.431 ug/L
 RT: 7.88 min Scan# 2111
 Delta R.T. 0.00 min
 Lab File: VV014519.D
 Acq: 06 Feb 2020 15:12

Instrument :
 MSVOA_V
 ClientSampleId :
 MDL01

Tgt Ion:	97	Resp:	6766
Ion	Ratio	Lower	Upper
97	100		
99	60.2	44.5	82.7
83	80.4	60.1	111.5
85	54.8	38.1	70.9



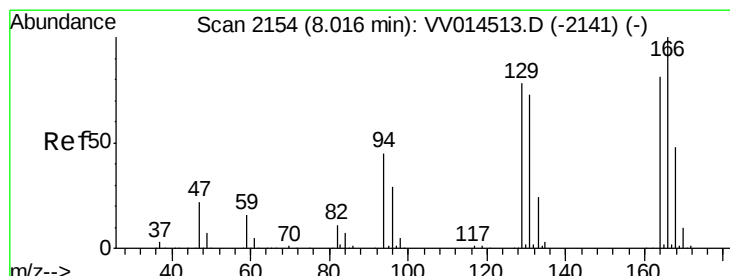
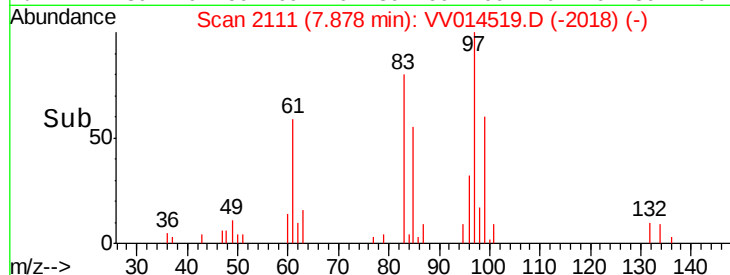
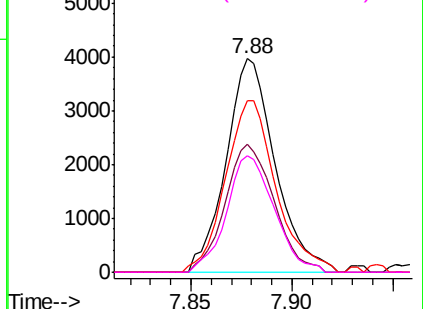
Abundance

Ion 97.00 (96.70 to 97.70): VV0

Ion 99.00 (98.70 to 99.70): VV0

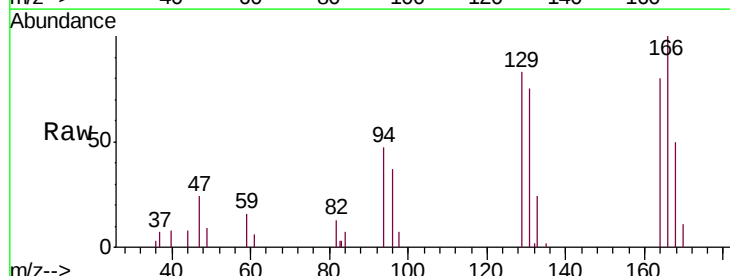
Ion 83.00 (82.70 to 83.70): VV0

Ion 85.00 (84.70 to 85.70): VV0



#46
 Tetrachloroethene
 Concen: 2.513 ug/L
 RT: 8.01 min Scan# 2153
 Delta R.T. -0.00 min
 Lab File: VV014519.D
 Acq: 06 Feb 2020 15:12

Tgt Ion:	164	Resp:	5787
Ion	Ratio	Lower	Upper
164	100		
129	103.4	68.0	126.4
131	94.4	63.4	117.8
166	125.3	86.9	161.3



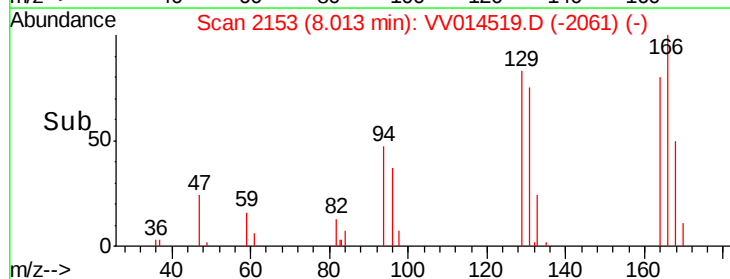
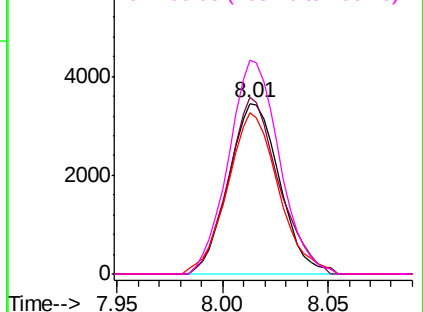
Abundance

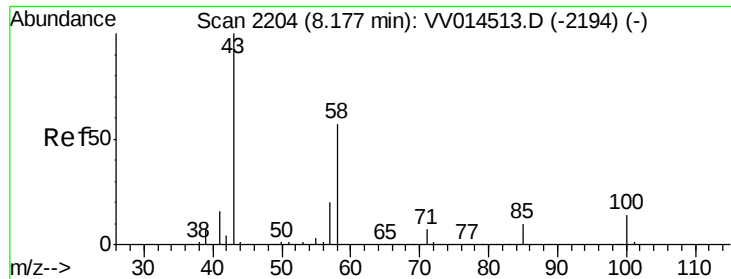
Ion 164.00 (163.70 to 164.70): V

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

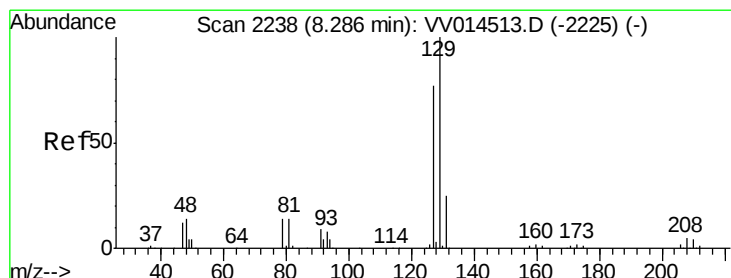
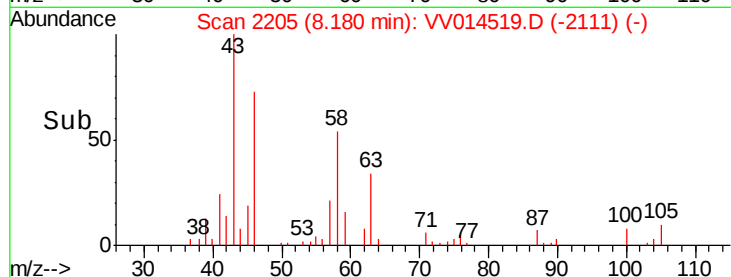
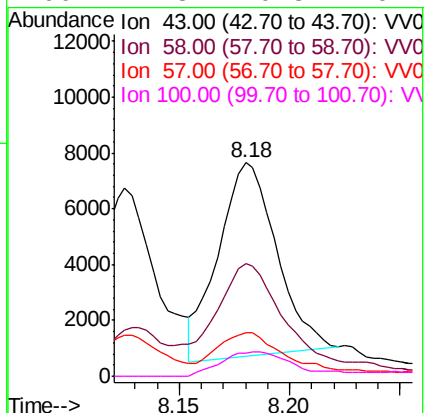
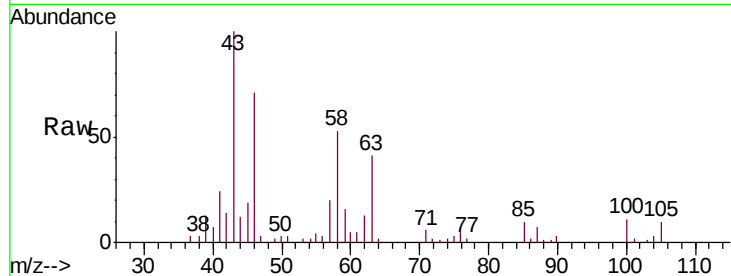




#48
2-Hexanone
Concen: 4.420 ug/L
RT: 8.18 min Scan# 2205
Delta R.T. 0.00 min
Lab File: VV014519.D
Acq: 06 Feb 2020 15:12

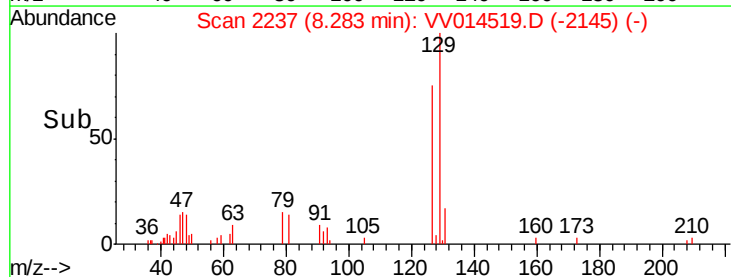
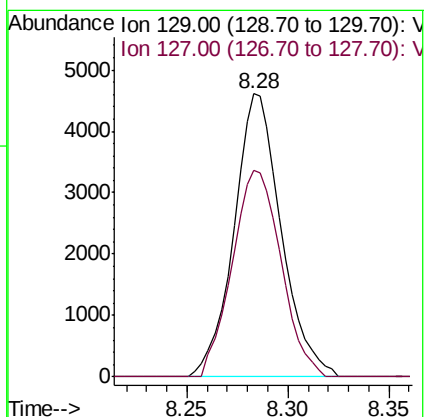
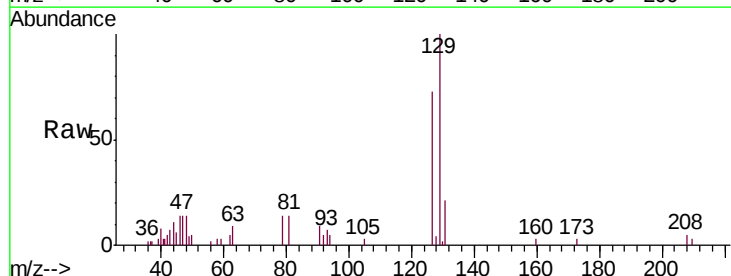
Instrument :
MSVOA_V
ClientSampleId :
MDL01

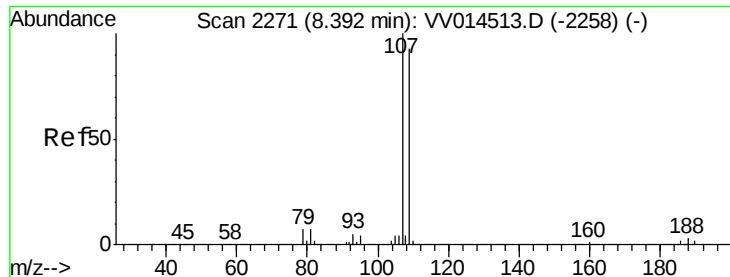
Tgt Ion: 43 Resp: 12754
Ion Ratio Lower Upper
43 100
58 57.8 45.5 68.3
57 16.3 15.8 23.6
100 14.8 10.8 16.2



#49
Dibromochloromethane
Concen: 2.405 ug/L
RT: 8.28 min Scan# 2237
Delta R.T. -0.00 min
Lab File: VV014519.D
Acq: 06 Feb 2020 15:12

Tgt Ion: 129 Resp: 7558
Ion Ratio Lower Upper
129 100
127 73.2 54.1 100.5

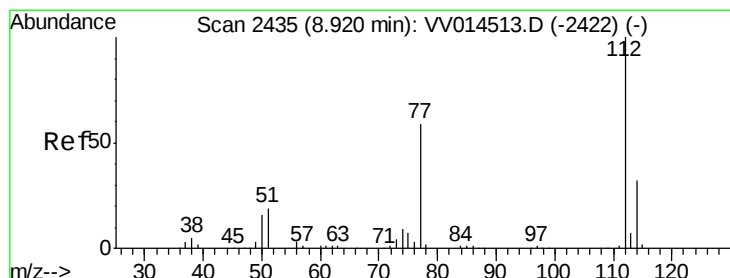
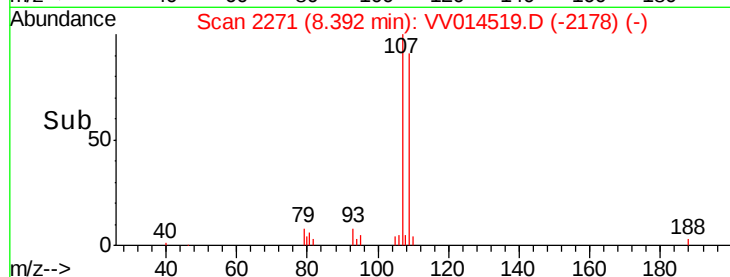
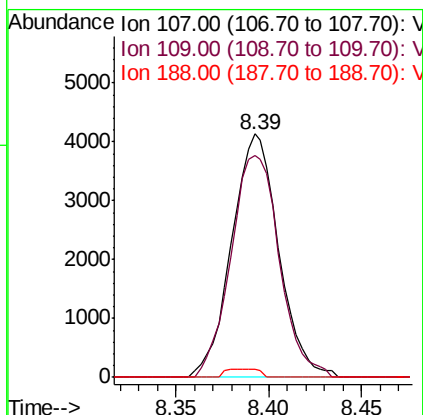
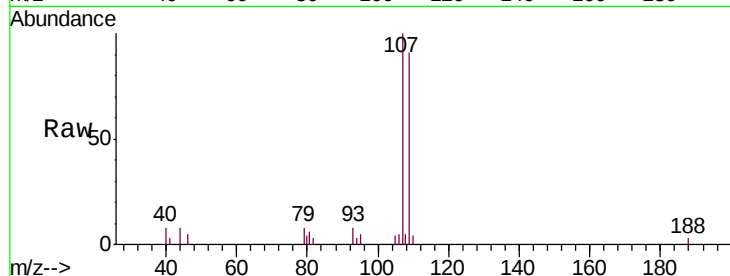




#50
1,2-Dibromoethane
Concen: 2.411 ug/L
RT: 8.39 min Scan# 2271
Delta R.T. 0.00 min
Lab File: VV014519.D
Acq: 06 Feb 2020 15:12

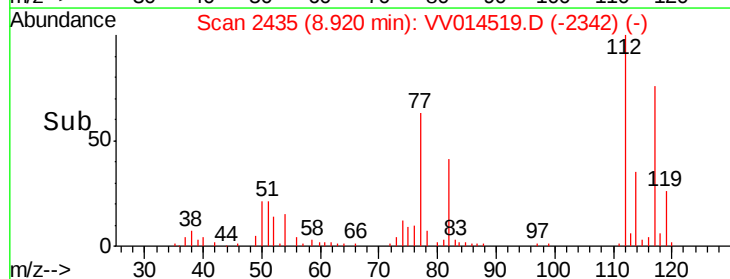
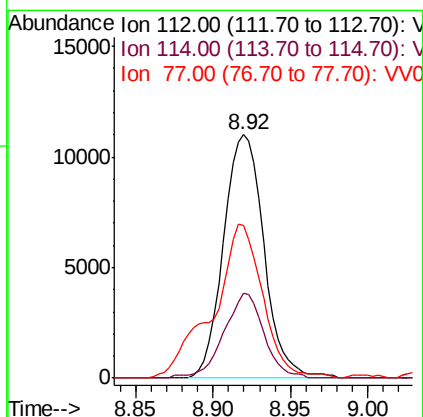
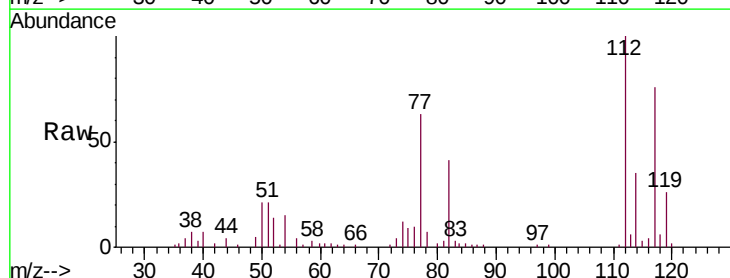
Instrument :
MSVOA_V
ClientSampled :
MDL01

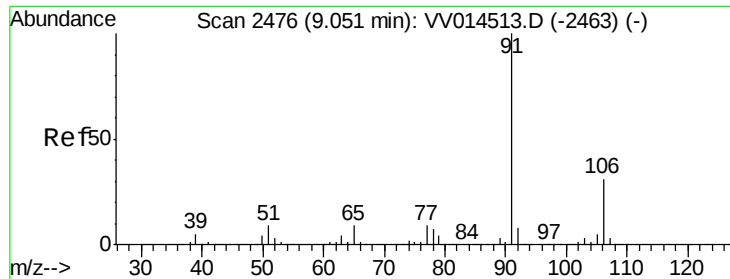
Tgt Ion:107 Resp: 7268
Ion Ratio Lower Upper
107 100
109 91.3 65.2 121.2
188 3.4 2.6 4.0



#51
Chlorobenzene
Concen: 2.497 ug/L
RT: 8.92 min Scan# 2435
Delta R.T. 0.00 min
Lab File: VV014519.D
Acq: 06 Feb 2020 15:12

Tgt Ion:112 Resp: 19918
Ion Ratio Lower Upper
112 100
114 34.7 22.3 41.5
77 62.6 47.3 70.9





#52

Ethylbenzene

Concen: 2.514 ug/L

RT: 9.05 min Scan# 2476

Delta R.T. 0.00 min

Lab File: VV014519.D

Acq: 06 Feb 2020 15:12

Instrument :

MSVOA_V

ClientSampleId :

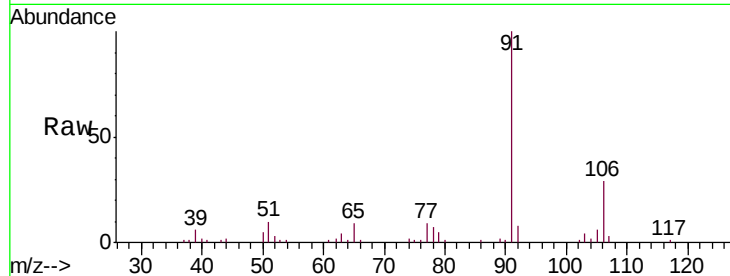
MDL01

Tgt Ion: 91 Resp: 34422

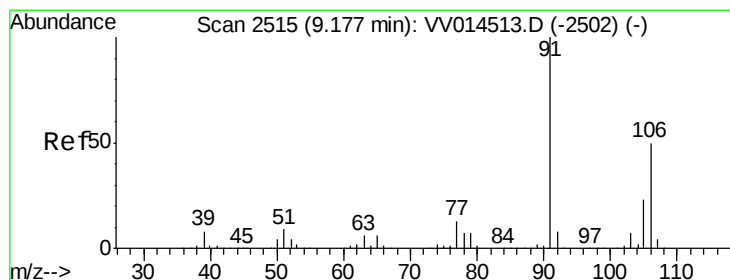
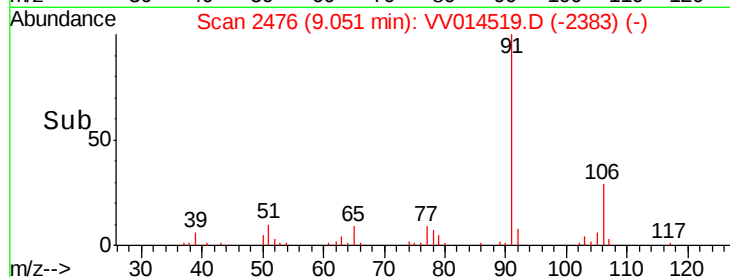
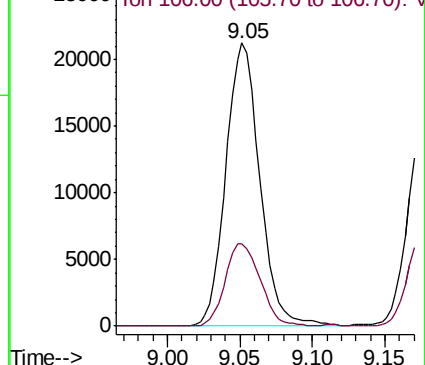
Ion Ratio Lower Upper

91 100

106 29.3 21.5 39.9



Abundance Ion 91.00 (90.70 to 91.70): VV014519.D (-2463) (-)



#53

m,p-Xylene

Concen: 2.419 ug/L

RT: 9.18 min Scan# 2515

Delta R.T. 0.00 min

Lab File: VV014519.D

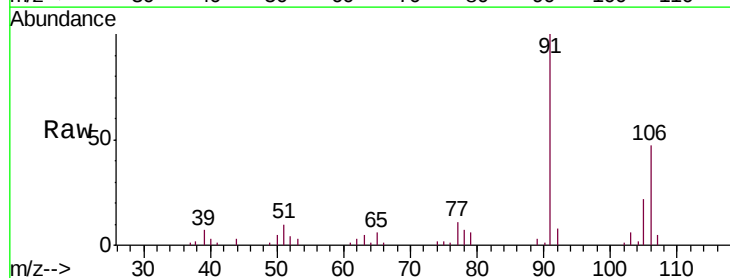
Acq: 06 Feb 2020 15:12

Tgt Ion: 106 Resp: 12758

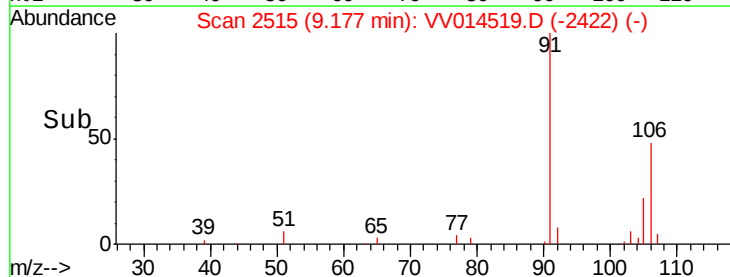
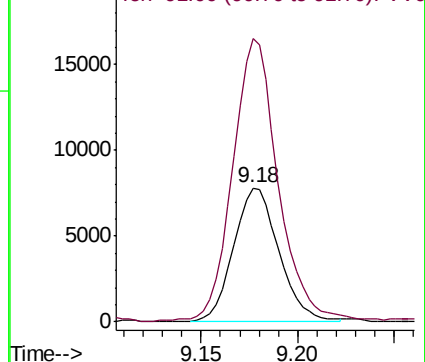
Ion Ratio Lower Upper

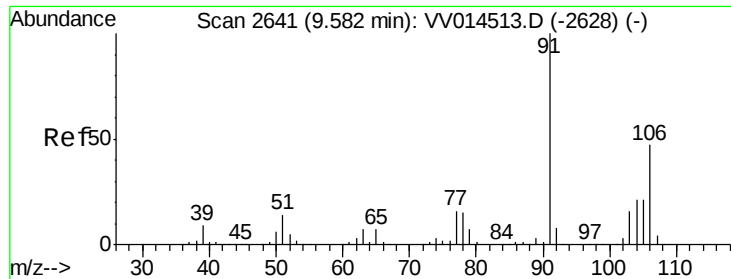
106 100

91 211.0 141.4 262.6



Abundance Ion 106.00 (105.70 to 106.70): VV014519.D (-2502) (-)

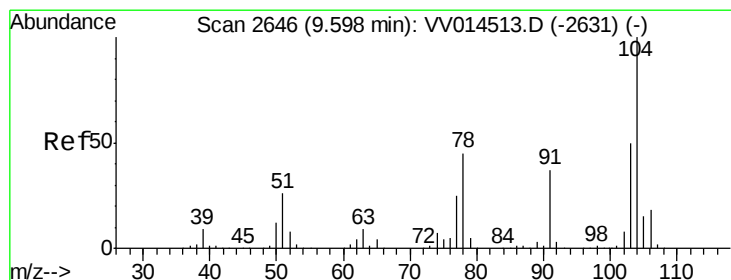
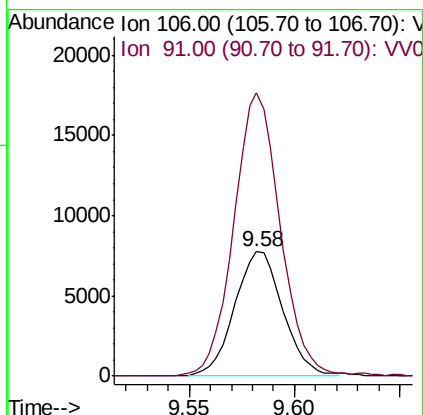
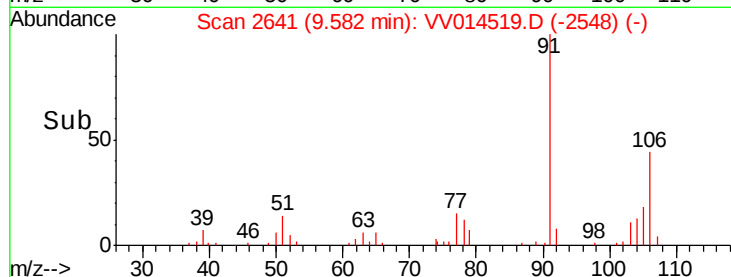
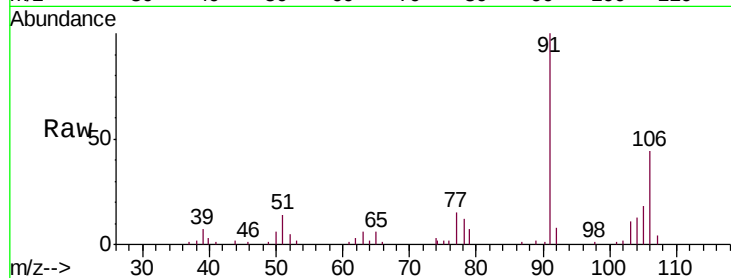




#54
o-Xylene
Concen: 2.449 ug/L
RT: 9.58 min Scan# 2641
Delta R.T. 0.00 min
Lab File: VV014519.D
Acq: 06 Feb 2020 15:12

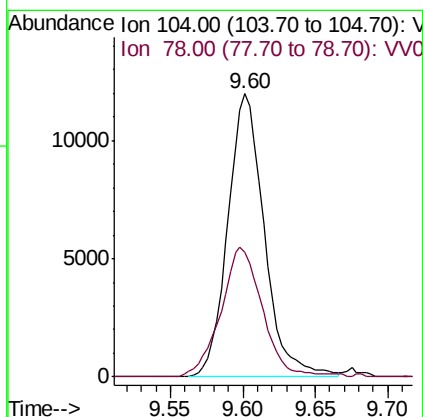
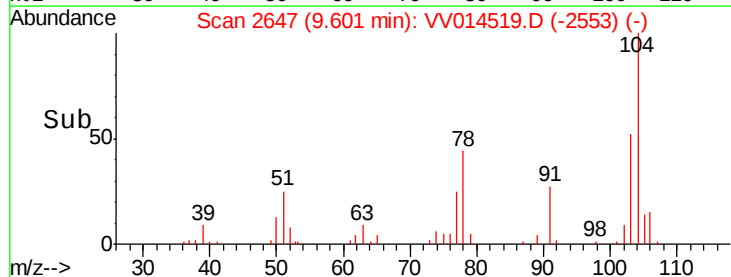
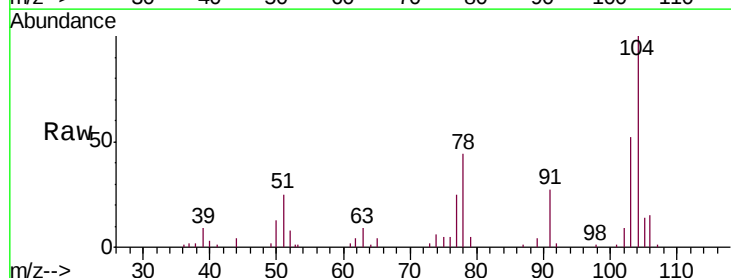
Instrument :
MSVOA_V
ClientSampled :
MDL01

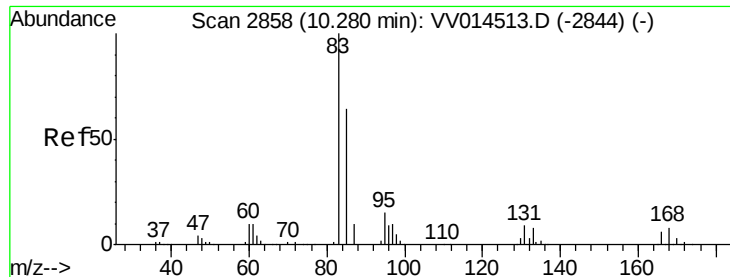
Tgt Ion:106 Resp: 12365
Ion Ratio Lower Upper
106 100
91 227.4 149.4 277.4



#55
Styrene
Concen: 2.424 ug/L
RT: 9.60 min Scan# 2647
Delta R.T. 0.00 min
Lab File: VV014519.D
Acq: 06 Feb 2020 15:12

Tgt Ion:104 Resp: 20915
Ion Ratio Lower Upper
104 100
78 44.1 31.6 58.8





#57

1,1,2,2-Tetrachloroethane

Concen: 2.676 ug/L

RT: 10.28 min Scan# 2858

Delta R.T. 0.00 min

Lab File: VV014519.D

Acq: 06 Feb 2020 15:12

Instrument :

MSVOA_V

ClientSampled :

MDL01

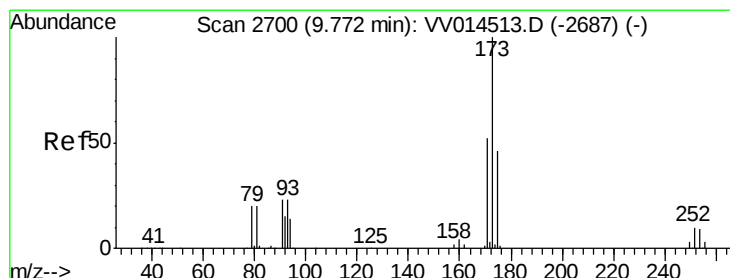
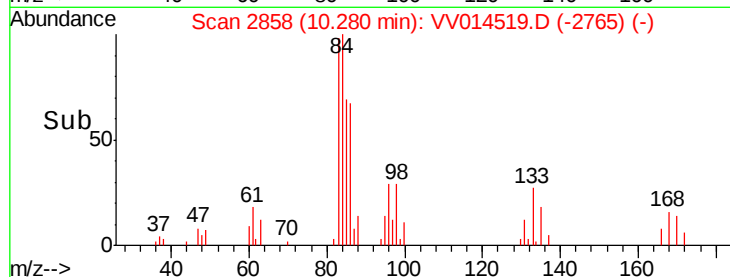
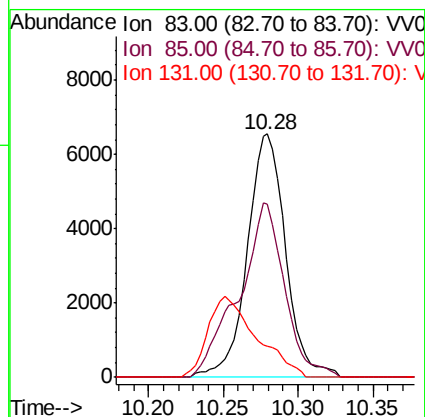
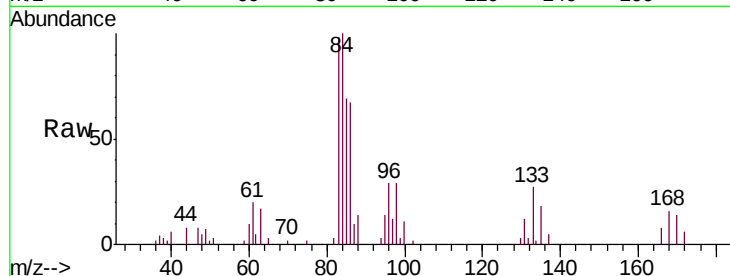
Tgt Ion: 83 Resp: 11673

Ion Ratio Lower Upper

83 100

85 71.0 45.2 84.0

131 12.7 7.8 11.8#



#59

Bromoform

Concen: 2.144 ug/L

RT: 9.77 min Scan# 2700

Delta R.T. 0.00 min

Lab File: VV014519.D

Acq: 06 Feb 2020 15:12

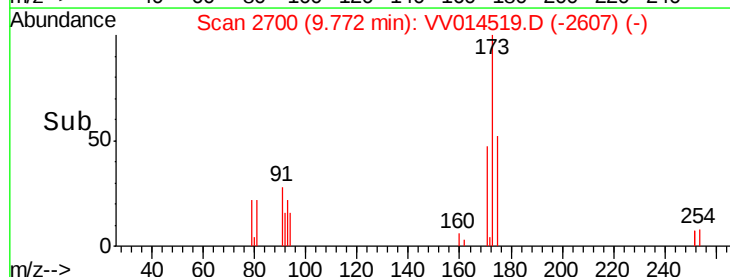
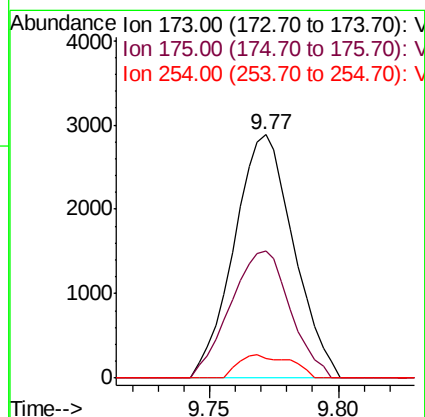
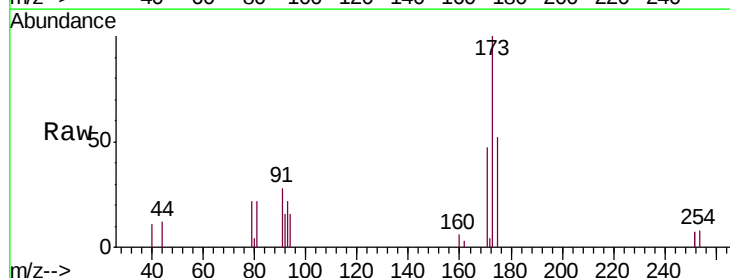
Tgt Ion: 173 Resp: 4641

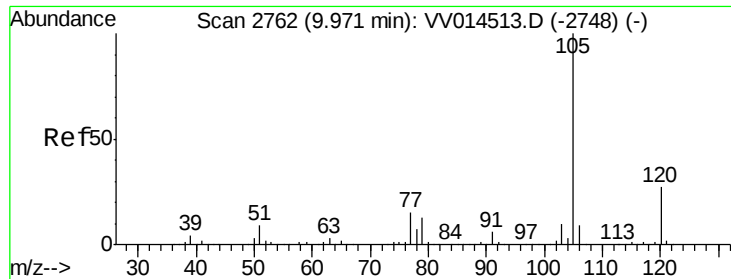
Ion Ratio Lower Upper

173 100

175 52.4 37.8 56.8

254 5.5 7.0 10.6#





#60

Isopropylbenzene

Concen: 2.537 ug/L

RT: 9.97 min Scan# 2761

Delta R.T. -0.00 min

Lab File: VV014519.D

Acq: 06 Feb 2020 15:12

Instrument :

MSVOA_V

ClientSampled :

MDL01

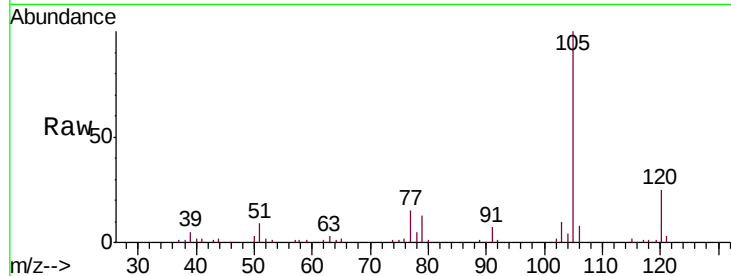
Tgt Ion: 105 Resp: 33298

Ion Ratio Lower Upper

105 100

120 25.0 21.5 32.3

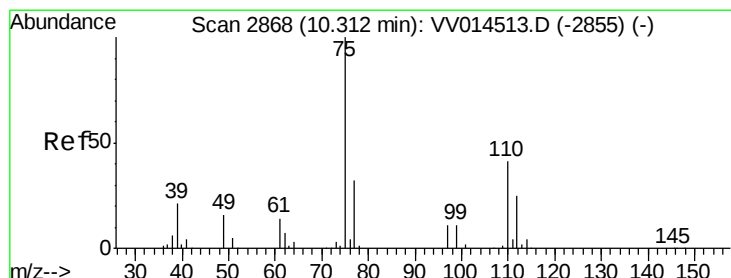
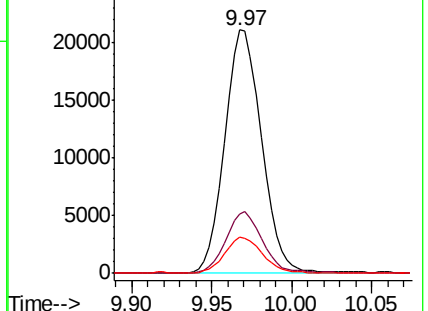
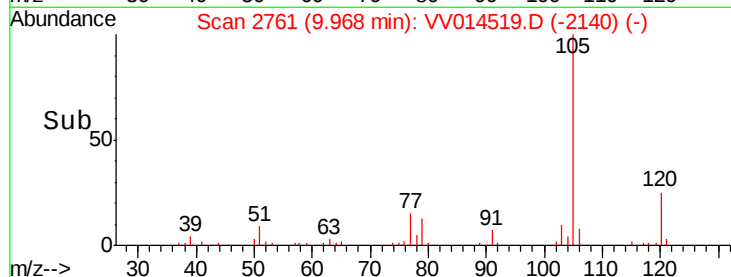
77 15.0 12.2 18.4



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

Ion 77.00 (76.70 to 77.70): V



#61

1,2,3-Trichloropropane

Concen: 2.527 ug/L

RT: 10.31 min Scan# 2868

Delta R.T. 0.00 min

Lab File: VV014519.D

Acq: 06 Feb 2020 15:12

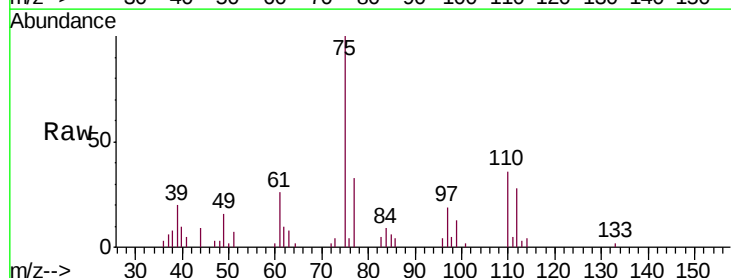
Tgt Ion: 75 Resp: 8685

Ion Ratio Lower Upper

75 100

77 33.1 25.8 38.8

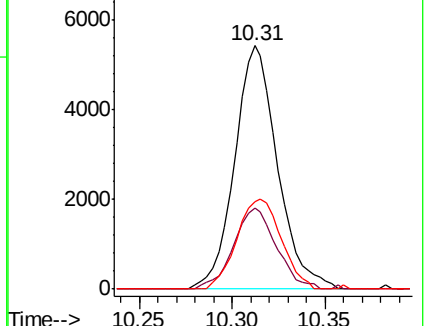
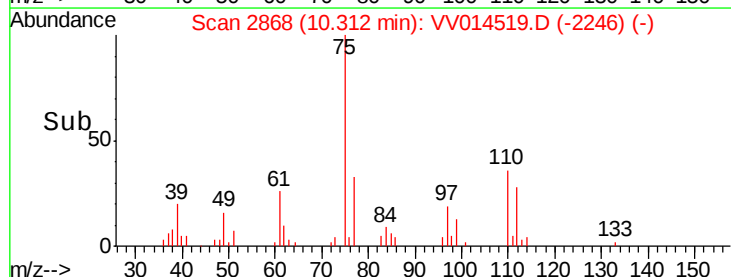
110 38.3 32.4 48.6

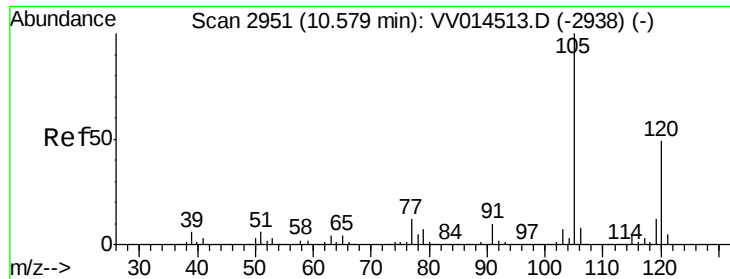


Abundance Ion 75.00 (74.70 to 75.70): VV0

Ion 77.00 (76.70 to 77.70): VV0

Ion 110.00 (109.70 to 110.70): V





#62

1,3,5-Trimethylbenzene

Concen: 2.483 ug/L

RT: 10.58 min Scan# 2951

Delta R.T. 0.00 min

Lab File: VV014519.D

Acq: 06 Feb 2020 15:12

Instrument :

MSVOA_V

ClientSampled :

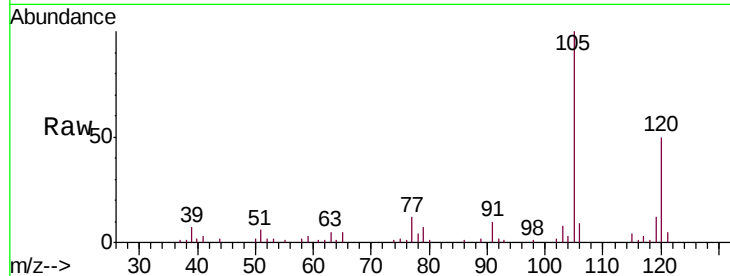
MDL01

Tgt Ion:105 Resp: 27898

Ion Ratio Lower Upper

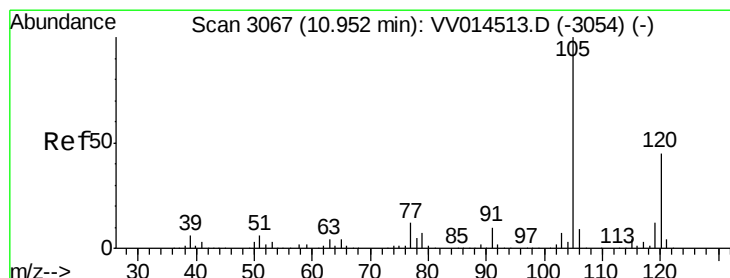
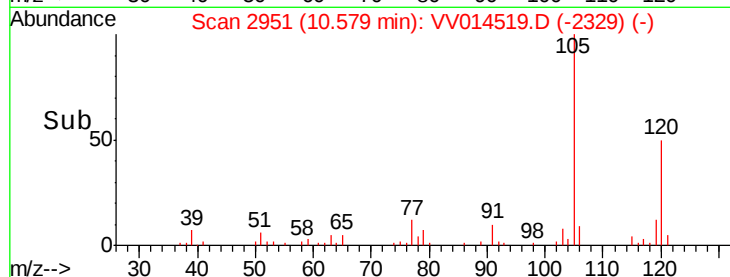
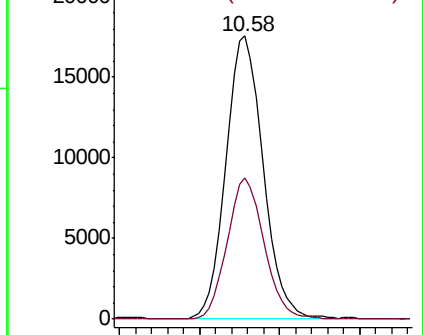
105 100

120 49.3 39.0 58.6



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#63

1,2,4-Trimethylbenzene

Concen: 2.402 ug/L

RT: 10.95 min Scan# 3068

Delta R.T. 0.00 min

Lab File: VV014519.D

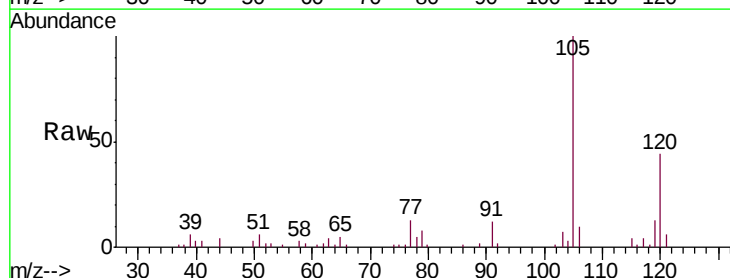
Acq: 06 Feb 2020 15:12

Tgt Ion:105 Resp: 26607

Ion Ratio Lower Upper

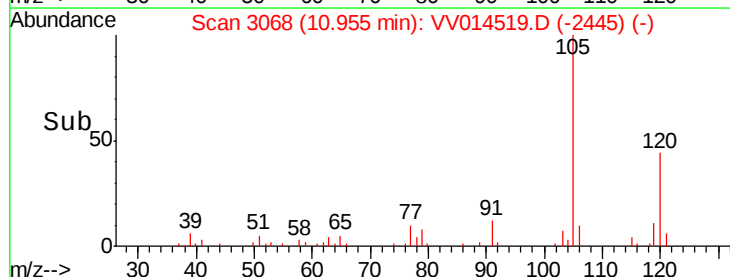
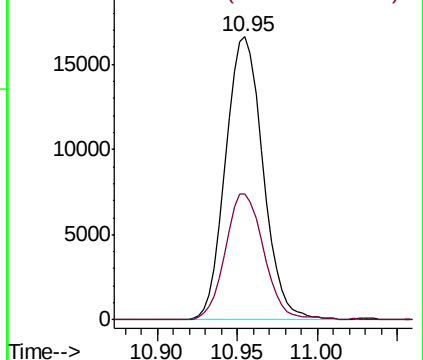
105 100

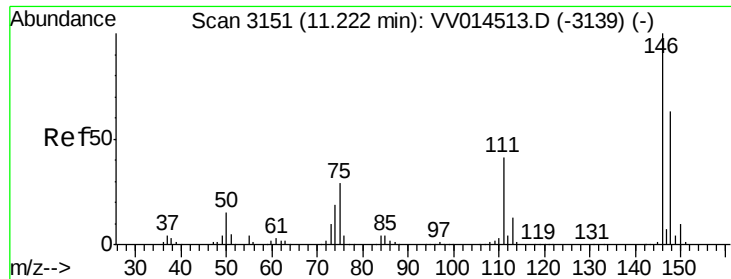
120 45.9 36.2 54.4



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

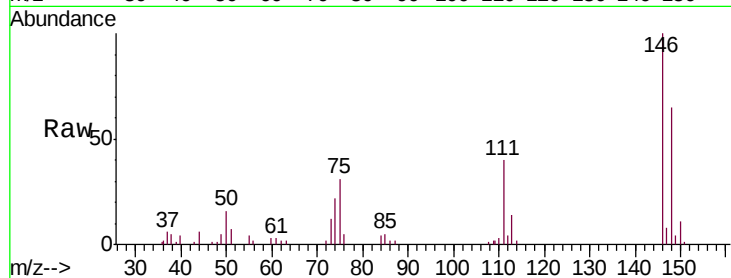




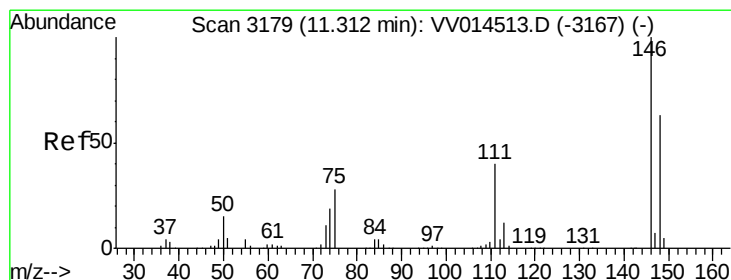
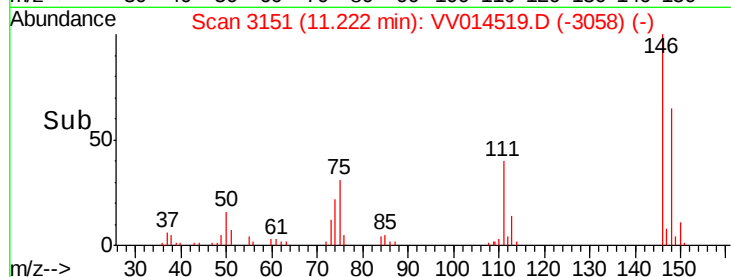
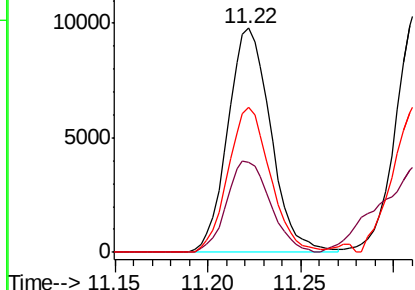
#64
 1,3-Dichlorobenzene
 Concen: 2.550 ug/L
 RT: 11.22 min Scan# 3151
 Delta R.T. 0.00 min
 Lab File: VV014519.D
 Acq: 06 Feb 2020 15:12

Instrument :
 MSVOA_V
 ClientSampled :
 MDL01

Tgt Ion:146 Resp: 15785
 Ion Ratio Lower Upper
 146 100
 111 40.3 28.9 53.7
 148 65.0 44.4 82.5

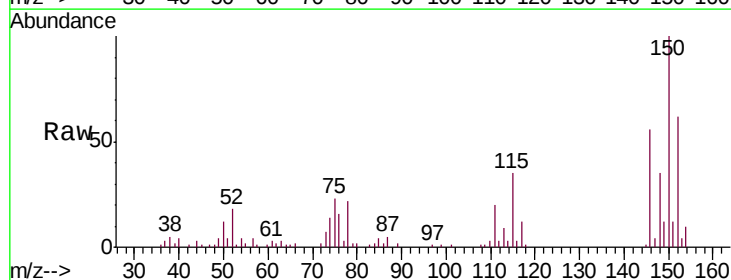


Abundance Ion 146.00 (145.70 to 146.70): V
 Ion 111.00 (110.70 to 111.70): V
 Ion 148.00 (147.70 to 148.70): V

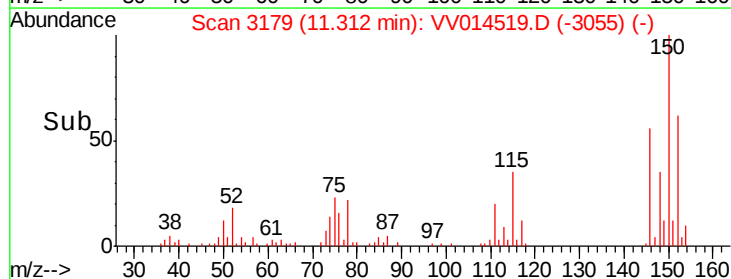
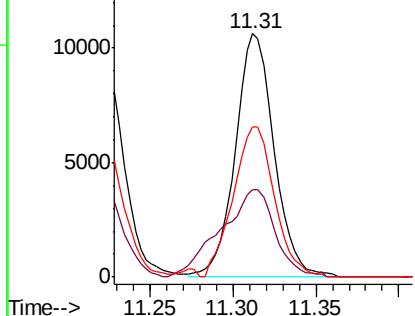


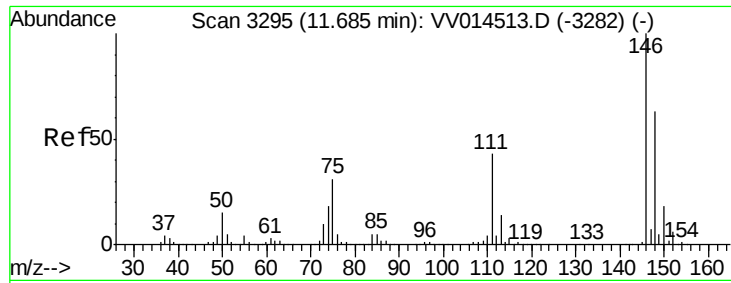
#65
 1,4-Dichlorobenzene
 Concen: 2.719 ug/L
 RT: 11.31 min Scan# 3179
 Delta R.T. 0.00 min
 Lab File: VV014519.D
 Acq: 06 Feb 2020 15:12

Tgt Ion:146 Resp: 17332
 Ion Ratio Lower Upper
 146 100
 111 36.0 28.1 52.3
 148 61.9 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

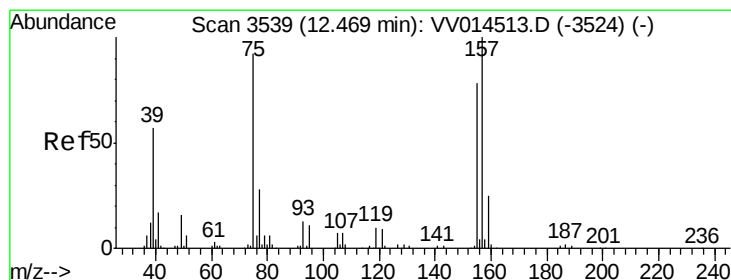
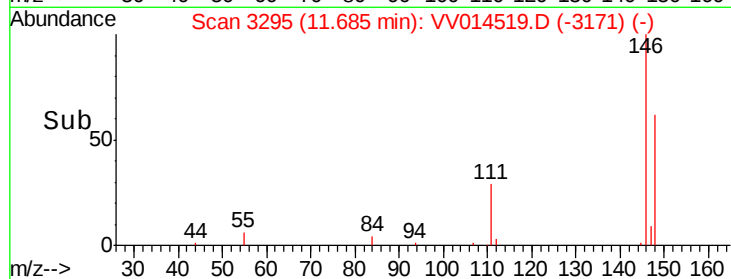
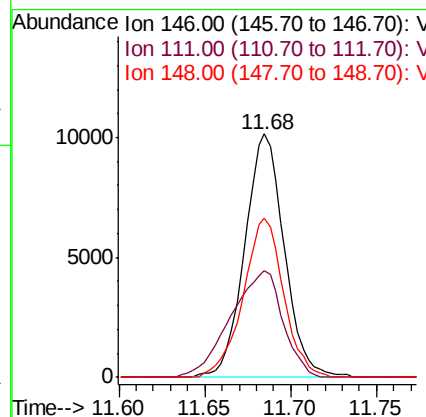
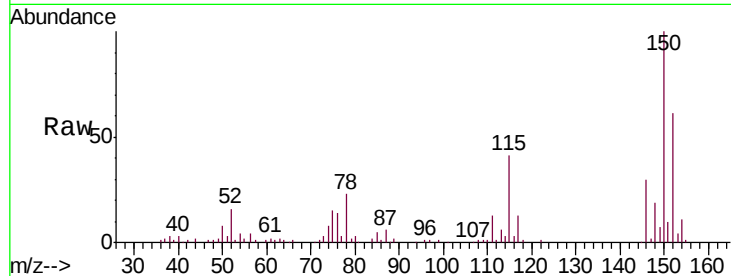




#67
 1,2-Dichlorobenzene
 Concen: 2.691 ug/L
 RT: 11.68 min Scan# 3295
 Delta R.T. 0.00 min
 Lab File: VV014519.D
 Acq: 06 Feb 2020 15:12

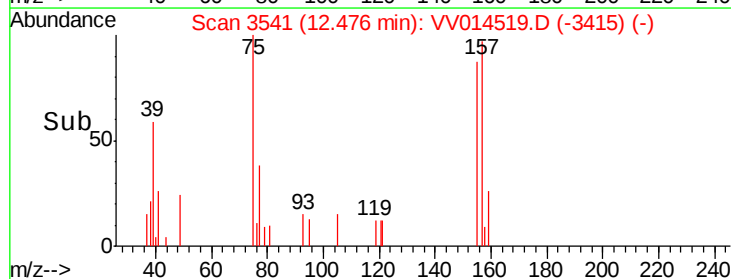
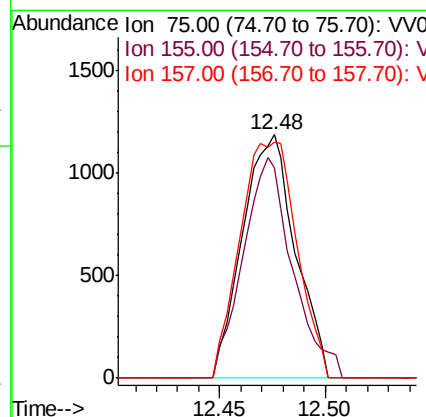
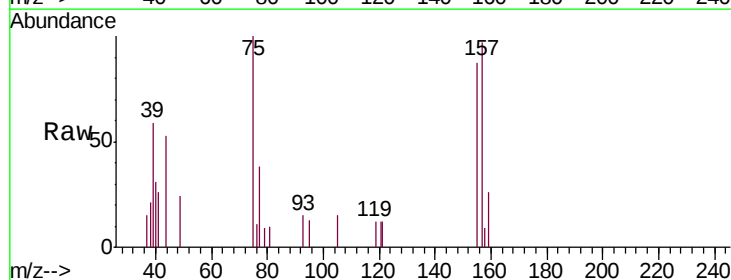
Instrument :
 MSVOA_V
 ClientSampleId :
 MDL01

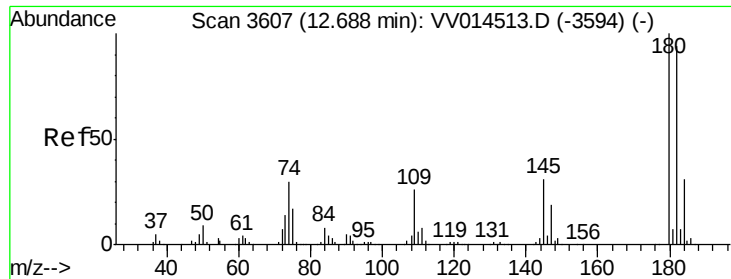
Tgt Ion: 146 Resp: 16155
 Ion Ratio Lower Upper
 146 100
 111 43.8 34.6 51.8
 148 65.5 50.2 75.4



#68
 1,2-Dibromo-3-chloropropane
 Concen: 2.136 ug/L
 RT: 12.48 min Scan# 3541
 Delta R.T. 0.01 min
 Lab File: VV014519.D
 Acq: 06 Feb 2020 15:12

Tgt Ion: 75 Resp: 2056
 Ion Ratio Lower Upper
 75 100
 155 86.6 68.3 102.5
 157 97.0 87.1 130.7

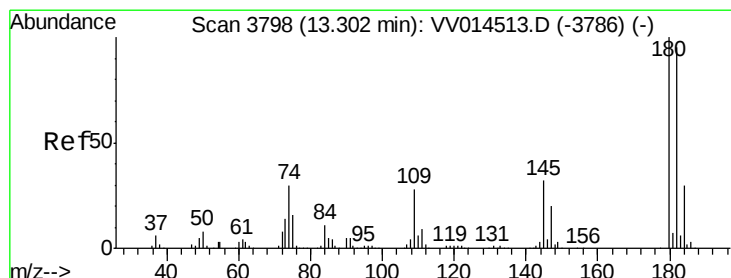
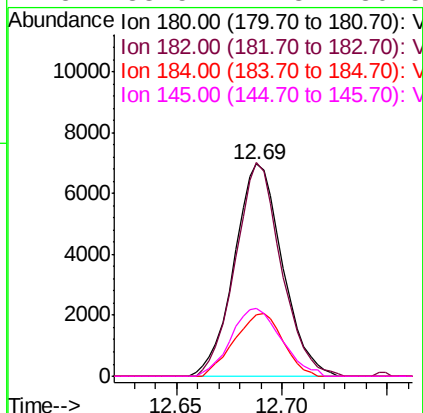
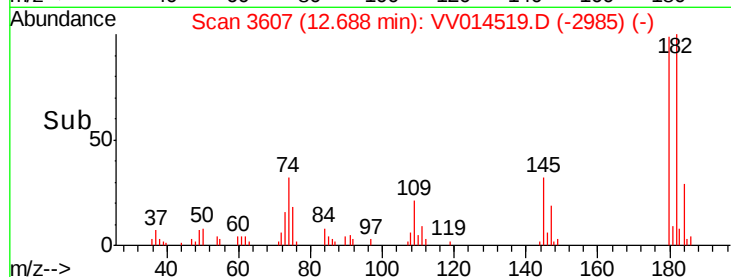
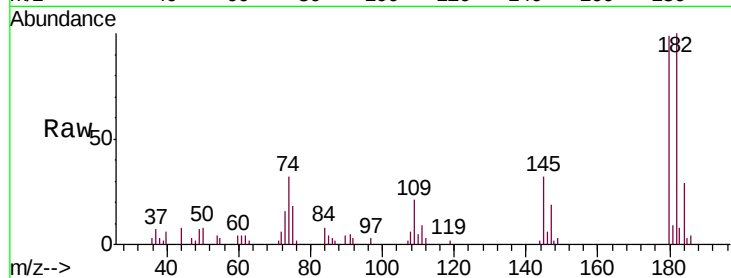




#69
 1,3,5-Trichlorobenzene
 Concen: 2.529 ug/L
 RT: 12.69 min Scan# 3607
 Delta R.T. 0.00 min
 Lab File: VV014519.D
 Acq: 06 Feb 2020 15:12

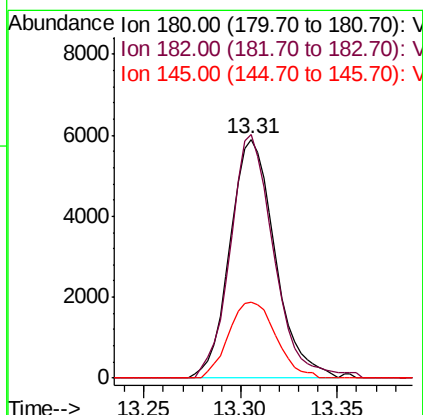
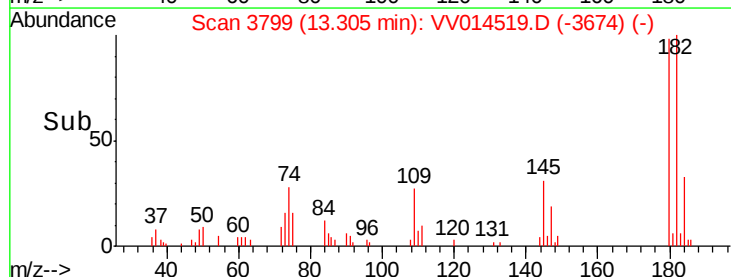
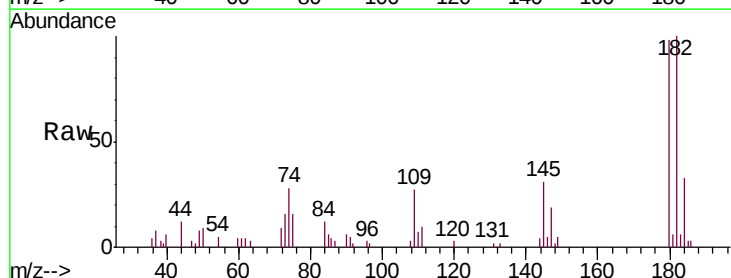
Instrument :
 MSVOA_V
 ClientSampled :
 MDL01

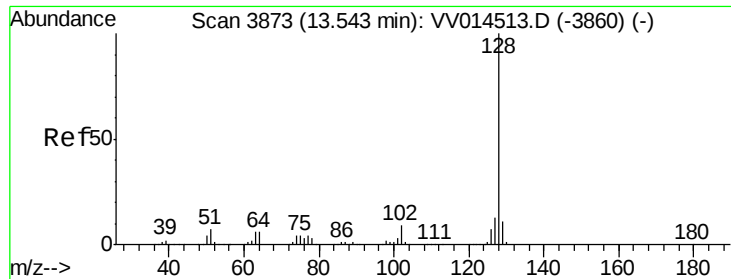
Tgt Ion:180 Resp: 11031
 Ion Ratio Lower Upper
 180 100
 182 95.7 75.0 112.4
 184 29.7 24.2 36.2
 145 33.5 24.3 36.5



#70
 1,2,4-trichlorobenzene
 Concen: 2.389 ug/L
 RT: 13.31 min Scan# 3799
 Delta R.T. 0.00 min
 Lab File: VV014519.D
 Acq: 06 Feb 2020 15:12

Tgt Ion:180 Resp: 9569
 Ion Ratio Lower Upper
 180 100
 182 97.8 76.0 114.0
 145 33.3 25.3 37.9

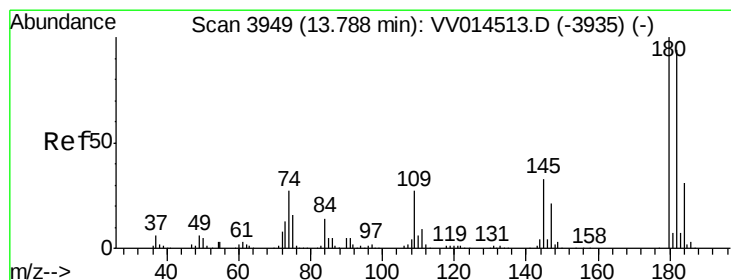
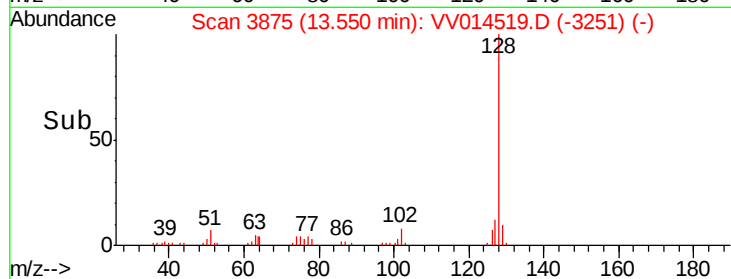
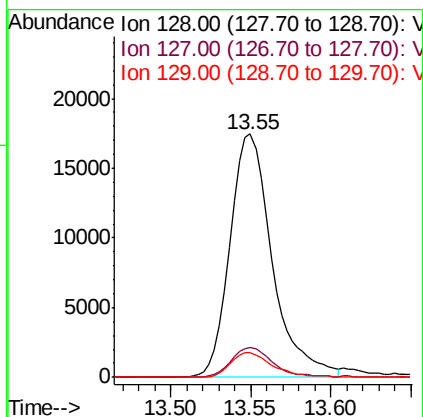
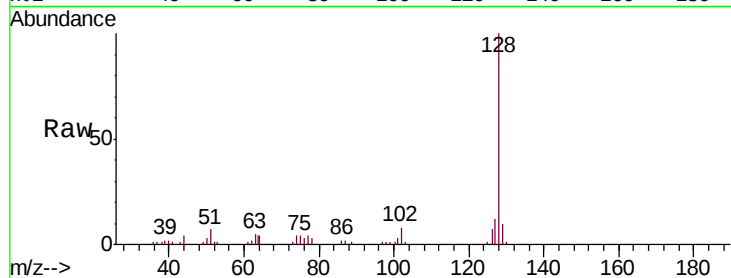




#71
Naphthalene
Concen: 2.403 ug/L
RT: 13.55 min Scan# 3875
Delta R.T. 0.01 min
Lab File: VV014519.D
Acq: 06 Feb 2020 15:12

Instrument :
MSVOA_V
ClientSampleId :
MDL01

Tgt Ion:128 Resp: 31605
Ion Ratio Lower Upper
128 100
127 11.4 10.3 15.5
129 9.8 8.7 13.1



#72
1,2,3-Trichlorobenzene
Concen: 2.321 ug/L
RT: 13.79 min Scan# 3949
Delta R.T. 0.00 min
Lab File: VV014519.D
Acq: 06 Feb 2020 15:12

Tgt Ion:180 Resp: 9030
Ion Ratio Lower Upper
180 100
182 93.3 75.2 112.8
145 34.0 27.1 40.7

