

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU052819\
 Data File : VU032323.D
 Acq On : 28 May 2019 12:59
 Operator : JC/SP
 Sample : VSTDICV050
 Misc : 5.0mL/MSVOA_U/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 VICV58

Quant Time: May 29 05:22:40 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM052819WMA.M
 Quant Title : VOC Analysis
 QLast Update : Wed May 29 05:19:36 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.88	114	827359	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.09	117	837320	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.48	152	421647	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.40	65	293970	48.20	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	96.40%
7) Chloroethane-d5	1.67	69	230867	46.88	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	93.76%
11) 1,1-Dichloroethene-d2	2.27	63	524141	48.38	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	96.76%
21) 2-Butanone-d5	4.17	46	409117	101.93	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	101.93%
24) Chloroform-d	4.64	84	519262	48.65	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	97.30%
26) 1,2-Dichloroethane-d4	5.30	65	307594	48.70	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	97.40%
32) Benzene-d6	5.33	84	1075610	48.98	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	97.96%
36) 1,2-Dichloropropane-d6	6.32	67	326281	47.86	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	95.72%
41) Toluene-d8	7.56	98	1011304	49.35	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	98.70%
43) trans-1,3-Dichloropropene-	7.85	79	156862	50.25	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	100.50%
47) 2-Hexanone-d5	8.31	63	297684	104.08	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	104.08%
57) 1,1,2,2-Tetrachloroethane-	10.43	84	495333	47.55	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	95.10%
64) 1,2-Dichlorobenzene-d4	11.85	152	405200	47.13	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	94.26%

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	1.20	85	321547	50.091 ug/L	97
3) Chloromethane	1.33	50	333135	48.973 ug/L	98
5) Vinyl chloride	1.40	62	347393	50.075 ug/L	97
6) Bromomethane	1.61	94	231931	52.278 ug/L	99
8) Chloroethane	1.69	64	203514	48.505 ug/L	99
9) Trichlorofluoromethane	1.88	101	437509	50.283 ug/L	100
10) 1,1,2-Trichloro-1,2,2-trif	2.28	101	264020	50.278 ug/L	99
12) 1,1-Dichloroethene	2.28	96	263313	49.167 ug/L	99
13) Acetone	2.32	43	383470	101.383 ug/L	98
14) Carbon disulfide	2.47	76	812121	50.538 ug/L	99
15) Methyl Acetate	2.61	43	303157	50.154 ug/L	99
16) Methylene chloride	2.69	84	308574	49.430 ug/L	99
17) trans-1,2-Dichloroethene	2.98	96	281252	50.978 ug/L	96
18) Methyl tert-butyl Ether	2.99	73	858010	51.366 ug/L	99
19) 1,1-Dichloroethane	3.44	63	501438	50.037 ug/L	97
20) cis-1,2-Dichloroethene	4.22	96	319617	51.683 ug/L	96
22) 2-Butanone	4.26	43	484509	106.361 ug/L	99

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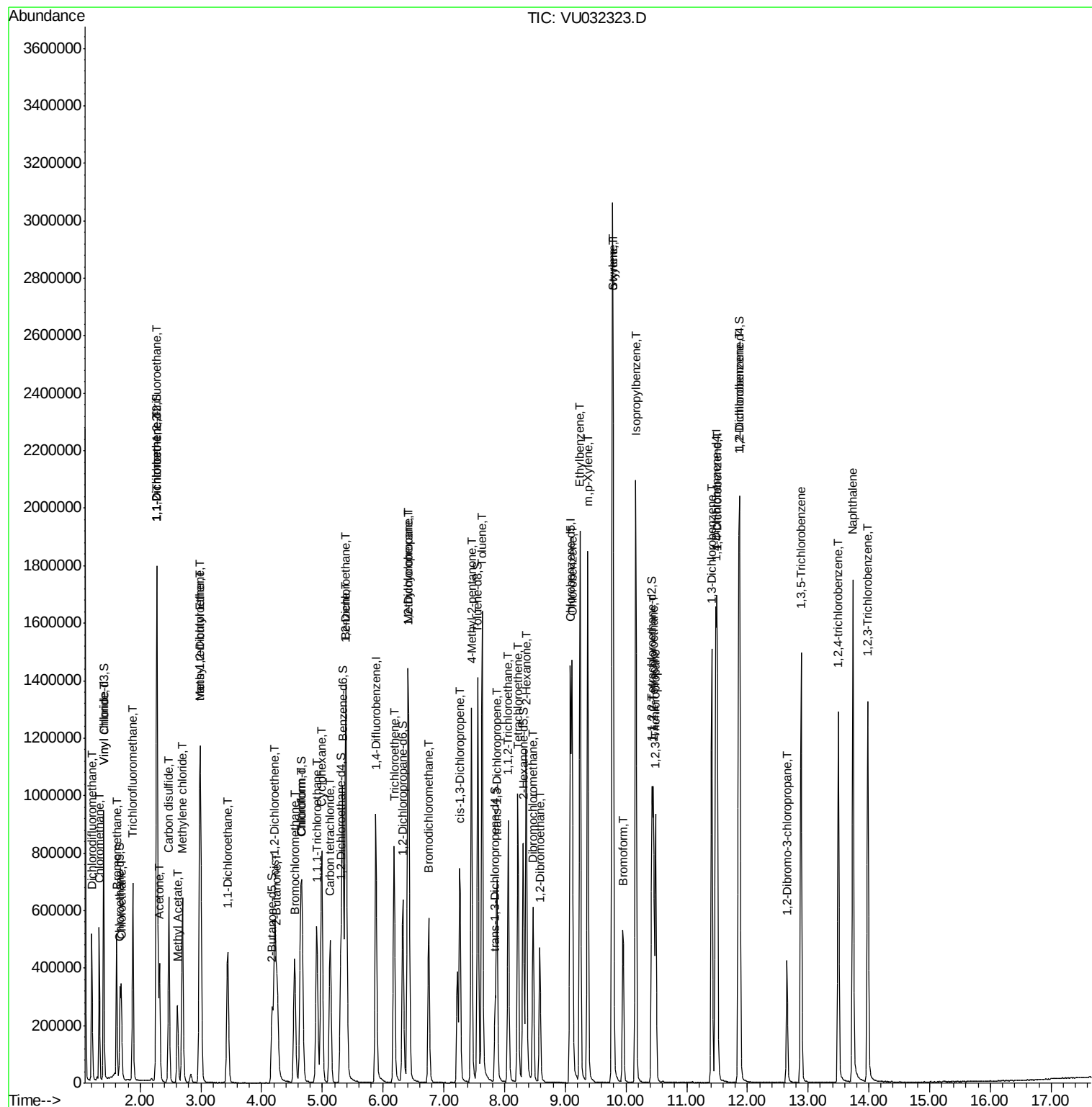
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	4.54	128	159485	48.876	ug/L	96
25) Chloroform	4.67	83	518493	49.742	ug/L	100
27) 1,2-Dichloroethane	5.40	62	384459	49.552	ug/L	99
29) Cyclohexane	4.99	56	446299	52.189	ug/L	99
30) 1,1,1-Trichloroethane	4.91	97	436010	49.711	ug/L	99
31) Carbon tetrachloride	5.13	117	373627	49.748	ug/L	99
33) Benzene	5.38	78	1161304	49.560	ug/L	100
34) Trichloroethene	6.18	95	310826	51.343	ug/L	99
35) Methylcyclohexane	6.41	83	470320	51.131	ug/L	99
37) 1,2-Dichloropropane	6.43	63	295273	48.245	ug/L	99
38) Bromodichloromethane	6.75	83	388829	49.436	ug/L	99
39) cis-1,3-Dichloropropene	7.26	75	473129	52.303	ug/L	100
40) 4-Methyl-2-pentanone	7.45	43	830784	104.069	ug/L	99
42) Toluene	7.63	91	1296594	50.825	ug/L	99
44) trans-1,3-Dichloropropene	7.87	75	417521	52.700	ug/L	99
45) 1,1,2-Trichloroethane	8.06	97	296794	49.596	ug/L	98
46) Tetrachloroethene	8.22	164	242778	49.363	ug/L	99
48) 2-Hexanone	8.36	43	710889	109.157	ug/L	99
49) Dibromochloromethane	8.47	129	321131	49.546	ug/L	99
50) 1,2-Dibromoethane	8.58	107	318699	50.488	ug/L	99
51) Chlorobenzene	9.12	112	822644	50.015	ug/L	99
52) Ethylbenzene	9.24	91	1410339	51.785	ug/L	99
53) m,p-Xylene	9.37	106	553857	52.857	ug/L	100
54) o-xylene	9.77	106	546875	52.001	ug/L	97
55) Styrene	9.79	104	949881	53.839	ug/L	99
56) Isopropylbenzene	10.16	105	1401879	52.532	ug/L	100
58) 1,1,2,2-Tetrachloroethane	10.45	83	504174	48.793	ug/L	97
59) 1,2,3-Trichloropropane	10.49	75	397362	48.945	ug/L	99
61) Bromoform	9.95	173	252348	46.987	ug/L	99
62) 1,3-Dichlorobenzene	11.41	146	646225	50.030	ug/L	99
63) 1,4-Dichlorobenzene	11.50	146	674187	50.569	ug/L	99
65) 1,2-Dichlorobenzene	11.87	146	679072	49.941	ug/L	98
66) 1,2-Dibromo-3-chloropropan	12.65	75	113296	50.850	ug/L	94
67) 1,3,5-Trichlorobenzene	12.88	180	504872	52.398	ug/L	98
68) 1,2,4-trichlorobenzene	13.50	180	431995	58.344	ug/L	98
69) Naphthalene	13.74	128	1481207	66.819	ug/L	99
70) 1,2,3-Trichlorobenzene	13.98	180	469612	58.639	ug/L	97

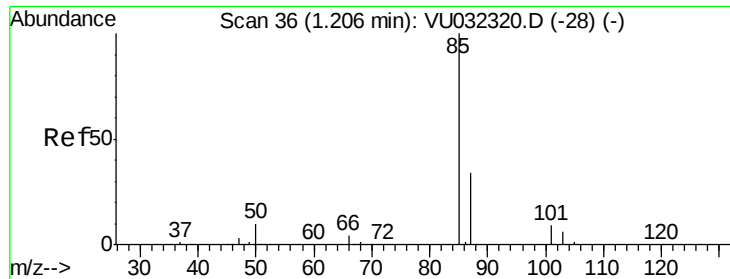
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#2

Dichlorodifluoromethane

Concen: 50.091 ug/L

RT: 1.20 min Scan# 35

Delta R.T. -0.00 min

Lab File: VU032323.D

Acq: 28 May 2019 12:59

Instrument :

MSVOA_U

ClientSampleId :

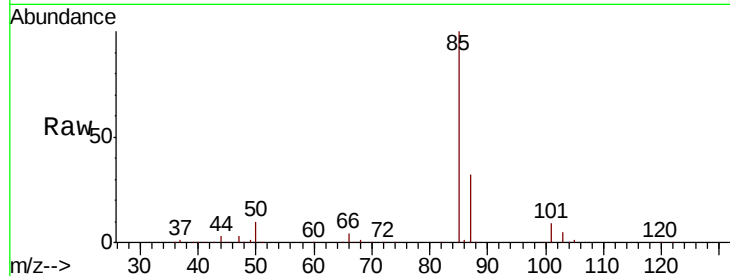
VICV58

Tgt Ion: 85 Resp: 321547

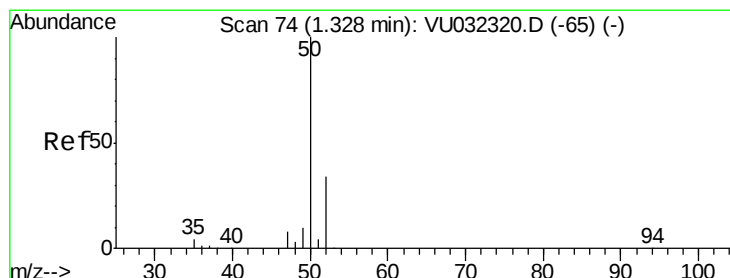
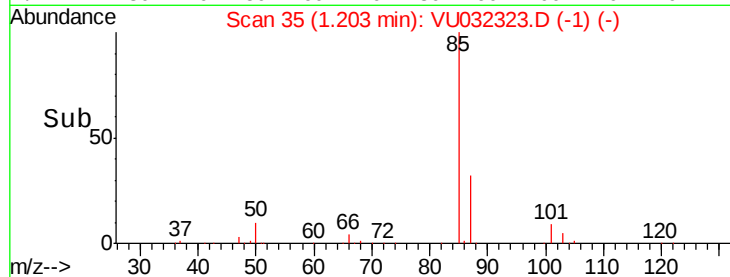
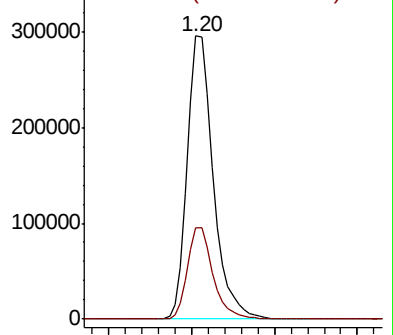
Ion Ratio Lower Upper

85 100

87 31.9 26.7 40.1



Abundance Ion 85.00 (84.70 to 85.70): VU032323.D (-1) (-)



#3

Chloromethane

Concen: 48.973 ug/L

RT: 1.33 min Scan# 74

Delta R.T. 0.00 min

Lab File: VU032323.D

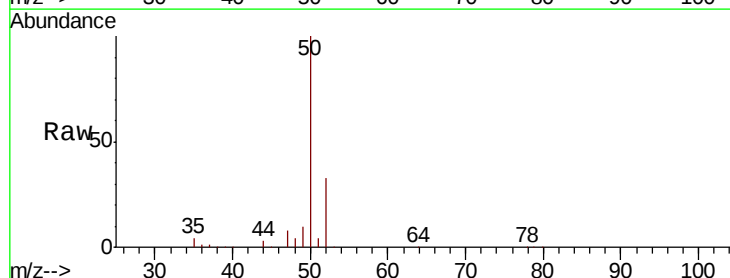
Acq: 28 May 2019 12:59

Tgt Ion: 50 Resp: 333135

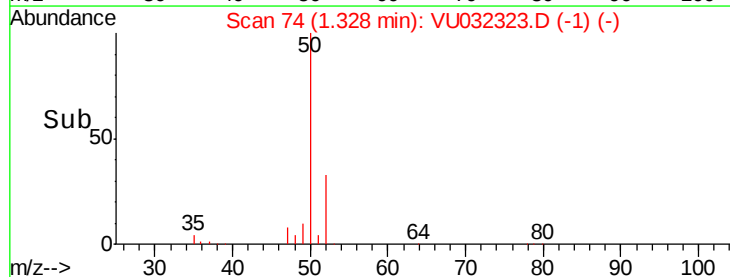
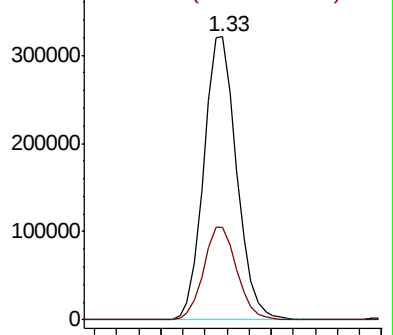
Ion Ratio Lower Upper

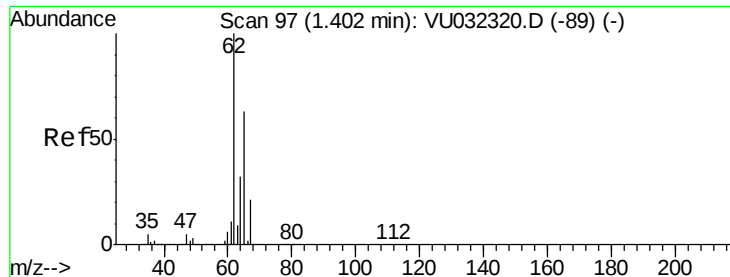
50 100

52 32.7 23.6 43.8



Abundance Ion 50.00 (49.70 to 50.70): VU032323.D (-1) (-)





#5

Vinyl chloride

Concen: 50.075 ug/L

RT: 1.40 min Scan# 97

Delta R.T. 0.00 min

Lab File: VU032323.D

Acq: 28 May 2019 12:59

Instrument :

MSVOA_U

ClientSampleId :

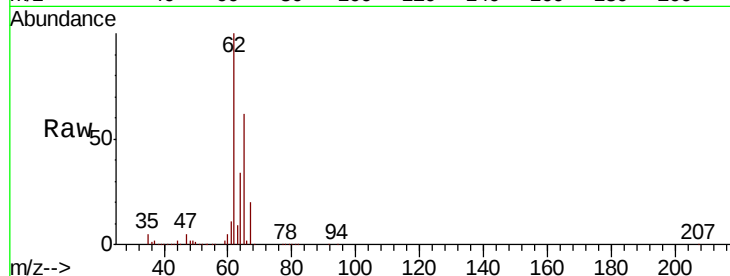
VICV58

Tgt Ion: 62 Resp: 347393

Ion Ratio Lower Upper

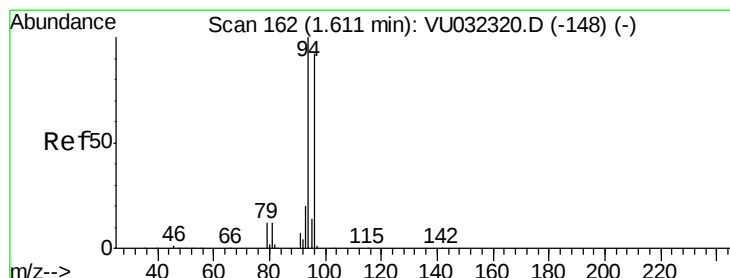
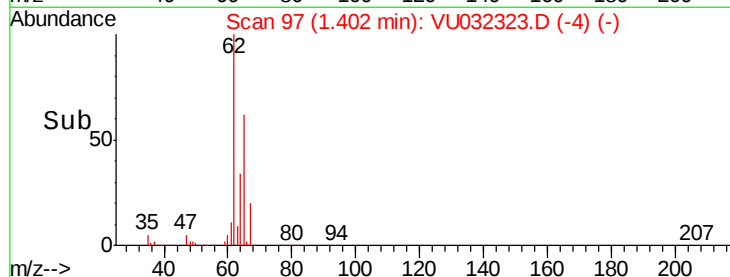
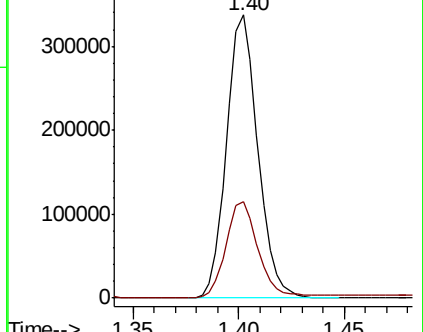
62 100

64 34.2 22.7 42.1



Abundance Ion 62.00 (61.70 to 62.70): VU032323.D (-89) (-)

Ion 64.00 (63.70 to 64.70): VU032323.D (-89) (-)



#6

Bromomethane

Concen: 52.278 ug/L

RT: 1.61 min Scan# 162

Delta R.T. 0.00 min

Lab File: VU032323.D

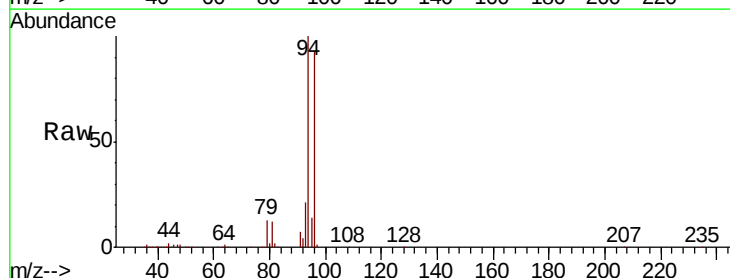
Acq: 28 May 2019 12:59

Tgt Ion: 94 Resp: 231931

Ion Ratio Lower Upper

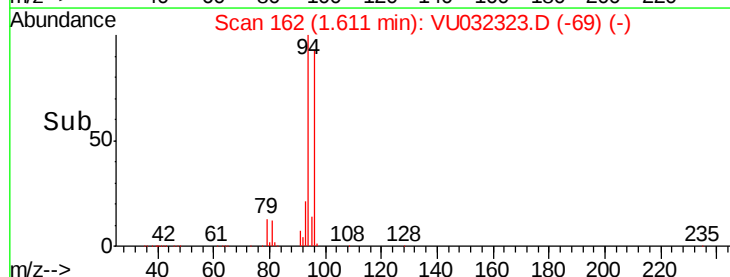
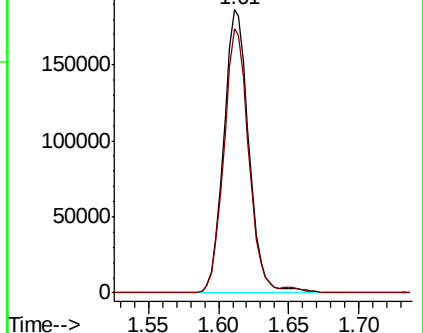
94 100

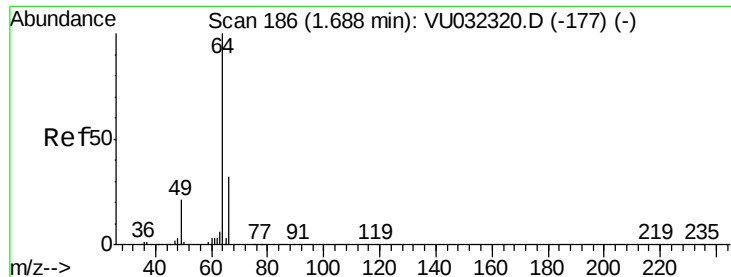
96 93.3 64.5 119.9



Abundance Ion 94.00 (93.70 to 94.70): VU032323.D (-148) (-)

Ion 96.00 (95.70 to 96.70): VU032323.D (-148) (-)





#8

Chloroethane

Concen: 48.505 ug/L

RT: 1.69 min Scan# 186

Delta R.T. 0.00 min

Lab File: VU032323.D

Acq: 28 May 2019 12:59

Instrument :

MSVOA_U

ClientSampleId :

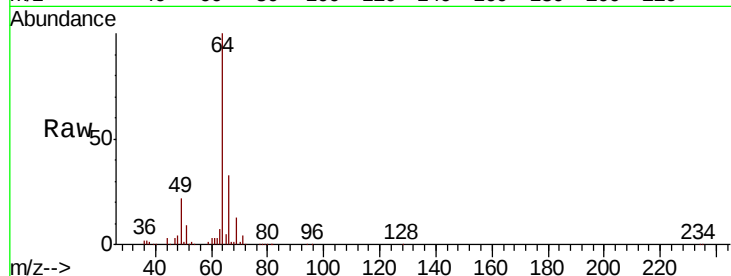
VICV58

Tgt Ion: 64 Resp: 203514

Ion Ratio Lower Upper

64 100

66 32.7 22.4 41.6



Abundance Ion 64.00 (63.70 to 64.70): VU032323.D (-177) (-)

Ion 66.00 (65.70 to 66.70): VU032323.D (-177) (-)

1.69

150000

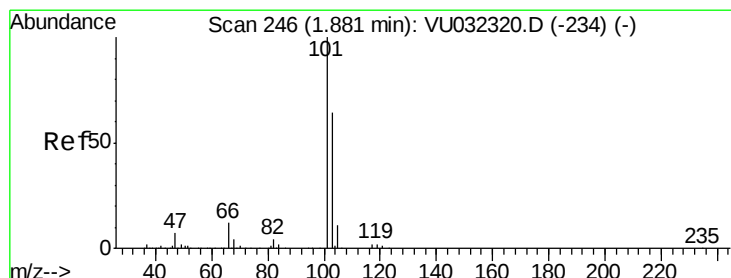
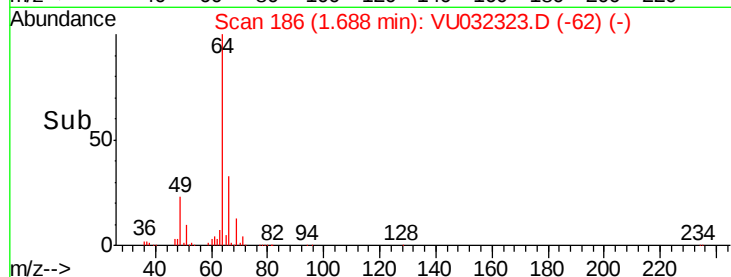
100000

50000

0

1.60 1.65 1.70 1.75 1.80

Time-->



#9

Trichlorofluoromethane

Concen: 50.283 ug/L

RT: 1.88 min Scan# 246

Delta R.T. 0.00 min

Lab File: VU032323.D

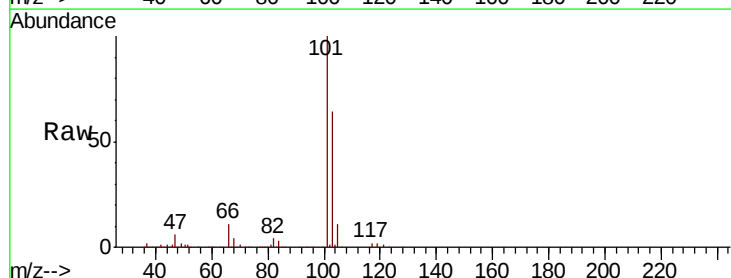
Acq: 28 May 2019 12:59

Tgt Ion: 101 Resp: 437509

Ion Ratio Lower Upper

101 100

103 64.7 51.7 77.5



Abundance Ion 101.00 (100.70 to 101.70): VU032323.D (-234) (-)

Ion 103.00 (102.70 to 103.70): VU032323.D (-234) (-)

1.88

300000

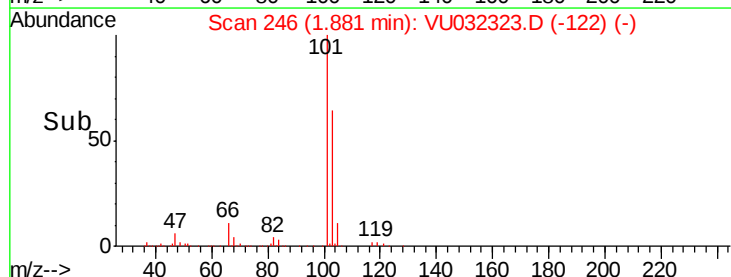
200000

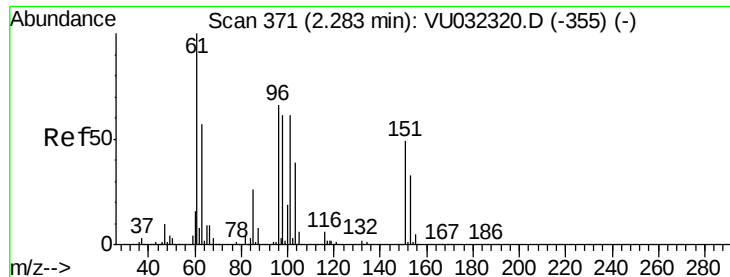
100000

0

1.80 1.85 1.90 1.95

Time-->





#10

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

Concen: 50.278 ug/L

RT: 2.28 min Scan# 370

Delta R.T. -0.00 min

Lab File: VU032323.D

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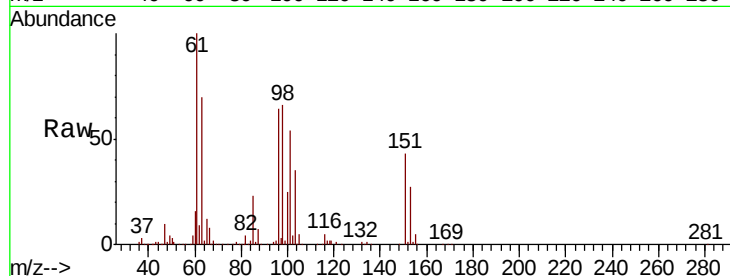
Tgt Ion:101 Resp: 264020

Ion Ratio Lower Upper

101 100

85 41.2 33.4 50.0

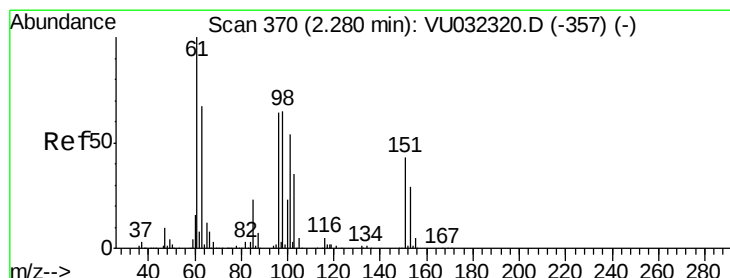
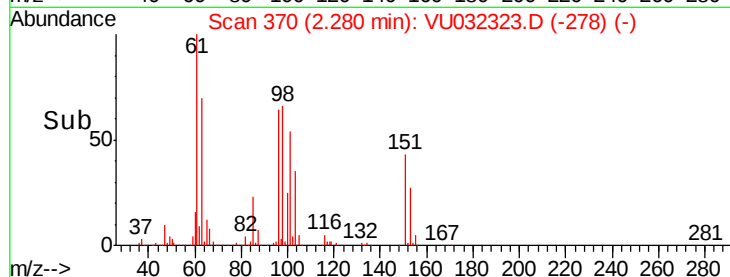
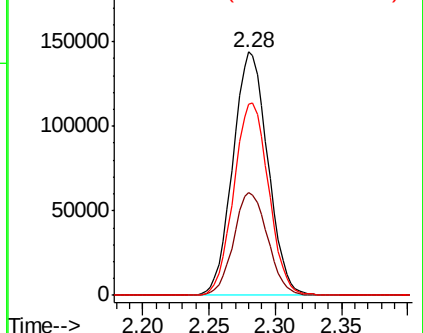
151 78.7 63.7 95.5



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VU0

Ion 151.00 (150.70 to 151.70): V



#12

1,1-Dichloroethene

Concen: 49.167 ug/L

RT: 2.28 min Scan# 370

Delta R.T. 0.00 min

Lab File: VU032323.D

Acq: 28 May 2019 12:59

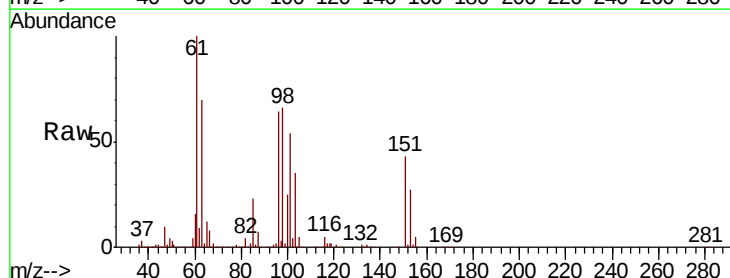
Tgt Ion: 96 Resp: 263313

Ion Ratio Lower Upper

96 100

61 156.9 109.8 203.8

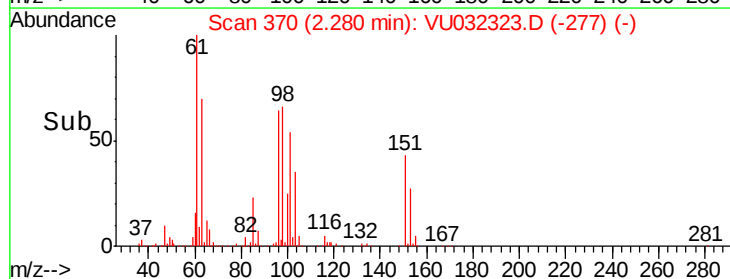
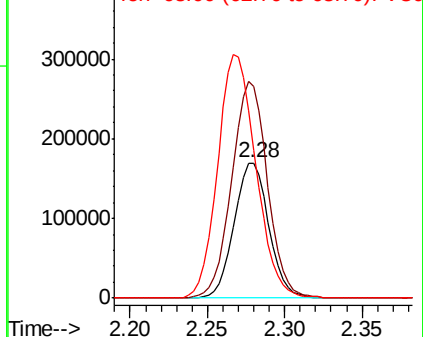
63 109.7 74.4 138.2

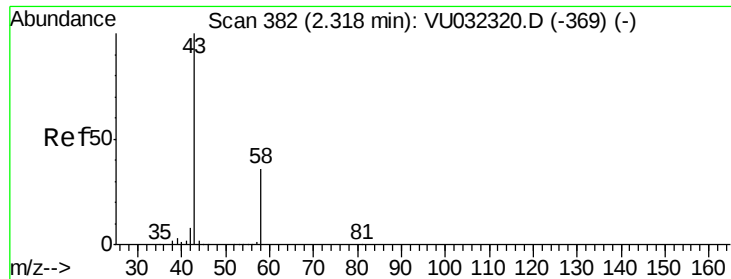


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 101.383 ug/L

RT: 2.32 min Scan# 382

Delta R.T. 0.00 min

Lab File: VU032323.D

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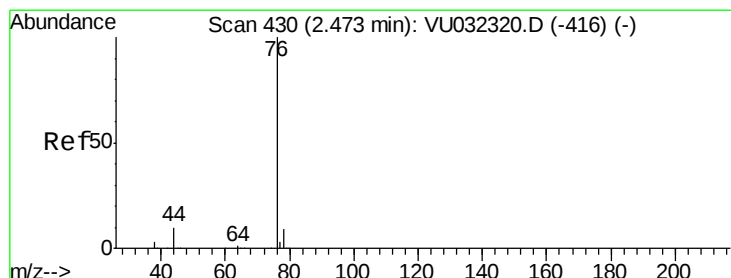
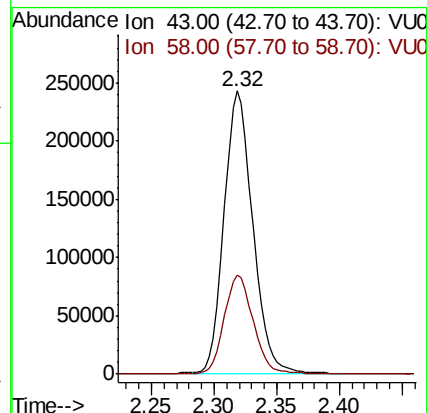
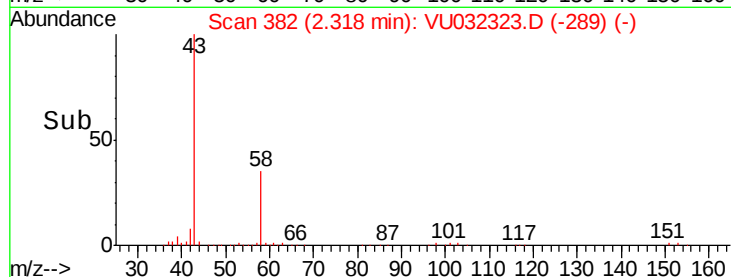
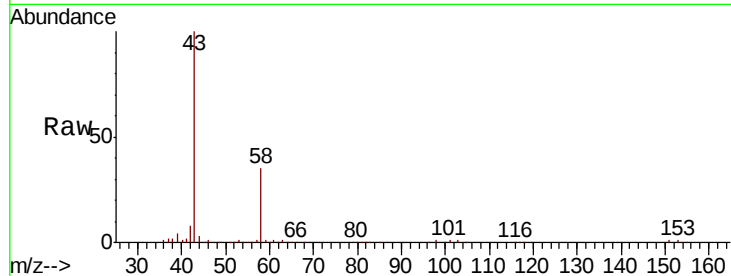
VICV58

Tgt Ion: 43 Resp: 383470

Ion Ratio Lower Upper

43 100

58 35.3 0.0 73.6



#14

Carbon disulfide

Concen: 50.538 ug/L

RT: 2.47 min Scan# 430

Delta R.T. 0.00 min

Lab File: VU032323.D

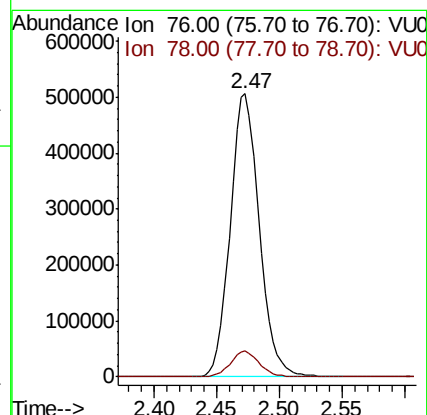
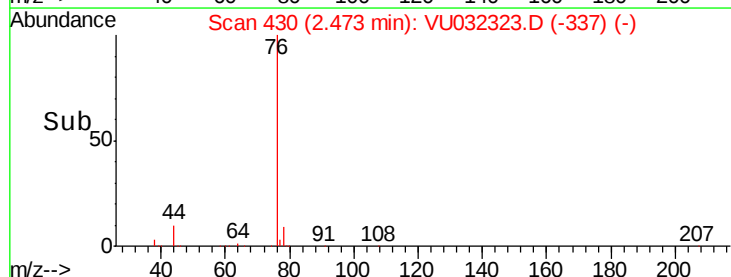
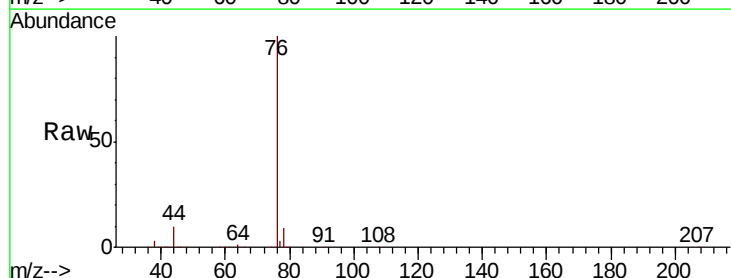
Acq: 28 May 2019 12:59

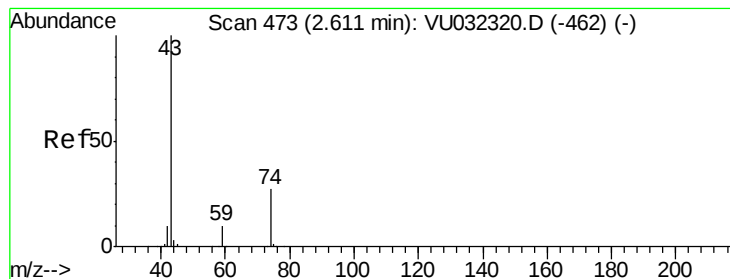
Tgt Ion: 76 Resp: 812121

Ion Ratio Lower Upper

76 100

78 9.1 7.0 10.6





#15

Methyl Acetate

Concen: 50.154 ug/L

RT: 2.61 min Scan# 474

Delta R.T. 0.00 min

Lab File: VU032323.D

Acq: 28 May 2019 12:59

Instrument :

MSVOA_U

ClientSampleId :

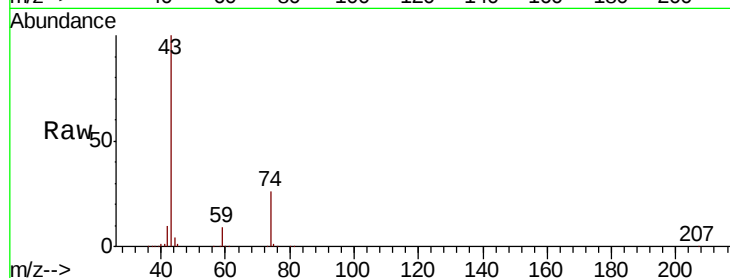
VICV58

Tgt Ion: 43 Resp: 303157

Ion Ratio Lower Upper

43 100

74 25.9 21.1 31.7



Abundance Ion 43.00 (42.70 to 43.70): VU032323.D (-462) (-)

Ion 74.00 (73.70 to 74.70): VU032323.D (-462) (-)

200000

150000

100000

50000

0

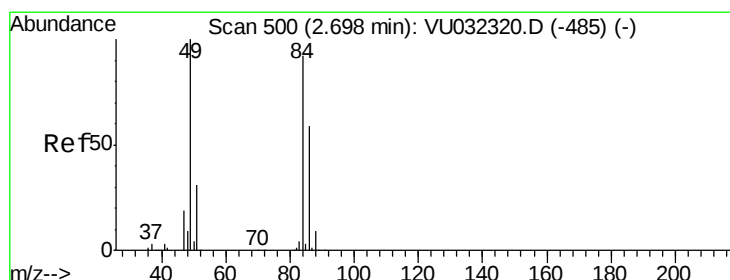
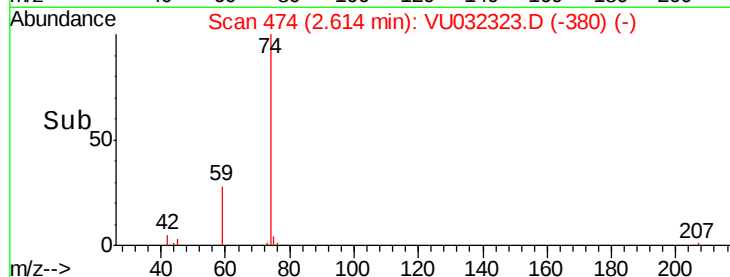
2.55

2.60

2.65

2.70

Time-->



#16

Methylene chloride

Concen: 49.430 ug/L

RT: 2.69 min Scan# 499

Delta R.T. -0.00 min

Lab File: VU032323.D

Acq: 28 May 2019 12:59

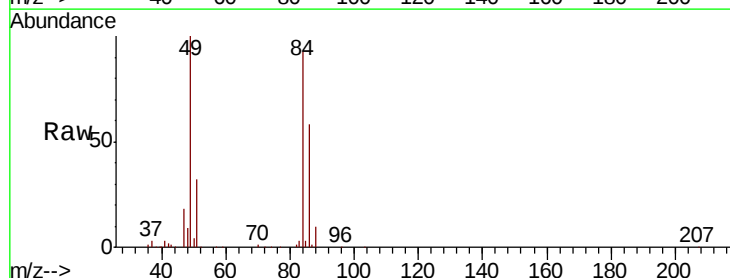
Tgt Ion: 84 Resp: 308574

Ion Ratio Lower Upper

84 100

86 62.8 45.0 83.6

49 107.5 75.9 140.9



Abundance Ion 84.00 (83.70 to 84.70): VU032323.D (-485) (-)

Ion 86.00 (85.70 to 86.70): VU032323.D (-485) (-)

Ion 49.00 (48.70 to 49.70): VU032323.D (-485) (-)

250000

200000

150000

100000

50000

0

2.60

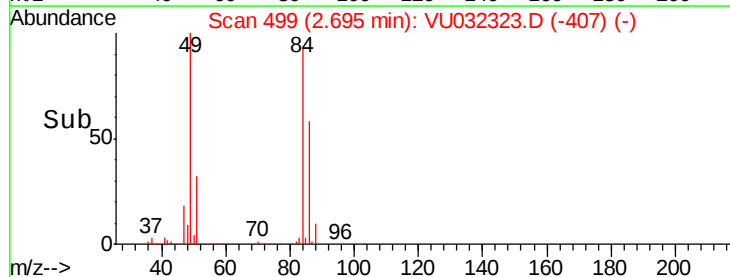
2.65

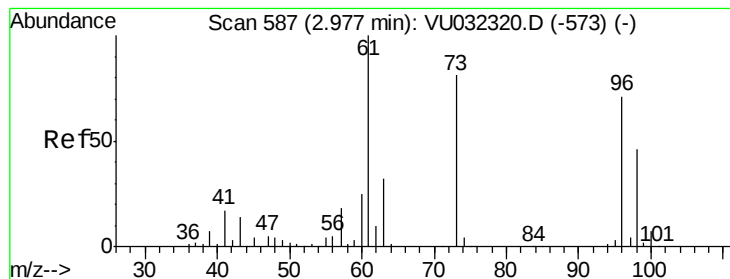
2.70

2.75

2.80

Time-->





#17

trans-1,2-Dichloroethene

Concen: 50.978 ug/L

RT: 2.98 min Scan# 587

Delta R.T. 0.00 min

Lab File: VU032323.D

Acq: 28 May 2019 12:59

Instrument :

MSVOA_U

ClientSampled :

VICV58

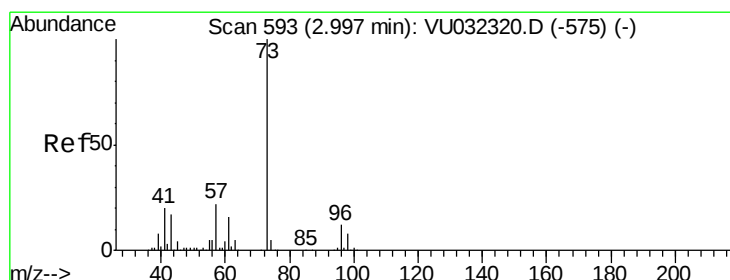
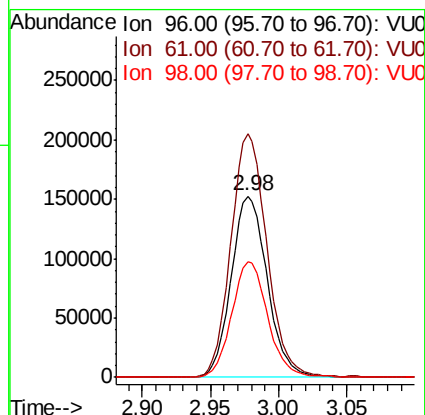
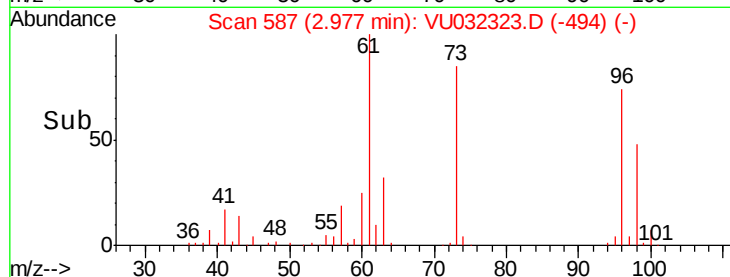
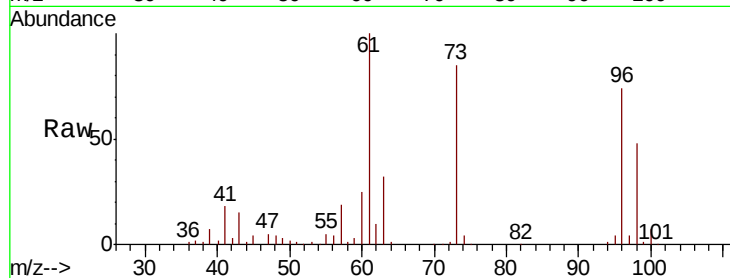
Tgt Ion: 96 Resp: 281252

Ion Ratio Lower Upper

96 100

61 134.4 98.2 182.4

98 63.9 45.5 84.5



#18

Methyl tert-butyl Ether

Concen: 51.366 ug/L

RT: 2.99 min Scan# 592

Delta R.T. -0.00 min

Lab File: VU032323.D

Acq: 28 May 2019 12:59

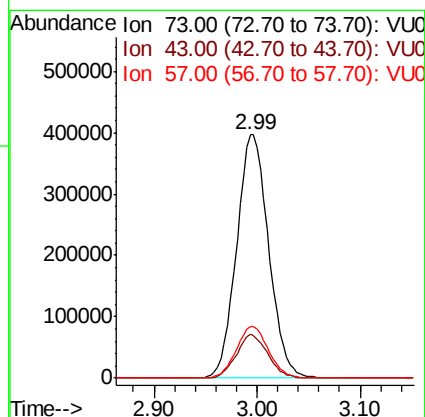
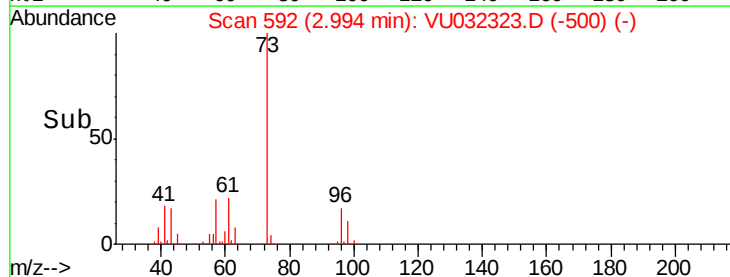
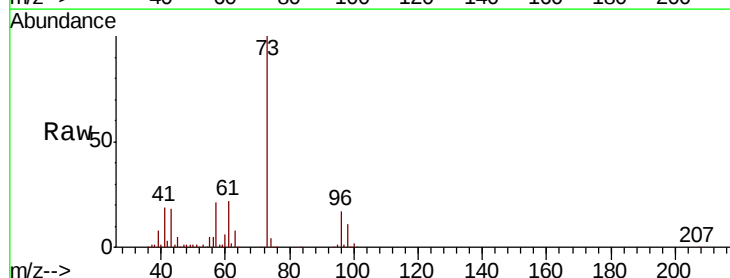
Tgt Ion: 73 Resp: 858010

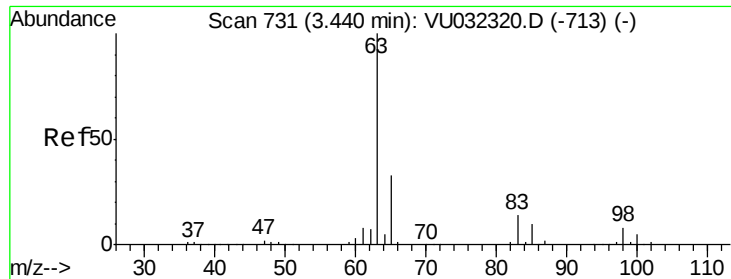
Ion Ratio Lower Upper

73 100

43 17.5 13.7 20.5

57 21.4 17.2 25.8

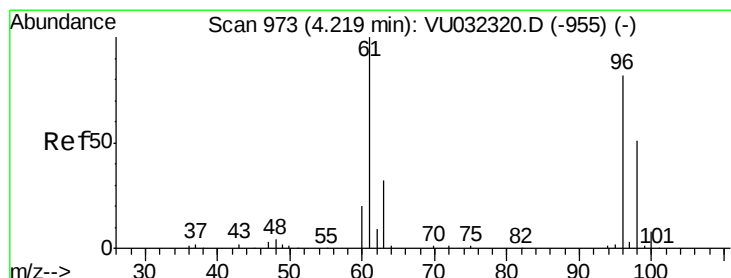
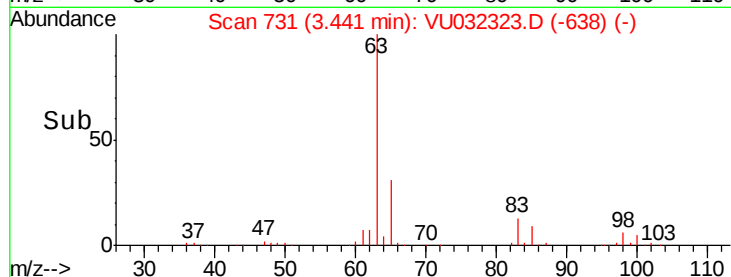
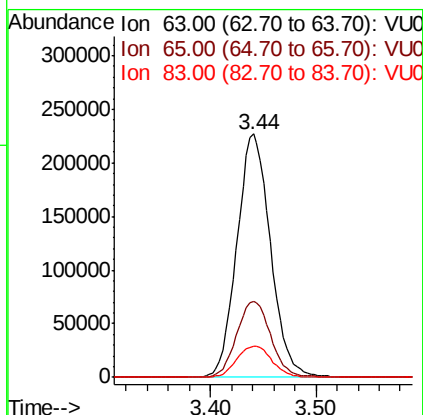
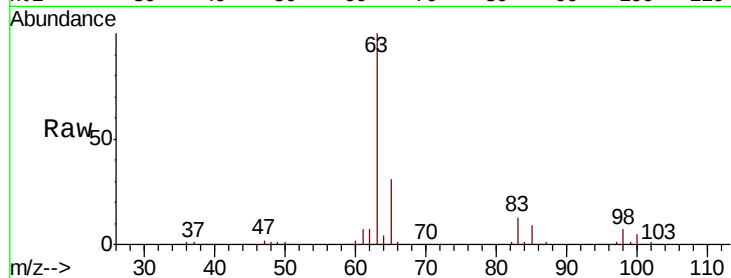




#19
 1,1-Dichloroethane
 Concen: 50.037 ug/L
 RT: 3.44 min Scan# 731
 Delta R.T. 0.00 min
 Lab File: VU032323.D
 Acq: 28 May 2019 12:59

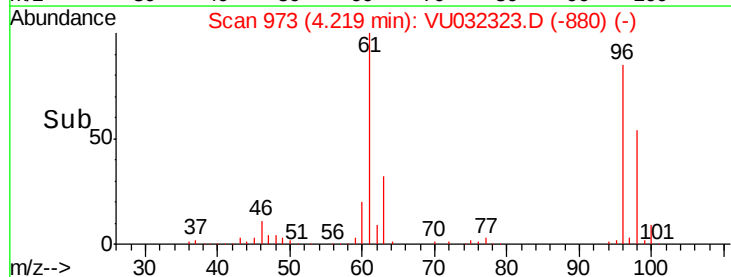
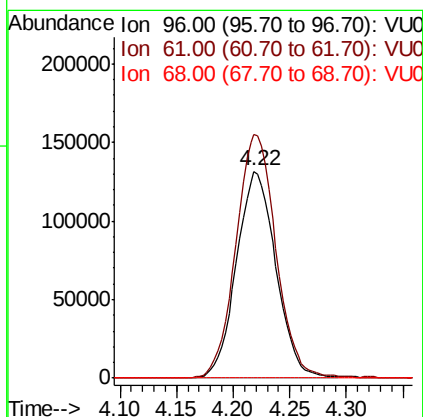
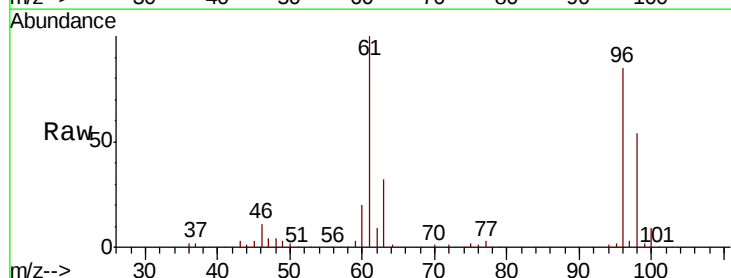
Instrument :
 MSVOA_U
 ClientSampleId :
 VICV58

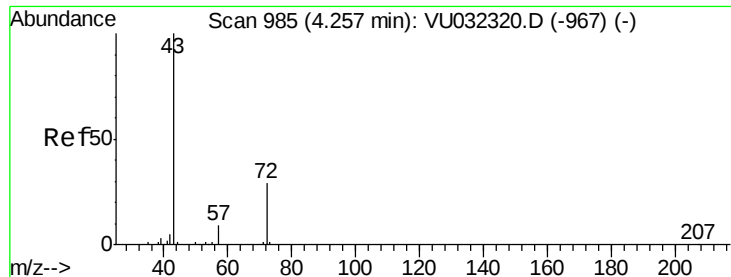
Tgt Ion: 63 Resp: 501438
 Ion Ratio Lower Upper
 63 100
 65 31.2 23.2 43.0
 83 12.9 9.9 18.5



#20
 cis-1,2-Dichloroethene
 Concen: 51.683 ug/L
 RT: 4.22 min Scan# 973
 Delta R.T. 0.00 min
 Lab File: VU032323.D
 Acq: 28 May 2019 12:59

Tgt Ion: 96 Resp: 319617
 Ion Ratio Lower Upper
 96 100
 61 117.7 85.6 159.0
 68 0.0 0.0 0.0





#22

2-Butanone

Concen: 106.361 ug/L

RT: 4.26 min Scan# 985

Delta R.T. 0.00 min

Lab File: VU032323.D

Acq: 28 May 2019 12:59

Instrument :

MSVOA_U

ClientSampleId :

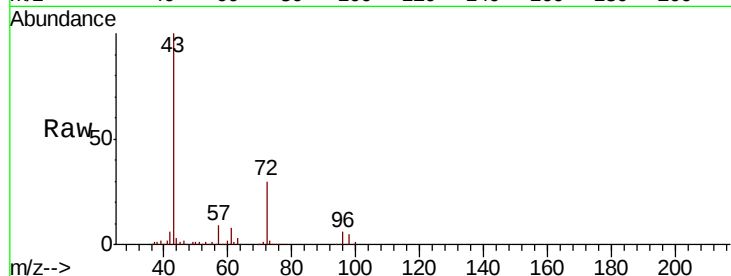
VICV58

Tgt Ion: 43 Resp: 484509

Ion Ratio Lower Upper

43 100

72 30.0 15.3 45.8



Abundance Ion 43.00 (42.70 to 43.70): VU032323.D (-967) (-)

Ion 72.00 (71.70 to 72.70): VU032323.D (-967) (-)

4.26

200000

150000

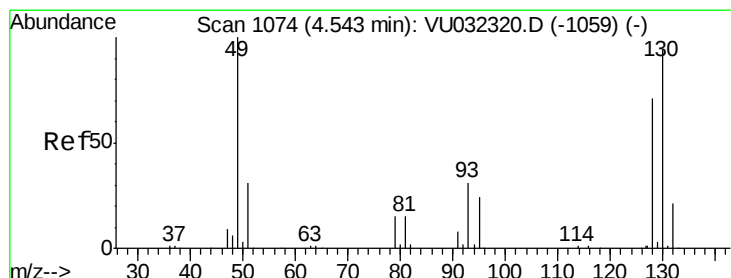
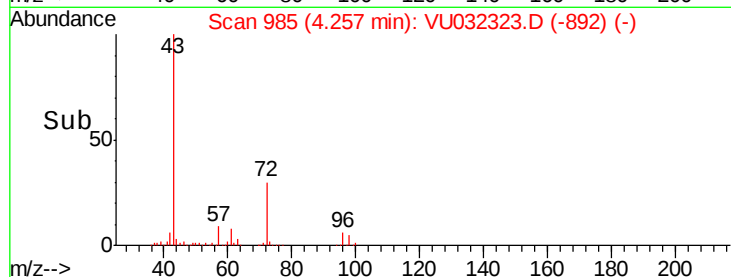
100000

50000

0

4.20 4.30 4.40

Time-->



#23

Bromochloromethane

Concen: 48.876 ug/L

RT: 4.54 min Scan# 1074

Delta R.T. 0.00 min

Lab File: VU032323.D

Acq: 28 May 2019 12:59

Tgt Ion: 128 Resp: 159485

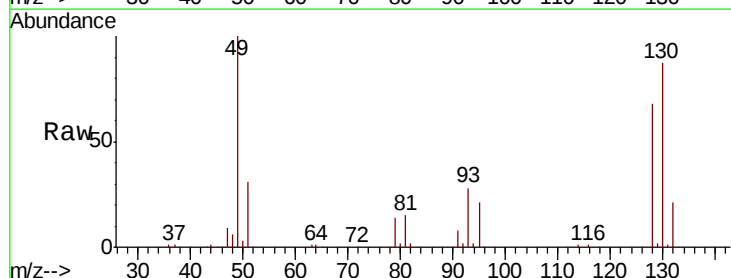
Ion Ratio Lower Upper

128 100

49 147.3 98.8 183.6

130 128.4 92.3 171.5

51 45.7 35.0 52.6



Abundance Ion 128.00 (127.70 to 128.70): VU032323.D (-1059) (-)

Ion 49.00 (48.70 to 49.70): VU032323.D (-1059) (-)

Ion 130.00 (129.70 to 130.70): VU032323.D (-1059) (-)

Ion 51.00 (50.70 to 51.70): VU032323.D (-1059) (-)

150000

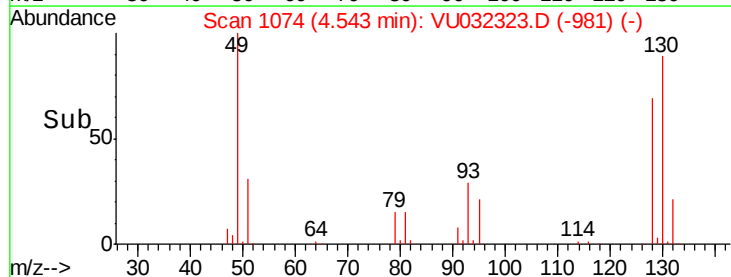
100000

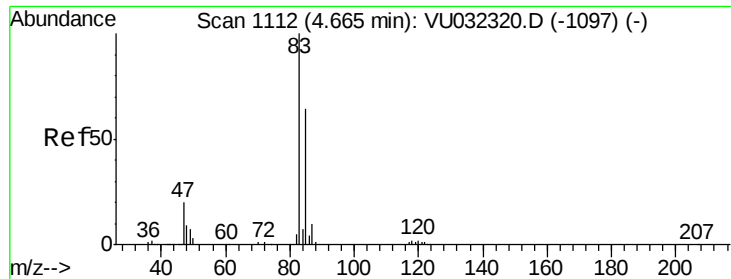
50000

0

4.45 4.50 4.55 4.60 4.65

Time-->

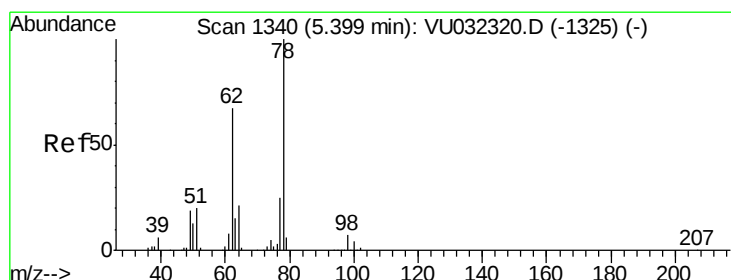
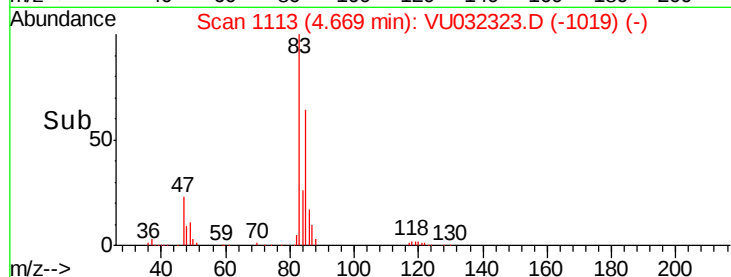
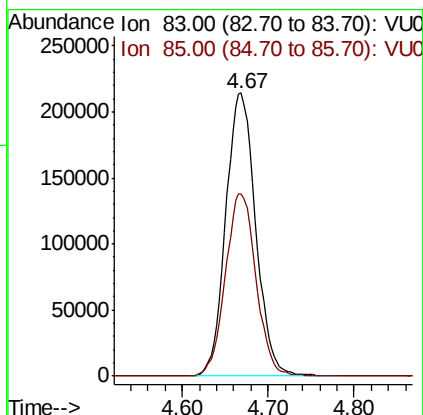
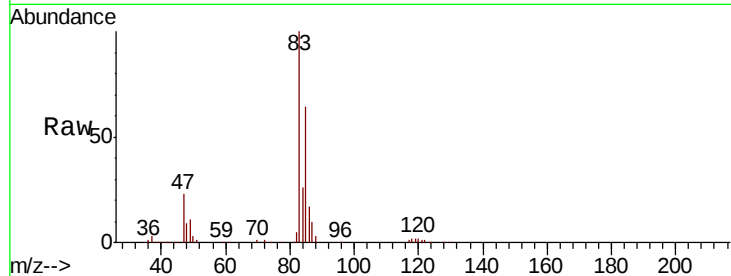




#25
Chloroform
Concen: 49.742 ug/L
RT: 4.67 min Scan# 1113
Delta R.T. 0.00 min
Lab File: VU032323.D
Acq: 28 May 2019 12:59

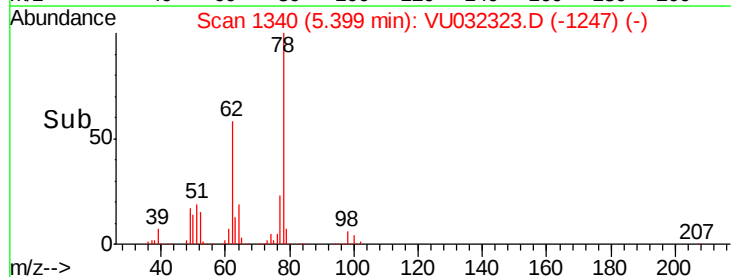
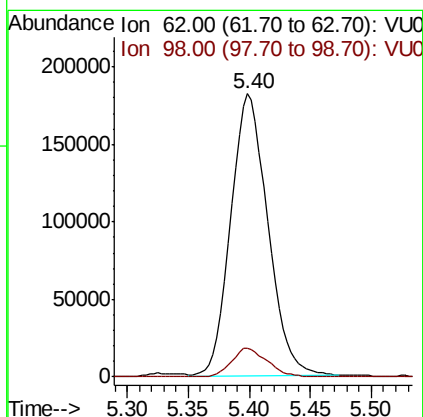
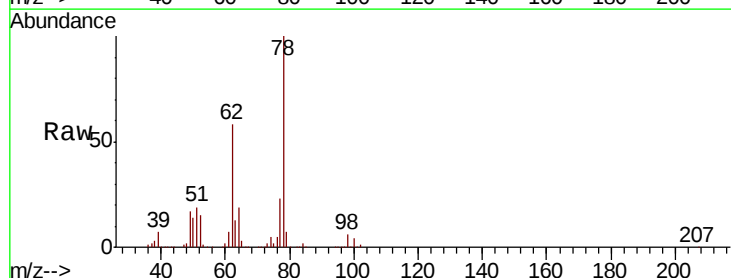
Instrument :
MSVOA_U
ClientSampleId :
VICV58

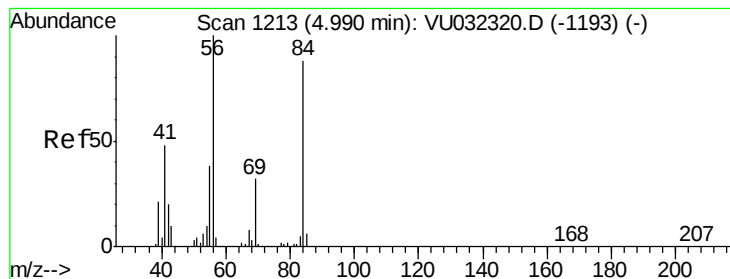
Tgt Ion: 83 Resp: 518493
Ion Ratio Lower Upper
83 100
85 64.4 45.1 83.9



#27
1,2-Dichloroethane
Concen: 49.552 ug/L
RT: 5.40 min Scan# 1340
Delta R.T. 0.00 min
Lab File: VU032323.D
Acq: 28 May 2019 12:59

Tgt Ion: 62 Resp: 384459
Ion Ratio Lower Upper
62 100
98 10.3 8.4 12.6





#29

Cyclohexane

Concen: 52.189 ug/L

RT: 4.99 min Scan# 1213

Delta R.T. 0.00 min

Lab File: VU032323.D

Acq: 28 May 2019 12:59

Instrument :

MSVOA_U

ClientSampleId :

VICV58

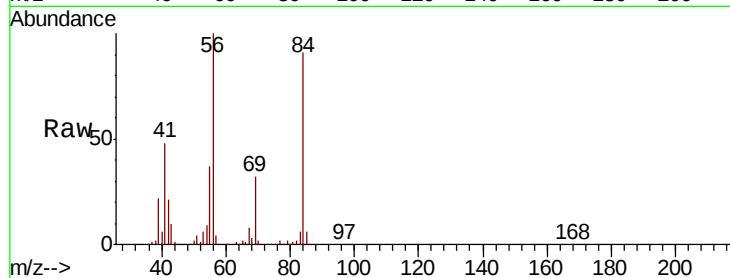
Tgt Ion: 56 Resp: 446299

Ion Ratio Lower Upper

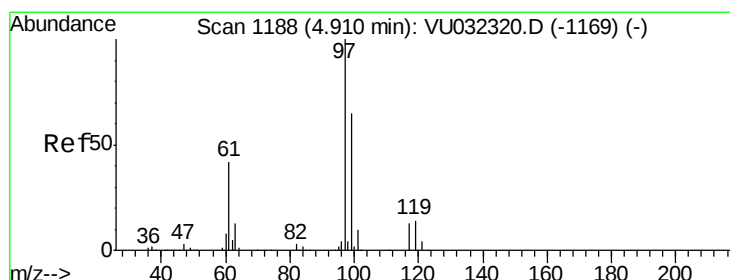
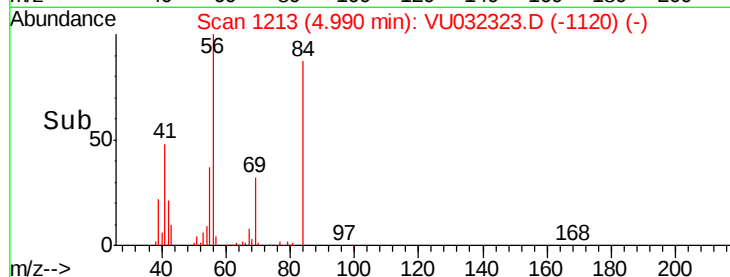
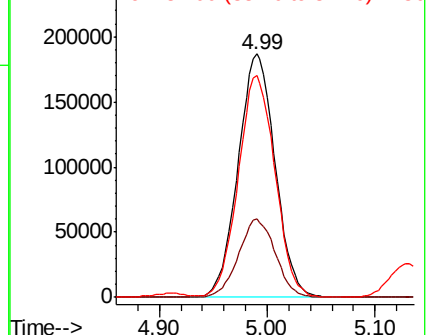
56 100

69 31.9 25.6 38.4

84 90.7 71.4 107.2



Abundance Ion 56.00 (55.70 to 56.70): VU0
Ion 69.00 (68.70 to 69.70): VU0
Ion 84.00 (83.70 to 84.70): VU0



#30

1,1,1-Trichloroethane

Concen: 49.711 ug/L

RT: 4.91 min Scan# 1188

Delta R.T. 0.00 min

Lab File: VU032323.D

Acq: 28 May 2019 12:59

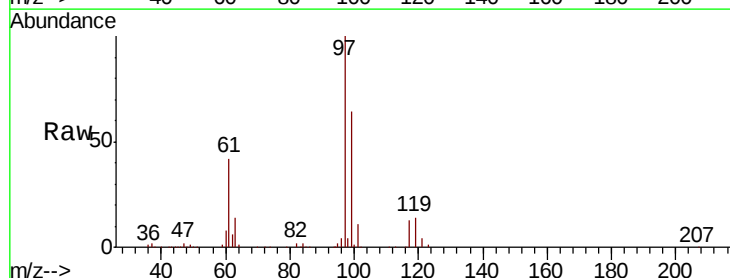
Tgt Ion: 97 Resp: 436010

Ion Ratio Lower Upper

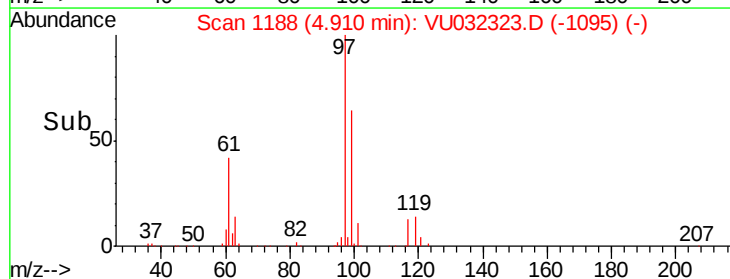
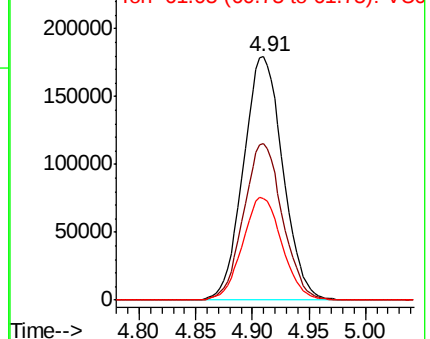
97 100

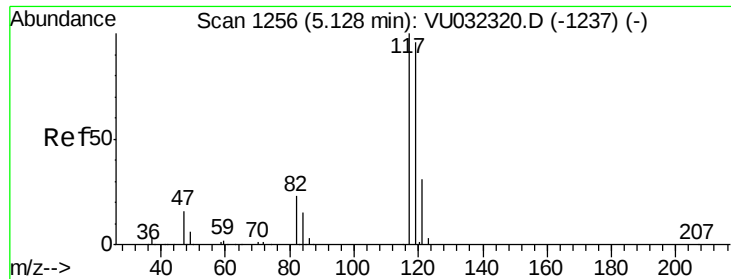
99 63.5 51.4 77.0

61 42.3 33.7 50.5



Abundance Ion 97.00 (96.70 to 97.70): VU0
Ion 99.00 (98.70 to 99.70): VU0
Ion 61.05 (60.75 to 61.75): VU0

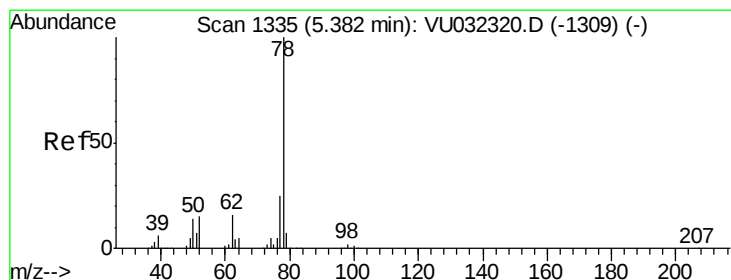
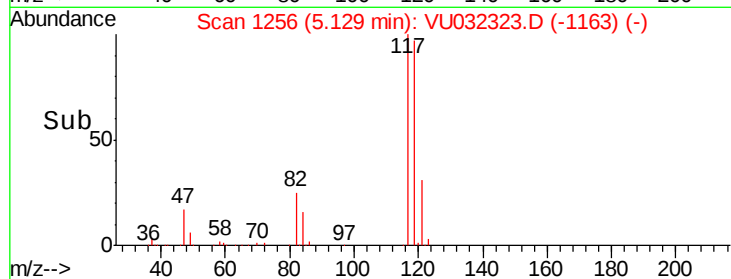
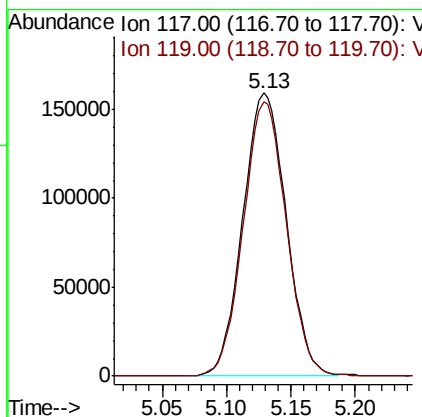
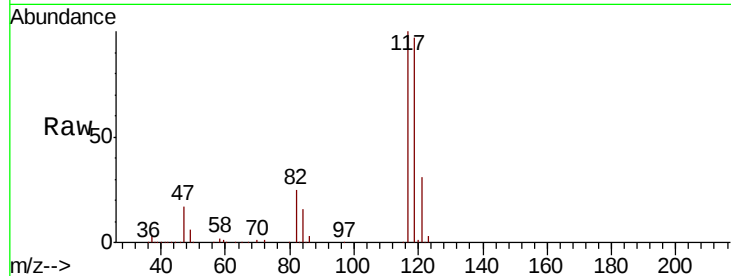




#31
 Carbon tetrachloride
 Concen: 49.748 ug/L
 RT: 5.13 min Scan# 1256
 Delta R.T. 0.00 min
 Lab File: VU032323.D
 Acq: 28 May 2019 12:59

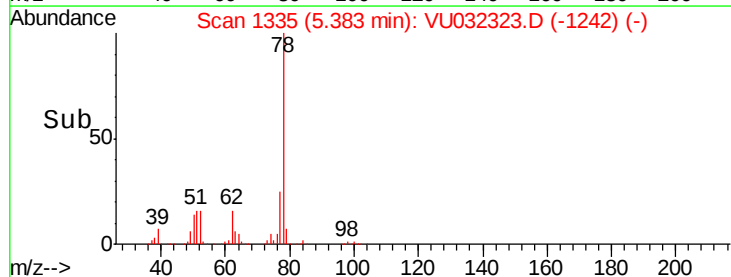
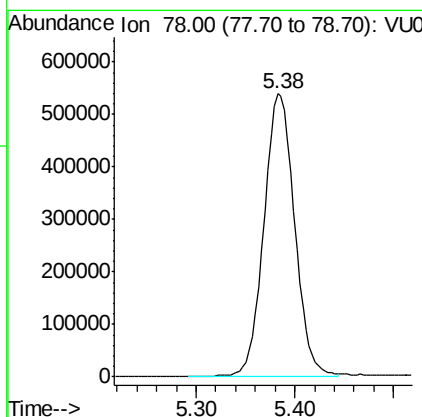
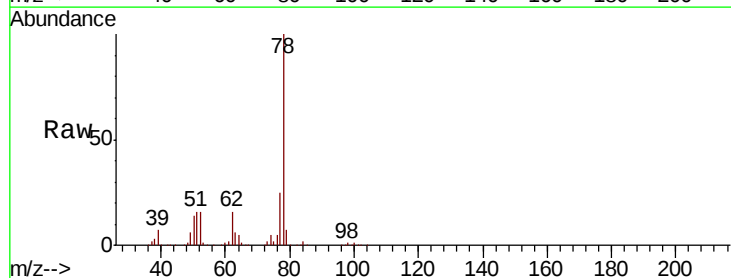
Instrument :
 MSVOA_U
 ClientSampleId :
 VICV58

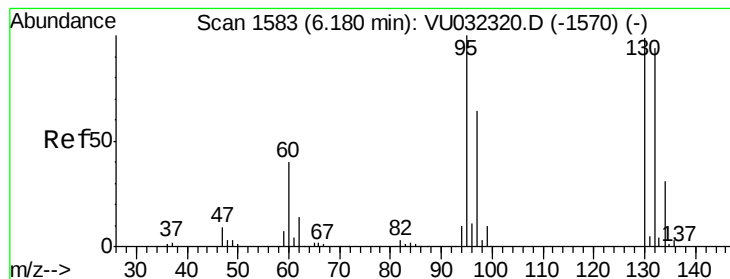
Tgt Ion:117 Resp: 373627
 Ion Ratio Lower Upper
 117 100
 119 96.0 77.4 116.0



#33
 Benzene
 Concen: 49.560 ug/L
 RT: 5.38 min Scan# 1335
 Delta R.T. 0.00 min
 Lab File: VU032323.D
 Acq: 28 May 2019 12:59

Tgt Ion: 78 Resp: 1161304





#34

Trichloroethene

Concen: 51.343 ug/L

RT: 6.18 min Scan# 1583

Delta R.T. 0.00 min

Lab File: VU032323.D

Acq: 28 May 2019 12:59

Instrument :

MSVOA_U

ClientSampleId :

VICV58

Tgt Ion: 95 Resp: 310826

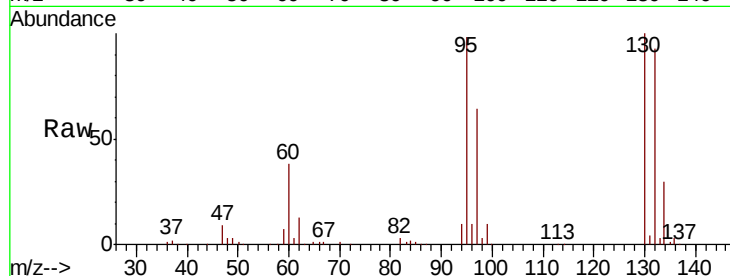
Ion Ratio Lower Upper

95 100

97 65.1 44.8 83.2

132 94.1 66.2 123.0

130 101.5 69.4 128.8



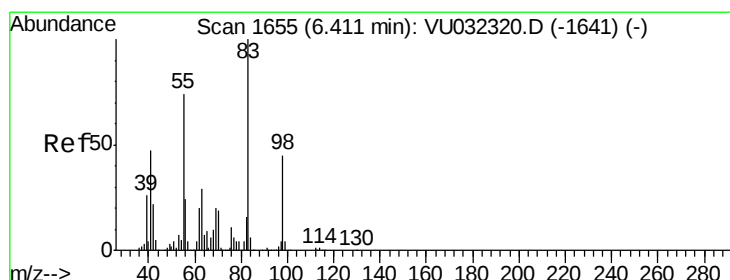
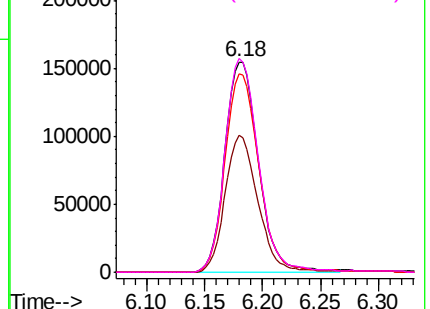
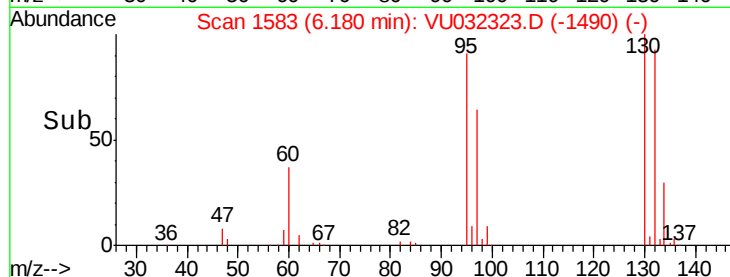
Abundance

Ion 95.00 (94.70 to 95.70): VU0

Ion 97.00 (96.70 to 97.70): VU0

Ion 132.00 (131.70 to 132.70): V

Ion 130.00 (129.70 to 130.70): V



#35

Methylcyclohexane

Concen: 51.131 ug/L

RT: 6.41 min Scan# 1655

Delta R.T. 0.00 min

Lab File: VU032323.D

Acq: 28 May 2019 12:59

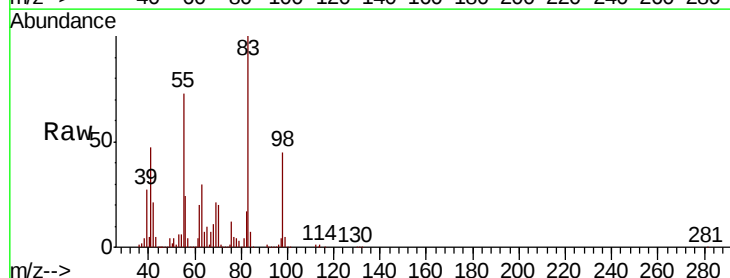
Tgt Ion: 83 Resp: 470320

Ion Ratio Lower Upper

83 100

55 74.9 59.4 89.0

98 46.6 37.1 55.7

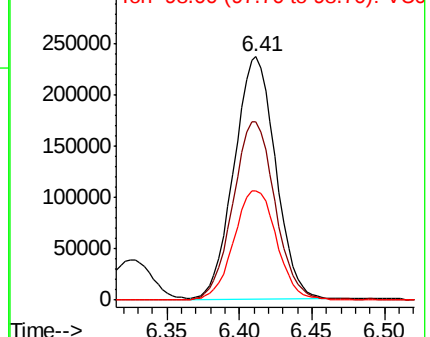
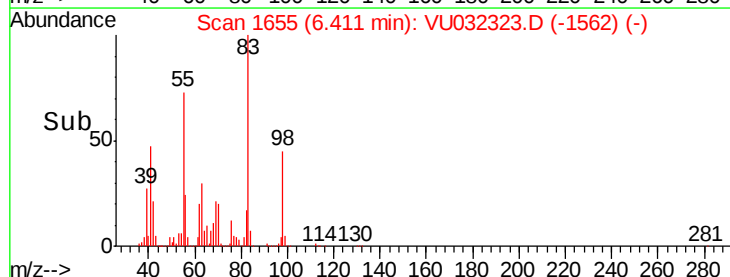


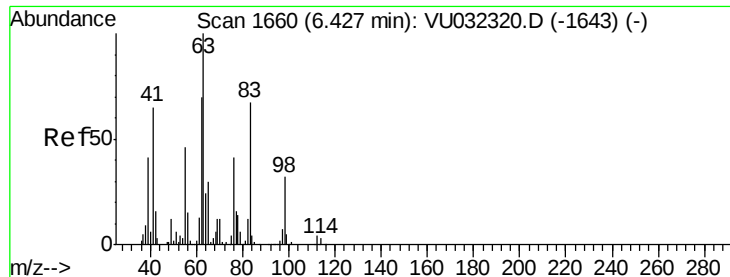
Abundance

Ion 83.00 (82.70 to 83.70): VU0

Ion 55.00 (54.70 to 55.70): VU0

Ion 98.00 (97.70 to 98.70): VU0

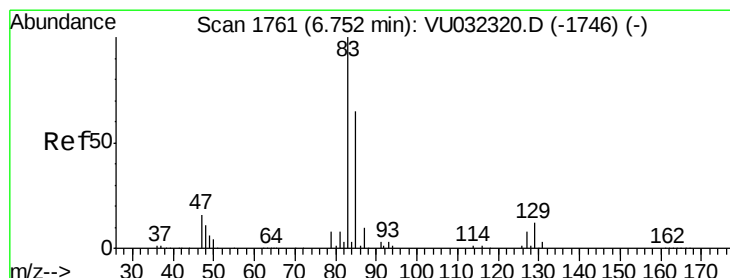
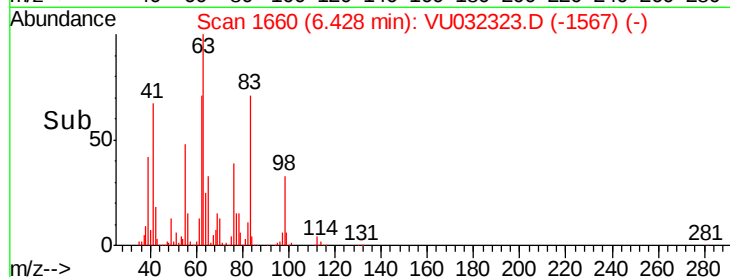
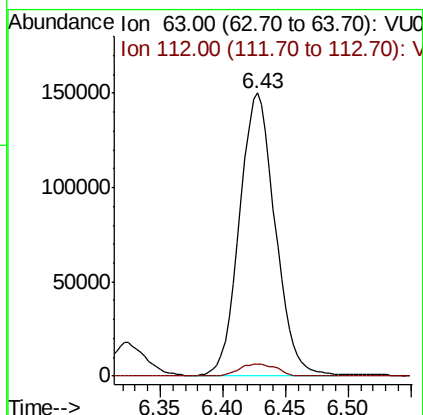
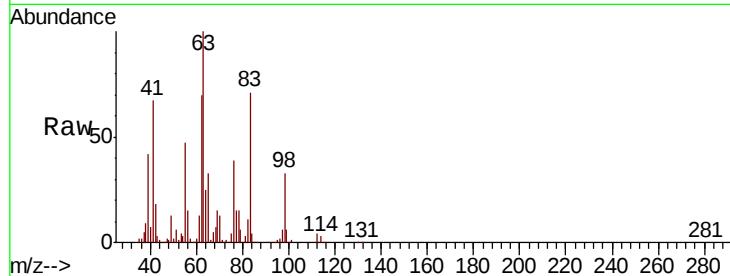




#37
 1,2-Dichloropropane
 Concen: 48.245 ug/L
 RT: 6.43 min Scan# 1660
 Delta R.T. 0.00 min
 Lab File: VU032323.D
 Acq: 28 May 2019 12:59

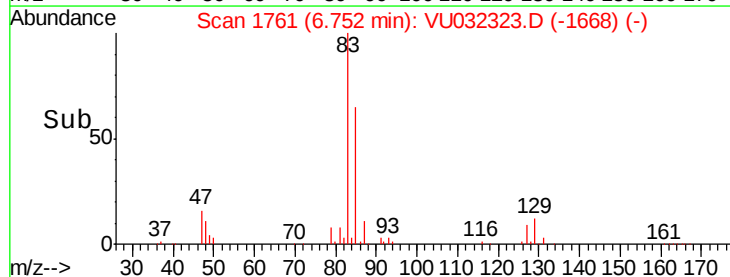
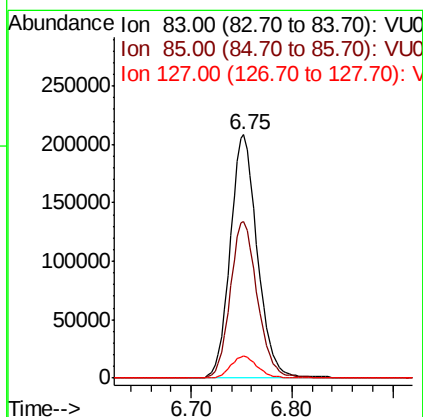
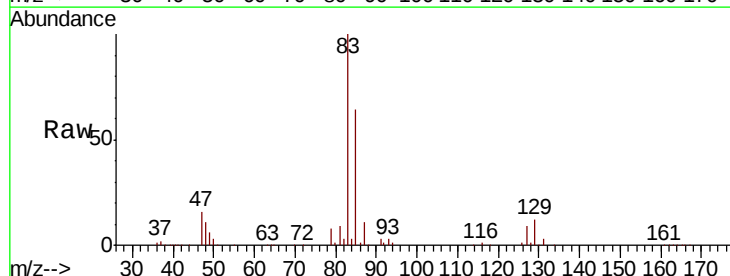
Instrument :
 MSVOA_U
 ClientSampleId :
 VICV58

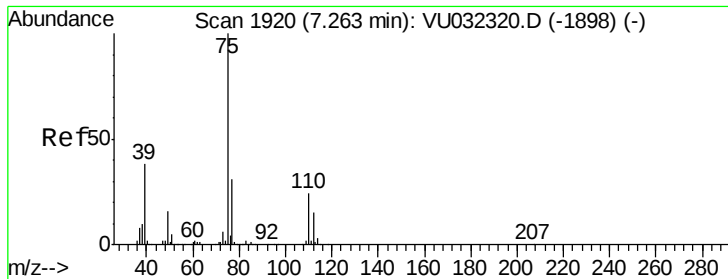
Tgt Ion: 63 Resp: 295273
 Ion Ratio Lower Upper
 63 100
 112 4.5 3.3 4.9



#38
 Bromodichloromethane
 Concen: 49.436 ug/L
 RT: 6.75 min Scan# 1761
 Delta R.T. 0.00 min
 Lab File: VU032323.D
 Acq: 28 May 2019 12:59

Tgt Ion: 83 Resp: 388829
 Ion Ratio Lower Upper
 83 100
 85 64.4 45.4 84.2
 127 8.8 6.4 9.6



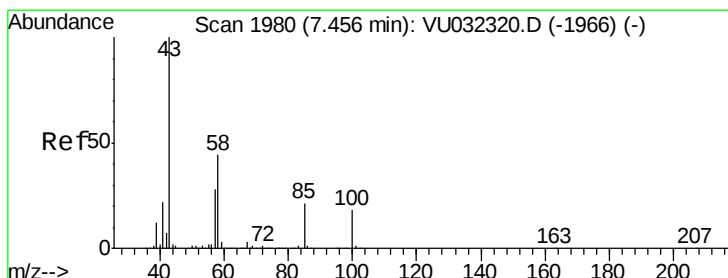
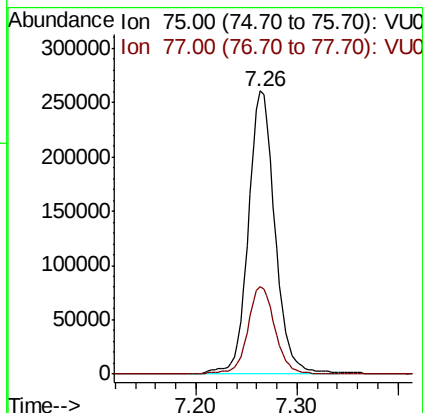
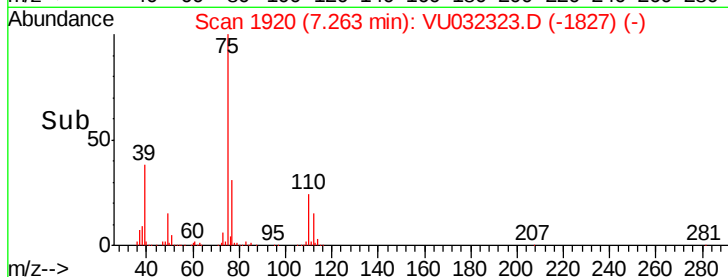
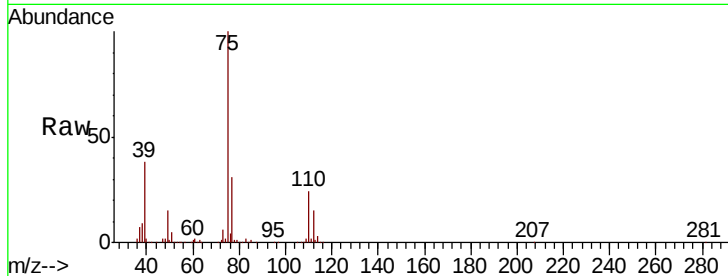


#39

cis-1,3-Dichloropropene
 Concen: 52.303 ug/L
 RT: 7.26 min Scan# 1920
 Delta R.T. 0.00 min
 Lab File: VU032323.D
 Acq: 28 May 2019 12:59

Instrument :
 MSVOA_U
 ClientSampleId :
 VICV58

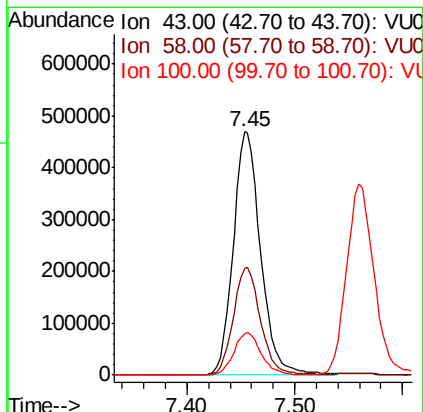
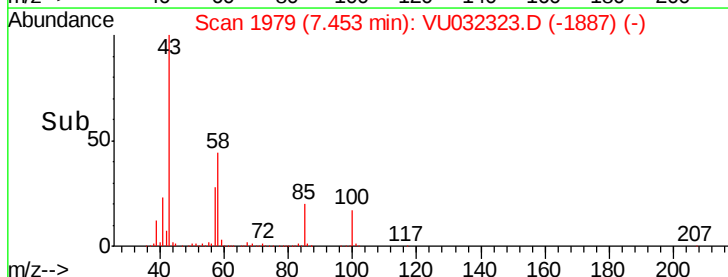
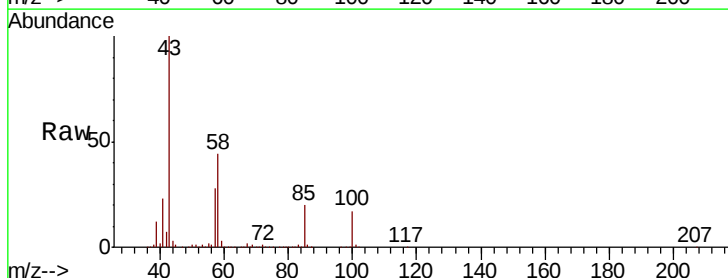
Tgt Ion: 75 Resp: 473129
 Ion Ratio Lower Upper
 75 100
 77 30.9 21.8 40.4

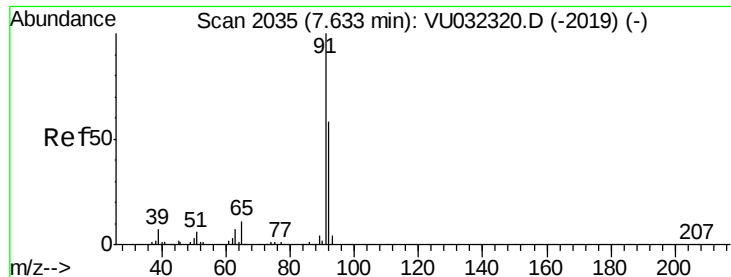


#40

4-Methyl-2-pentanone
 Concen: 104.069 ug/L
 RT: 7.45 min Scan# 1979
 Delta R.T. -0.00 min
 Lab File: VU032323.D
 Acq: 28 May 2019 12:59

Tgt Ion: 43 Resp: 830784
 Ion Ratio Lower Upper
 43 100
 58 44.0 34.6 52.0
 100 17.5 14.1 21.1





#42

Toluene

Concen: 50.825 ug/L

RT: 7.63 min Scan# 2035

Delta R.T. 0.00 min

Lab File: VU032323.D

Acq: 28 May 2019 12:59

Instrument :

MSVOA_U

ClientSampleId :

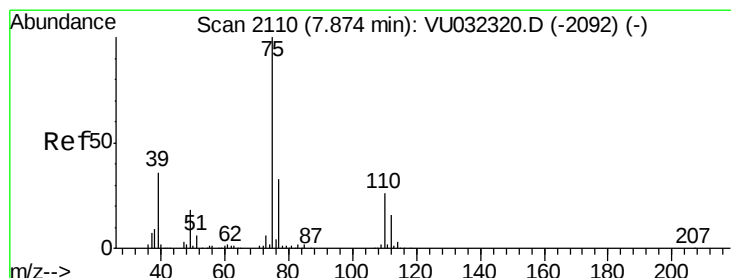
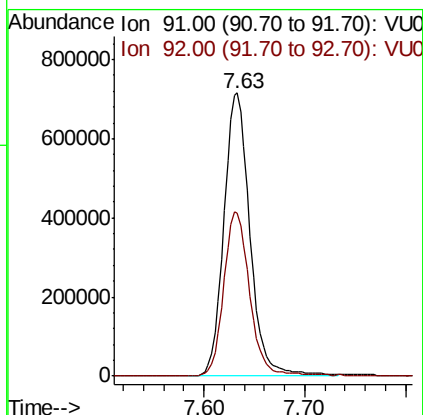
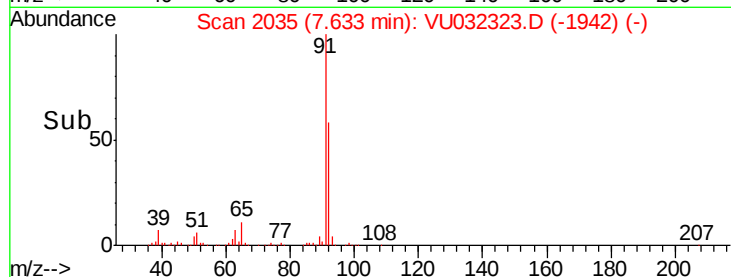
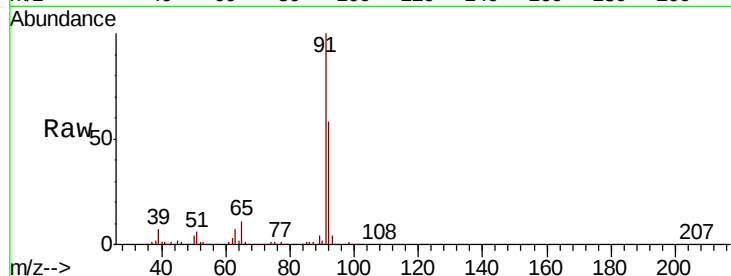
VICV58

Tgt Ion: 91 Resp: 1296594

Ion Ratio Lower Upper

91 100

92 57.6 40.7 75.7



#44

trans-1,3-Dichloropropene

Concen: 52.700 ug/L

RT: 7.87 min Scan# 2110

Delta R.T. 0.00 min

Lab File: VU032323.D

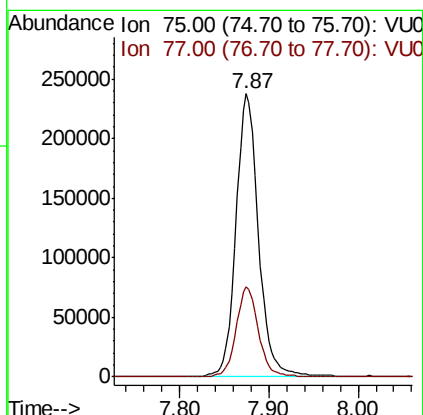
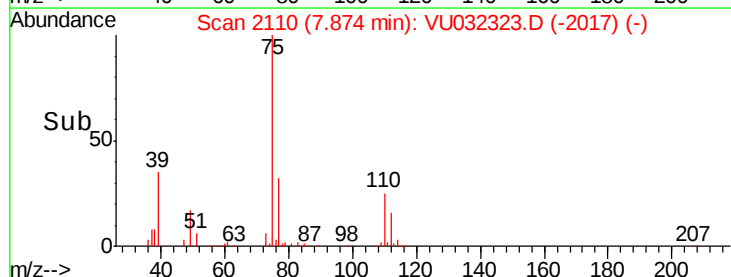
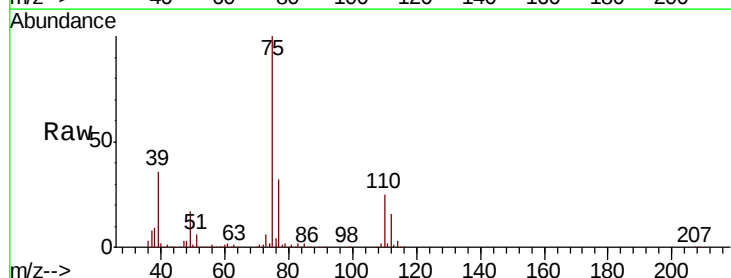
Acq: 28 May 2019 12:59

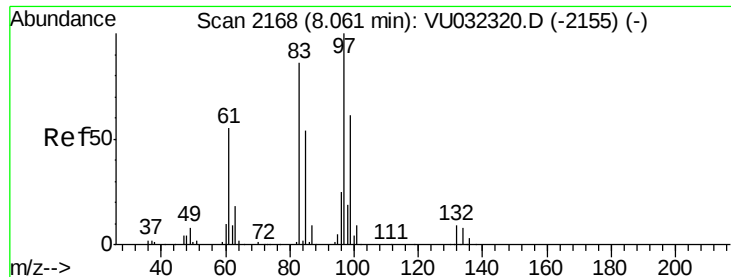
Tgt Ion: 75 Resp: 417521

Ion Ratio Lower Upper

75 100

77 32.0 23.0 42.6

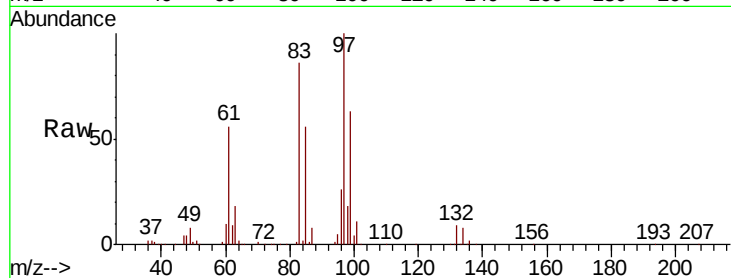




#45
 1,1,2-Trichloroethane
 Concen: 49.596 ug/L
 RT: 8.06 min Scan# 2168
 Delta R.T. 0.00 min
 Lab File: VU032323.D
 Acq: 28 May 2019 12:59

Instrument :
 MSVOA_U
 ClientSampleId :
 VICV58

Tgt Ion:	97	Resp:	296794
Ion	Ratio	Lower	Upper
97	100		
99	63.3	42.6	79.0
83	85.5	60.3	112.1
85	56.4	38.1	70.9



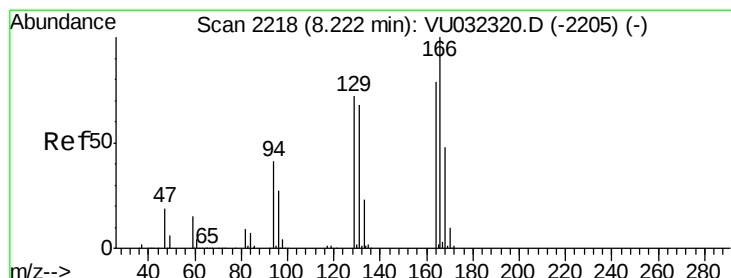
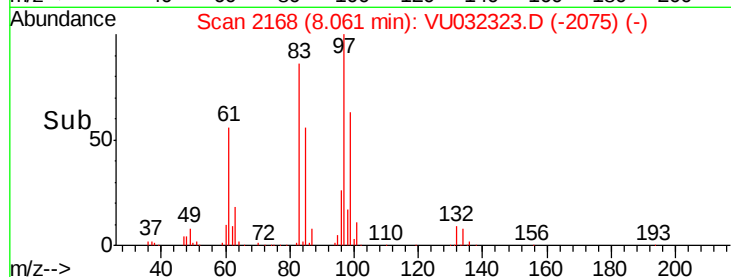
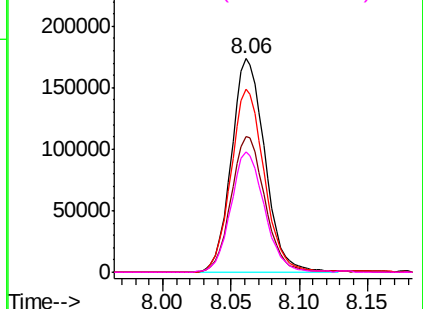
Abundance

Ion 97.00 (96.70 to 97.70): VU0

Ion 99.00 (98.70 to 99.70): VU0

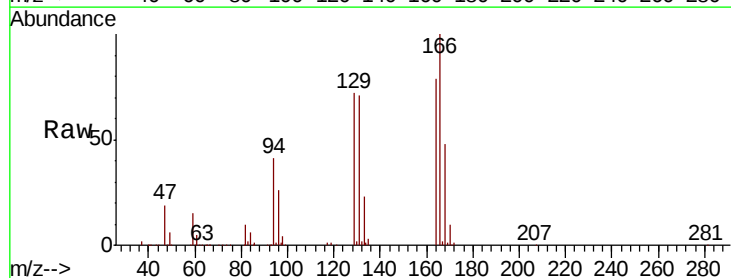
Ion 83.00 (82.70 to 83.70): VU0

Ion 85.00 (84.70 to 85.70): VU0



#46
 Tetrachloroethene
 Concen: 49.363 ug/L
 RT: 8.22 min Scan# 2218
 Delta R.T. 0.00 min
 Lab File: VU032323.D
 Acq: 28 May 2019 12:59

Tgt Ion:	164	Resp:	242778
Ion	Ratio	Lower	Upper
164	100		
129	90.4	63.9	118.7
131	89.1	60.4	112.2
166	126.1	88.3	164.1



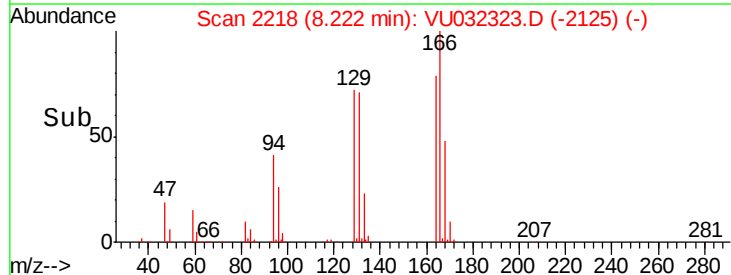
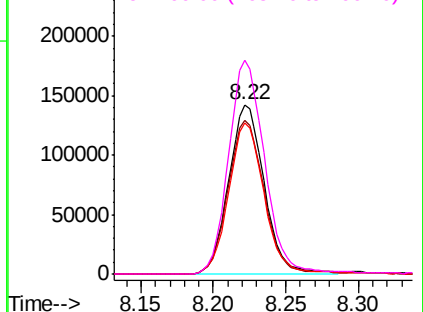
Abundance

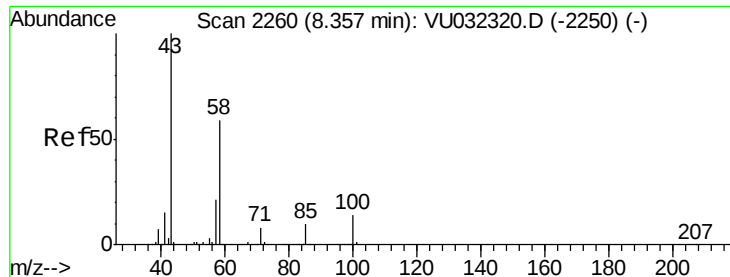
Ion 164.00 (163.70 to 164.70): V

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

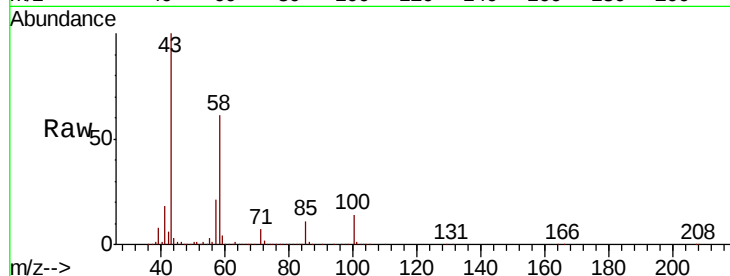




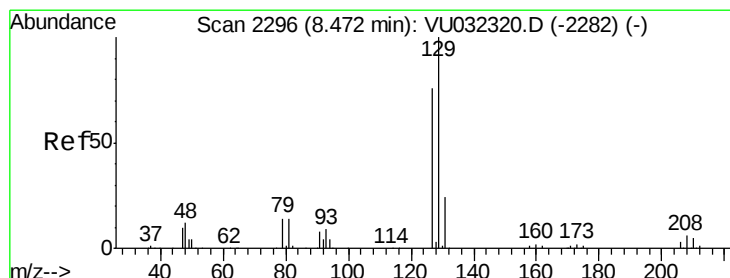
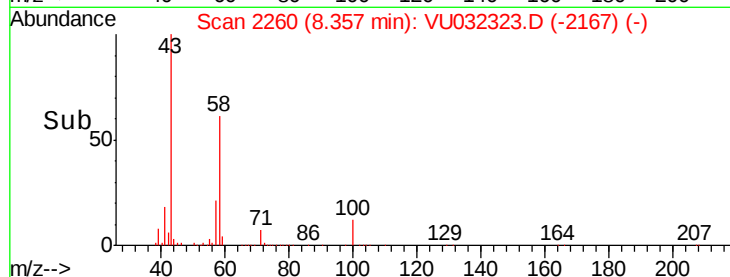
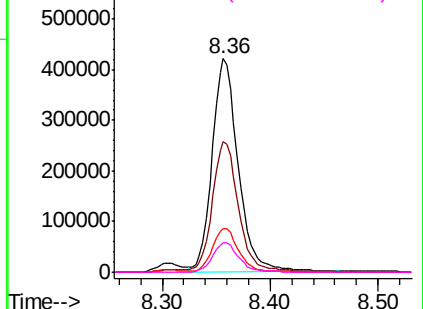
#48
2-Hexanone
Concen: 109.157 ug/L
RT: 8.36 min Scan# 2260
Delta R.T. 0.00 min
Lab File: VU032323.D
Acq: 28 May 2019 12:59

Instrument :
MSVOA_U
ClientSampleId :
VICV58

Tgt Ion:	43	Resp:	710889
Ion	Ratio	Lower	Upper
43	100		
58	61.4	48.6	73.0
57	20.5	17.0	25.4
100	13.9	11.0	16.4

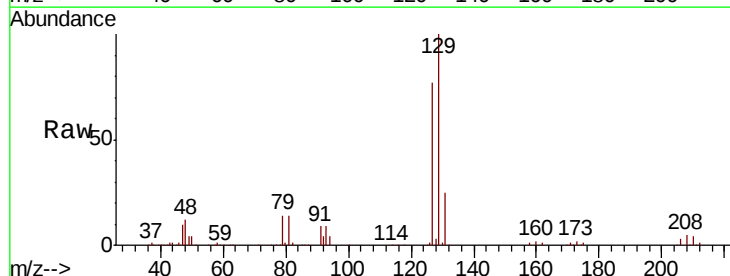


Abundance Ion 43.00 (42.70 to 43.70): VU0
Ion 58.00 (57.70 to 58.70): VU0
Ion 57.00 (56.70 to 57.70): VU0
Ion 100.00 (99.70 to 100.70): VU0

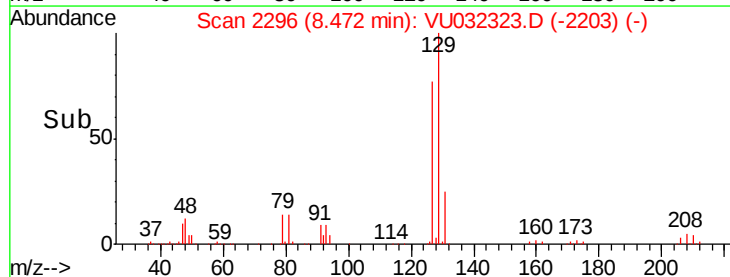
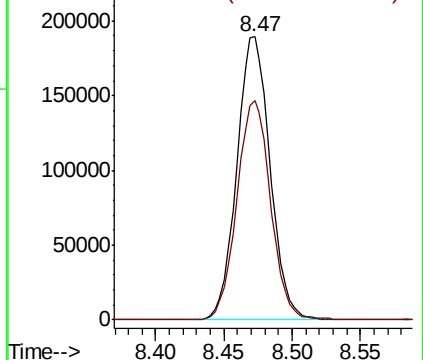


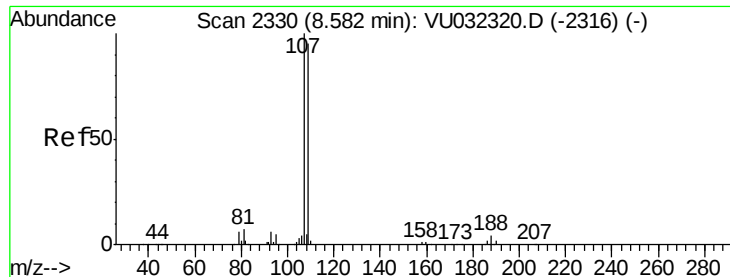
#49
Dibromochloromethane
Concen: 49.546 ug/L
RT: 8.47 min Scan# 2296
Delta R.T. 0.00 min
Lab File: VU032323.D
Acq: 28 May 2019 12:59

Tgt Ion:	129	Resp:	321131
Ion	Ratio	Lower	Upper
129	100		
127	77.5	53.3	99.1



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

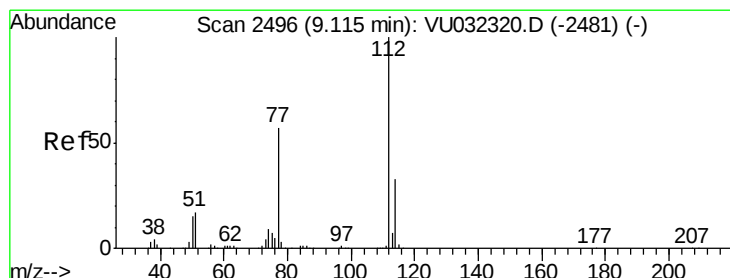
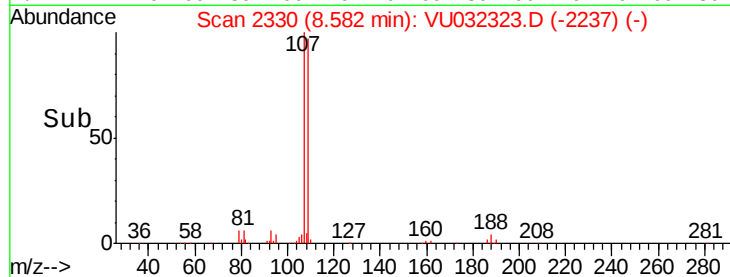
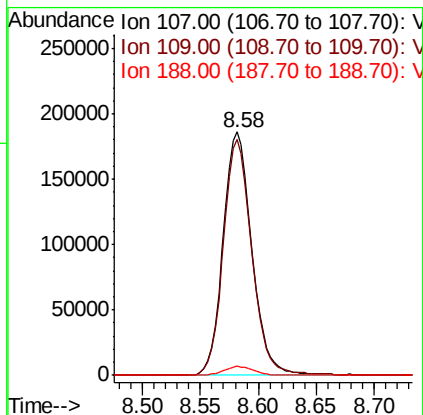
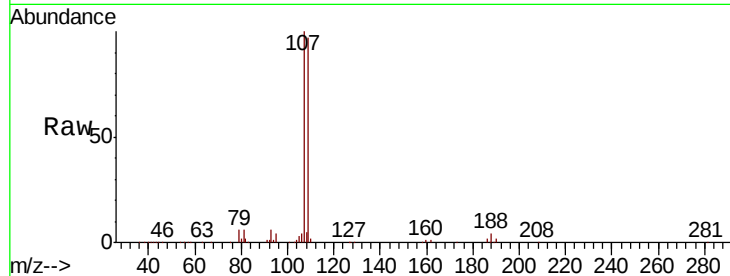




#50
 1,2-Dibromoethane
 Concen: 50.488 ug/L
 RT: 8.58 min Scan# 2330
 Delta R.T. 0.00 min
 Lab File: VU032323.D
 Acq: 28 May 2019 12:59

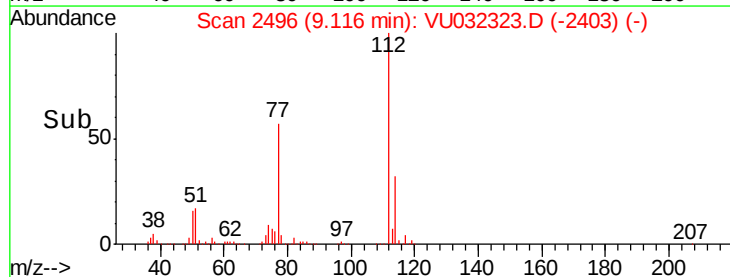
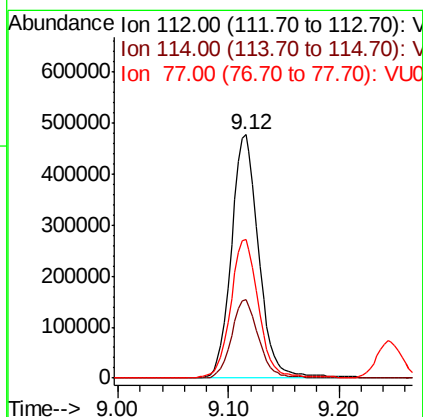
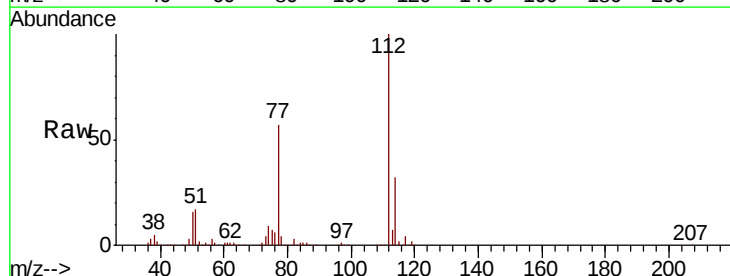
Instrument :
 MSVOA_U
 ClientSampleId :
 VICV58

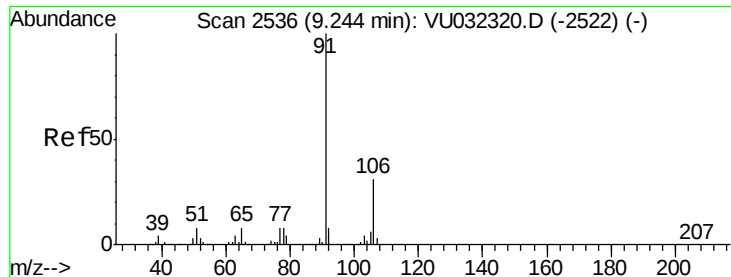
Tgt Ion	Ratio	Lower	Upper
107	100		
109	96.8	66.7	123.9
188	3.6	3.0	4.6



#51
 Chlorobenzene
 Concen: 50.015 ug/L
 RT: 9.12 min Scan# 2496
 Delta R.T. 0.00 min
 Lab File: VU032323.D
 Acq: 28 May 2019 12:59

Tgt Ion	Ratio	Lower	Upper
112	100		
114	32.0	22.9	42.5
77	56.8	45.8	68.8





#52

Ethylbenzene

Concen: 51.785 ug/L

RT: 9.24 min Scan# 2536

Delta R.T. 0.00 min

Lab File: VU032323.D

Acq: 28 May 2019 12:59

Instrument :

MSVOA_U

ClientSampleId :

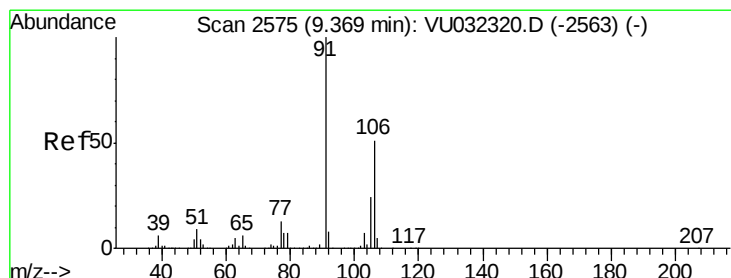
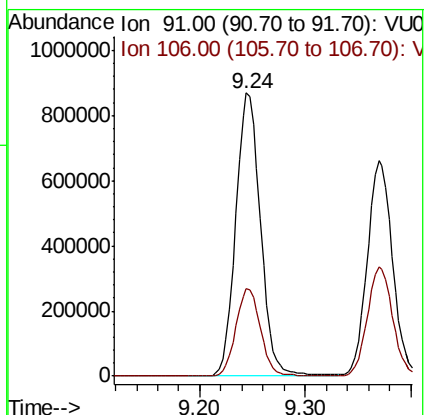
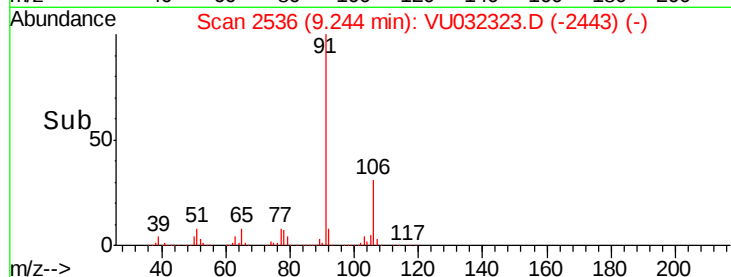
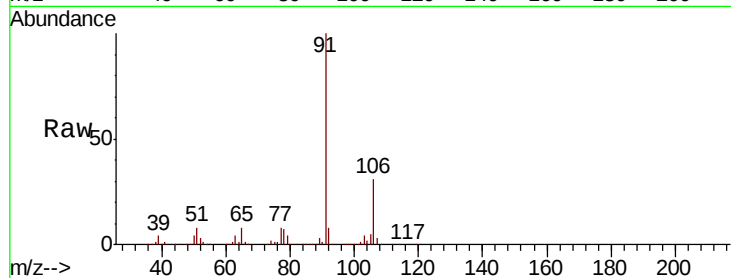
VICV58

Tgt Ion: 91 Resp: 1410339

Ion Ratio Lower Upper

91 100

106 30.8 22.0 40.8



#53

m,p-Xylene

Concen: 52.857 ug/L

RT: 9.37 min Scan# 2575

Delta R.T. 0.00 min

Lab File: VU032323.D

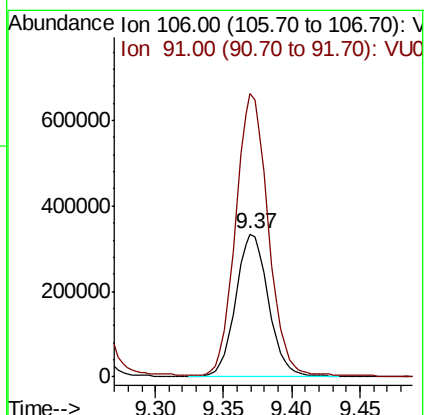
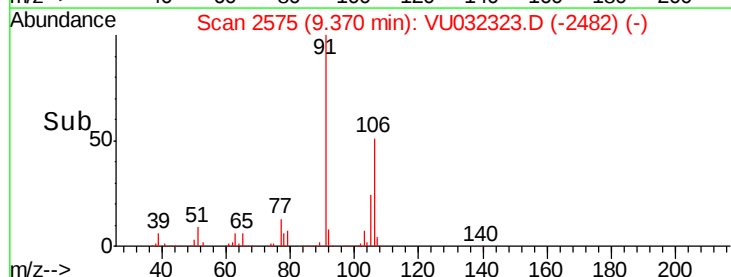
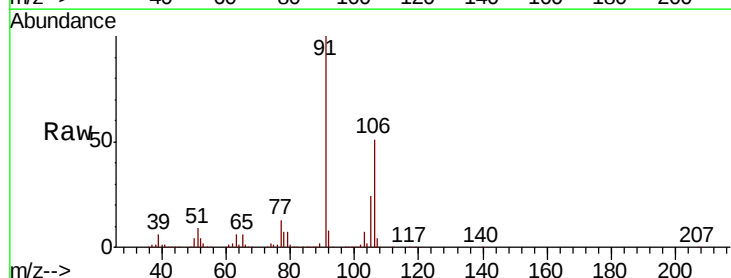
Acq: 28 May 2019 12:59

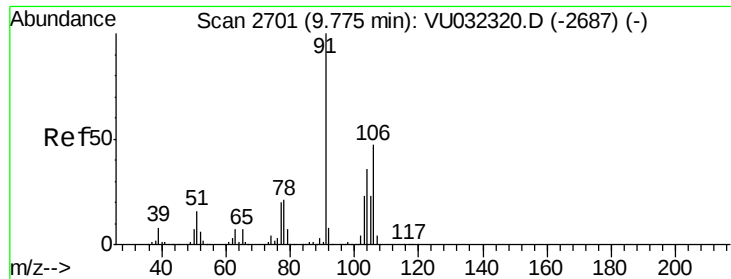
Tgt Ion: 106 Resp: 553857

Ion Ratio Lower Upper

106 100

91 198.0 138.8 257.8





#54

o-xylene

Concen: 52.001 ug/L

RT: 9.77 min Scan# 2701

Delta R.T. 0.00 min

Lab File: VU032323.D

Acq: 28 May 2019 12:59

Instrument :

MSVOA_U

ClientSampleId :

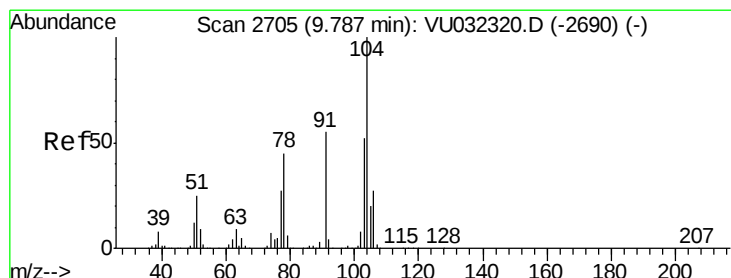
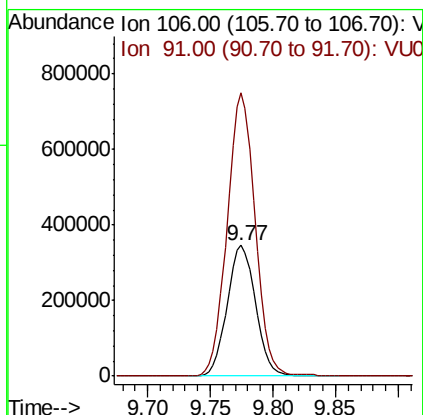
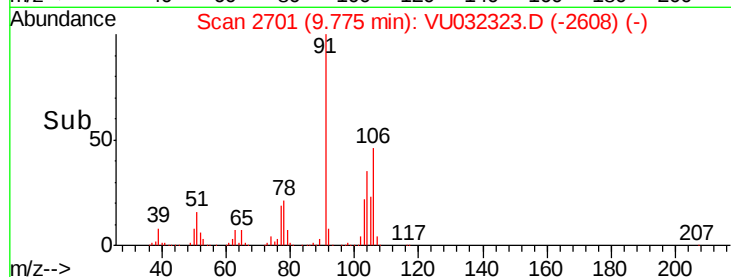
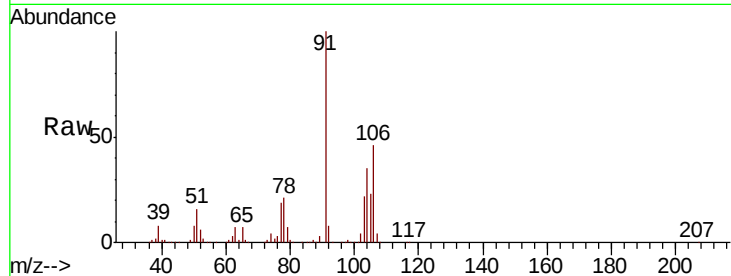
VICV58

Tgt Ion:106 Resp: 546875

Ion Ratio Lower Upper

106 100

91 216.1 147.5 273.9



#55

Styrene

Concen: 53.839 ug/L

RT: 9.79 min Scan# 2705

Delta R.T. 0.00 min

Lab File: VU032323.D

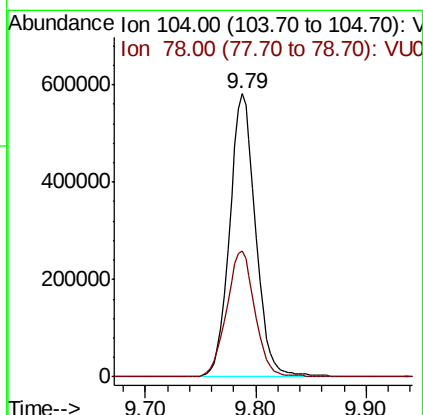
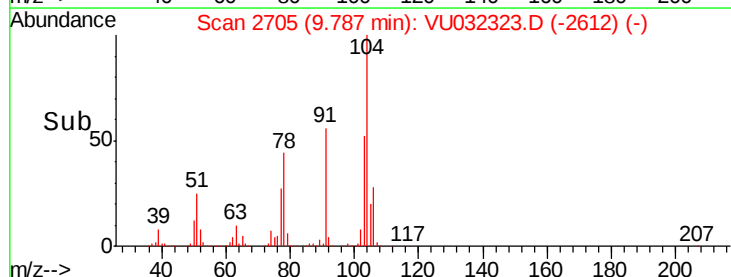
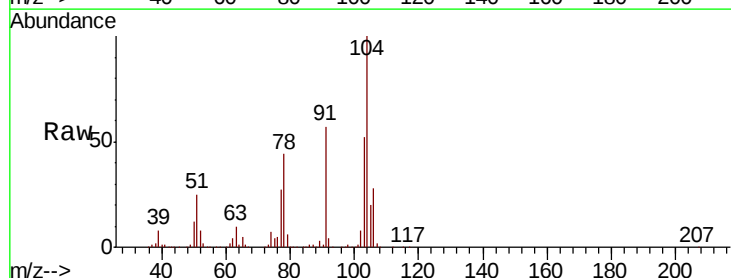
Acq: 28 May 2019 12:59

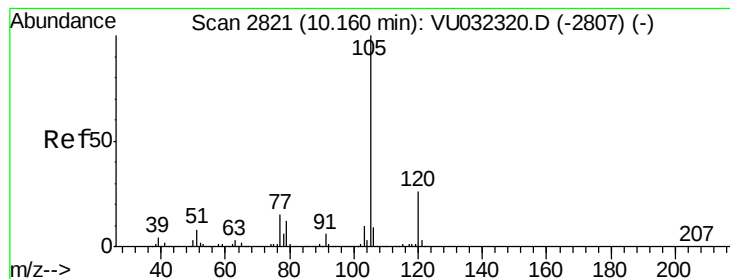
Tgt Ion:104 Resp: 949881

Ion Ratio Lower Upper

104 100

78 44.4 31.5 58.5





#56

Isopropylbenzene

Concen: 52.532 ug/L

RT: 10.16 min Scan# 2821

Delta R.T. 0.00 min

Lab File: VU032323.D

Acq: 28 May 2019 12:59

Instrument :

MSVOA_U

ClientSampleId :

VICV58

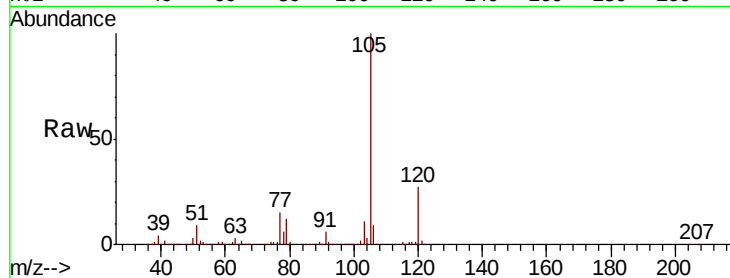
Tgt Ion:105 Resp: 1401879

Ion Ratio Lower Upper

105 100

120 26.3 21.0 31.4

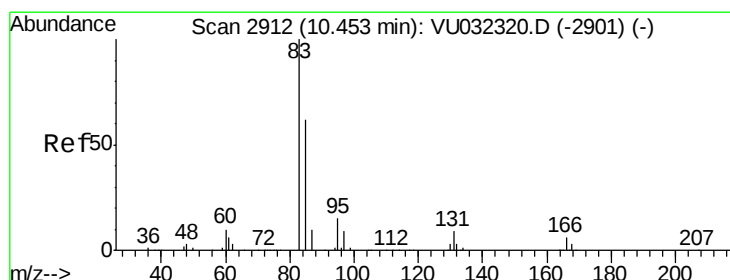
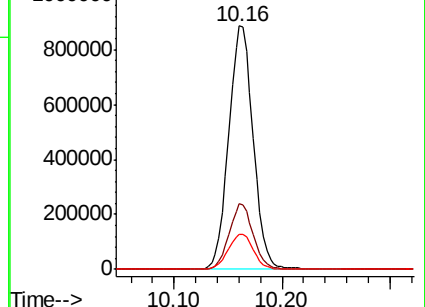
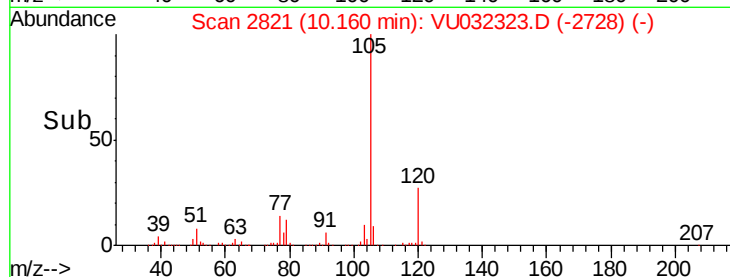
77 14.9 11.8 17.6



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



#58

1,1,2,2-Tetrachloroethane

Concen: 48.793 ug/L

RT: 10.45 min Scan# 2912

Delta R.T. 0.00 min

Lab File: VU032323.D

Acq: 28 May 2019 12:59

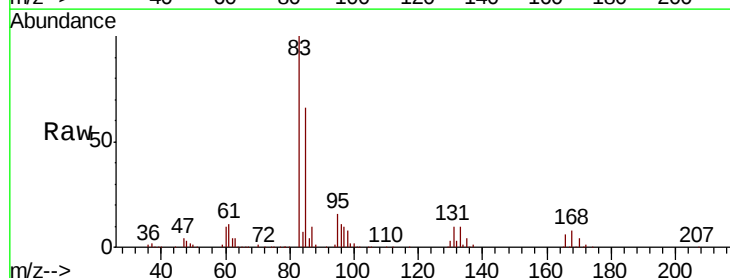
Tgt Ion: 83 Resp: 504174

Ion Ratio Lower Upper

83 100

85 65.9 44.3 82.3

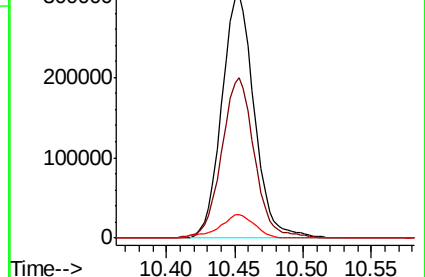
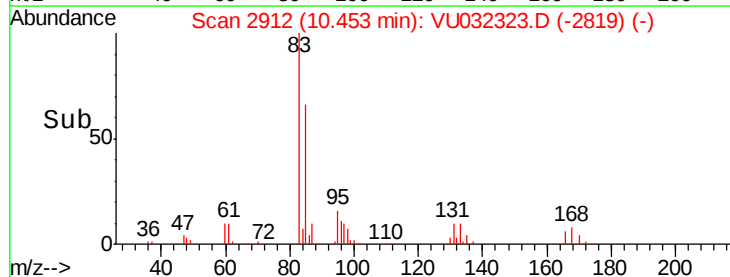
131 9.7 7.6 11.4

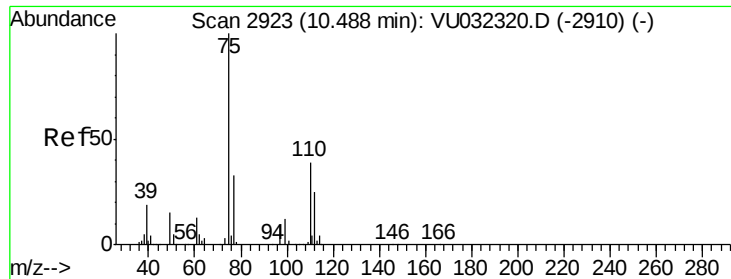


Abundance Ion 83.00 (82.70 to 83.70): V

Ion 85.00 (84.70 to 85.70): V

Ion 131.00 (130.70 to 131.70): V





#59

1,2,3-Trichloropropane

Concen: 48.945 ug/L

RT: 10.49 min Scan# 2923

Delta R.T. 0.00 min

Lab File: VU032323.D

Acq: 28 May 2019 12:59

Instrument :

MSVOA_U

ClientSampleId :

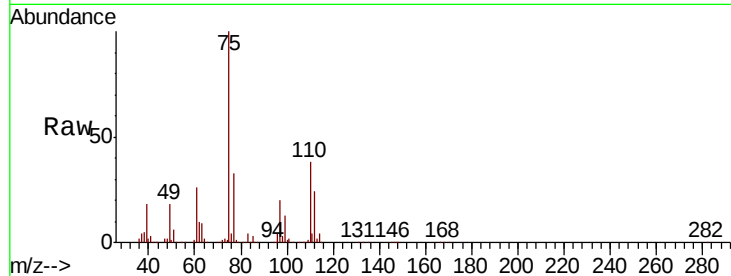
VICV58

Tgt Ion: 75 Resp: 397362

Ion Ratio Lower Upper

75 100

77 32.9 25.8 38.8



Abundance Ion 75.00 (74.70 to 75.70): VU032323.D (-2910) (-)

Ion 77.00 (76.70 to 77.70): VU032323.D (-2910) (-)

10.49

250000

200000

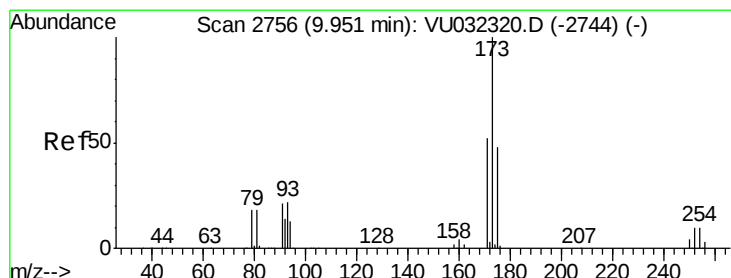
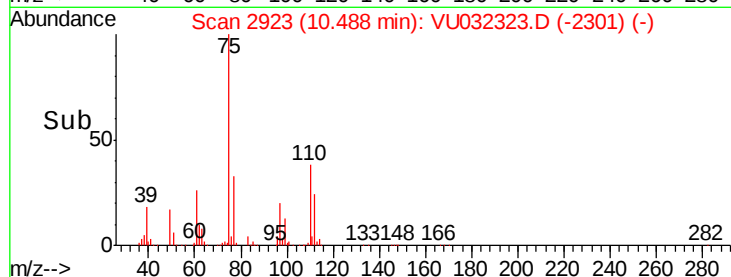
150000

100000

50000

0

Time-->



#61

Bromoform

Concen: 46.987 ug/L

RT: 9.95 min Scan# 2757

Delta R.T. 0.00 min

Lab File: VU032323.D

Acq: 28 May 2019 12:59

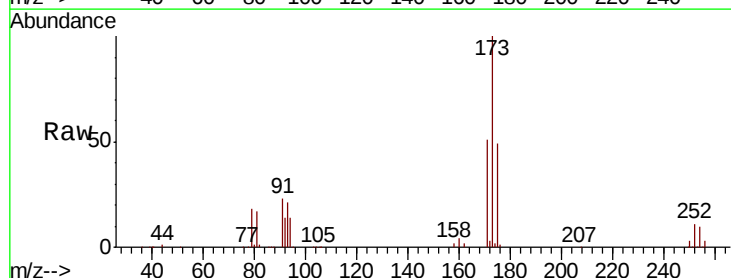
Tgt Ion: 173 Resp: 252348

Ion Ratio Lower Upper

173 100

175 47.9 38.8 58.2

254 10.2 7.5 11.3



Abundance Ion 173.00 (172.70 to 173.70): VU032323.D (-2744) (-)

Ion 175.00 (174.70 to 175.70): VU032323.D (-2744) (-)

Ion 254.00 (253.70 to 254.70): VU032323.D (-2744) (-)

9.95

200000

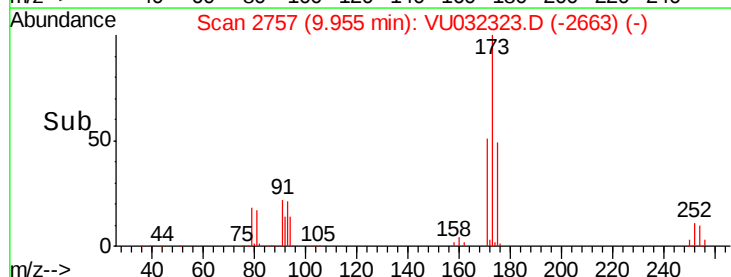
150000

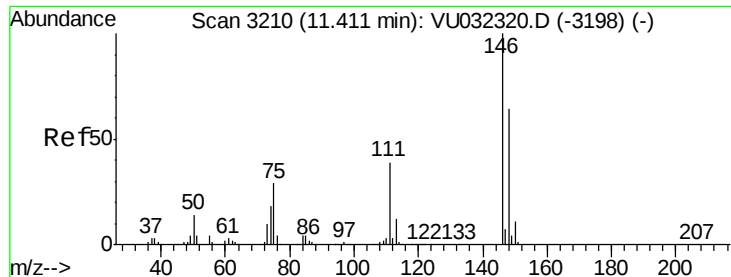
100000

50000

0

Time-->





#62

1,3-Dichlorobenzene

Concen: 50.030 ug/L

RT: 11.41 min Scan# 3210

Delta R.T. 0.00 min

Lab File: VU032323.D

Acq: 28 May 2019 12:59

Instrument :

MSVOA_U

ClientSampleId :

VICV58

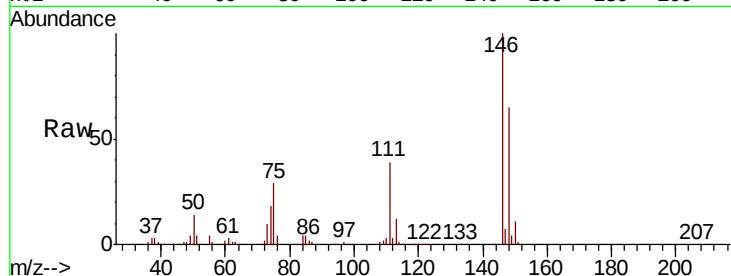
Tgt Ion:146 Resp: 646225

Ion Ratio Lower Upper

146 100

111 39.2 27.6 51.2

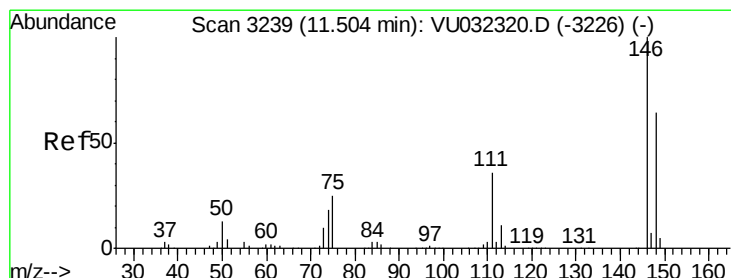
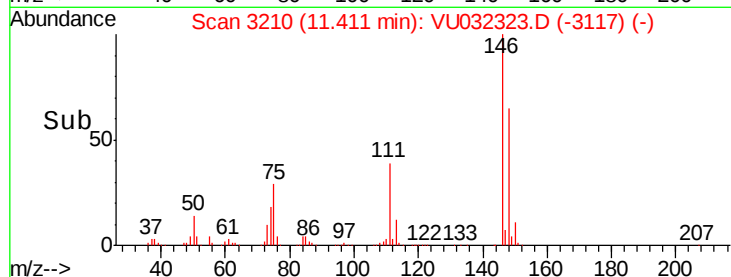
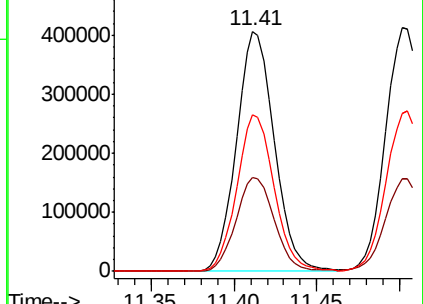
148 65.2 44.7 82.9



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



#63

1,4-Dichlorobenzene

Concen: 50.569 ug/L

RT: 11.50 min Scan# 3238

Delta R.T. -0.00 min

Lab File: VU032323.D

Acq: 28 May 2019 12:59

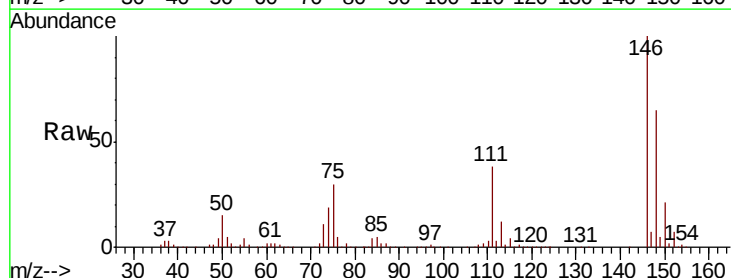
Tgt Ion:146 Resp: 674187

Ion Ratio Lower Upper

146 100

111 38.1 25.6 47.4

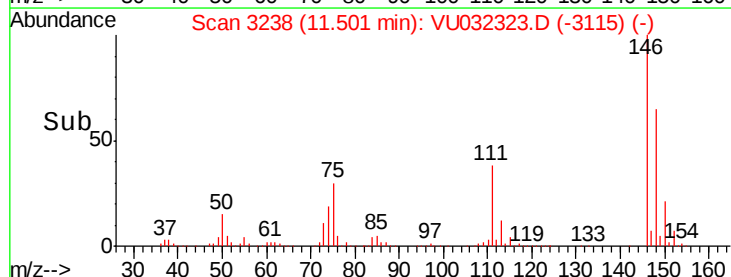
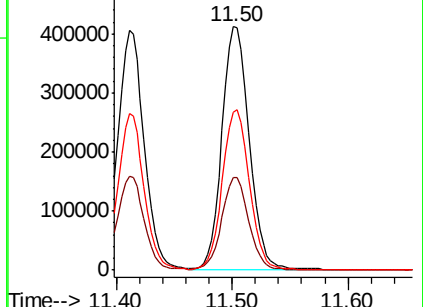
148 64.9 45.0 83.6

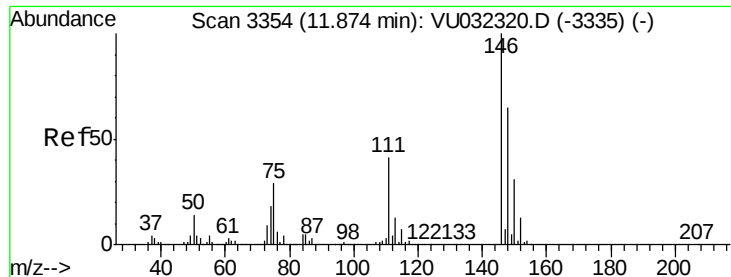


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V

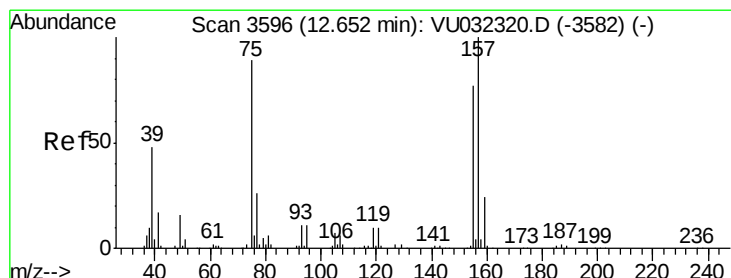
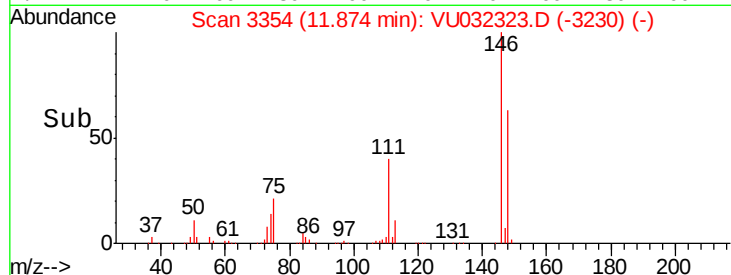
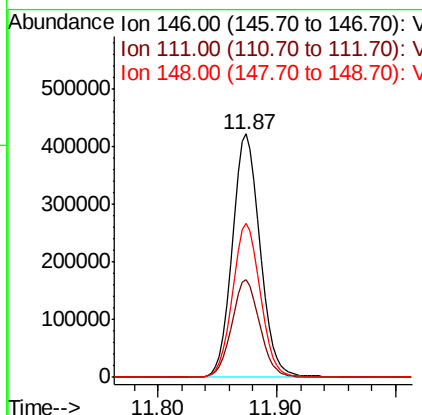
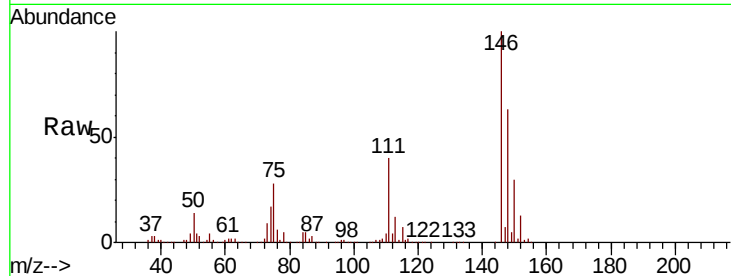




#65
 1,2-Dichlorobenzene
 Concen: 49.941 ug/L
 RT: 11.87 min Scan# 3354
 Delta R.T. 0.00 min
 Lab File: VU032323.D
 Acq: 28 May 2019 12:59

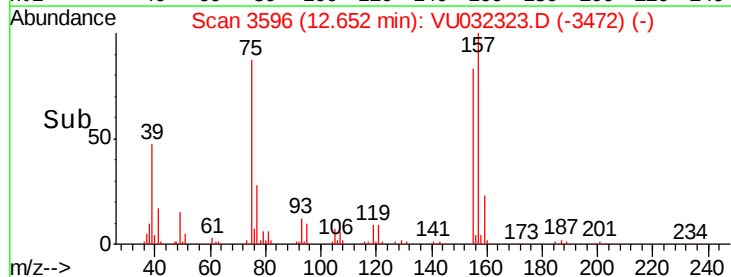
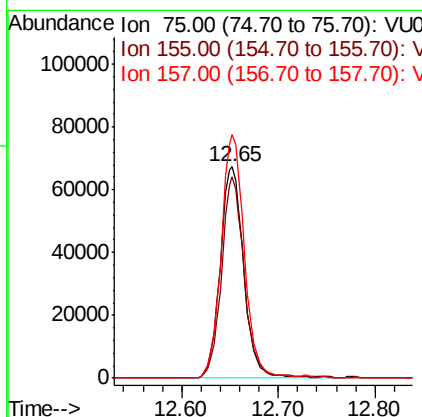
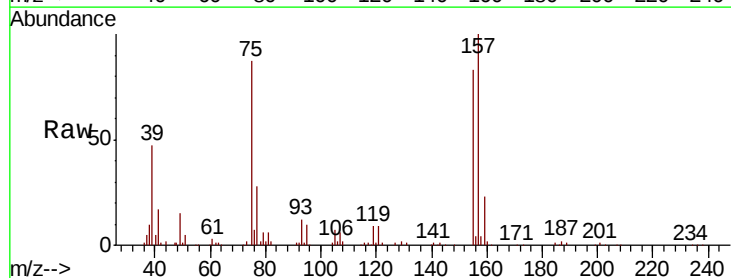
Instrument :
 MSVOA_U
 ClientSampled :
 VICV58

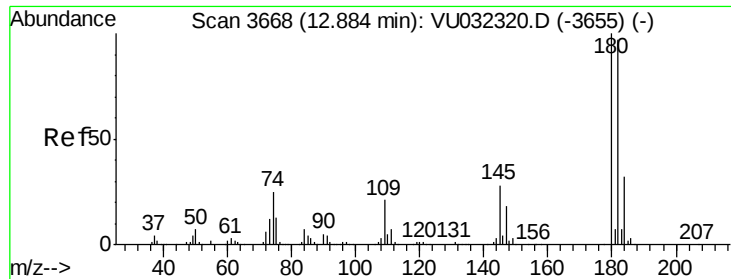
Tgt Ion: 146 Resp: 679072
 Ion Ratio Lower Upper
 146 100
 111 40.2 33.1 49.7
 148 63.2 52.3 78.5



#66
 1,2-Dibromo-3-chloropropane
 Concen: 50.850 ug/L
 RT: 12.65 min Scan# 3596
 Delta R.T. 0.00 min
 Lab File: VU032323.D
 Acq: 28 May 2019 12:59

Tgt Ion: 75 Resp: 113296
 Ion Ratio Lower Upper
 75 100
 155 95.4 69.5 104.3
 157 115.2 89.8 134.6

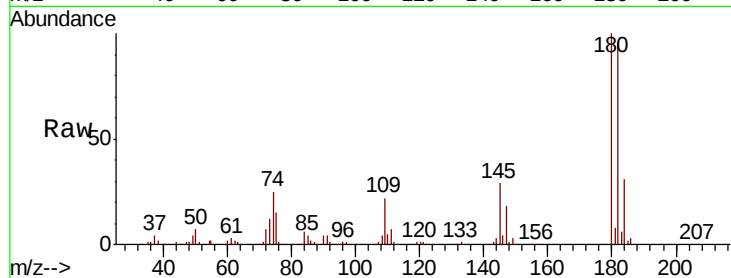




#67
 1,3,5-Trichlorobenzene
 Concen: 52.398 ug/L
 RT: 12.88 min Scan# 3668
 Delta R.T. 0.00 min
 Lab File: VU032323.D
 Acq: 28 May 2019 12:59

Instrument :
 MSVOA_U
 ClientSampleID :
 VICV58

Tgt Ion	Ratio	Lower	Upper
180	100		
182	95.9	78.3	117.5
184	30.3	25.0	37.4
145	28.7	22.6	33.8



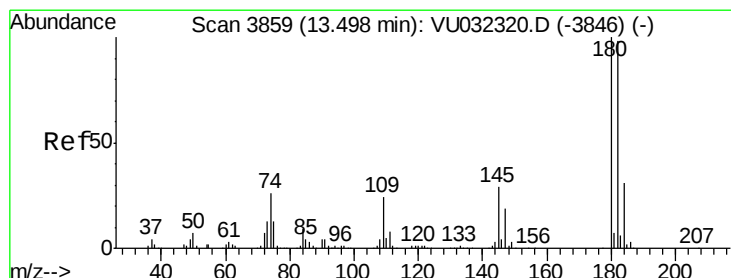
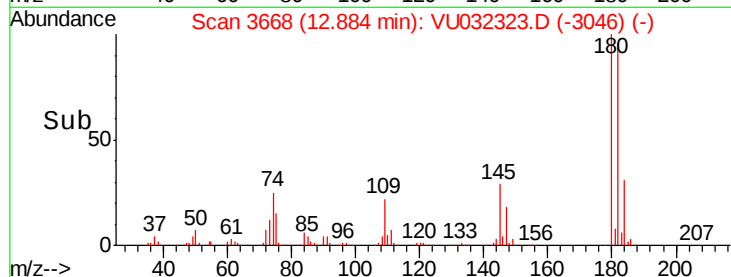
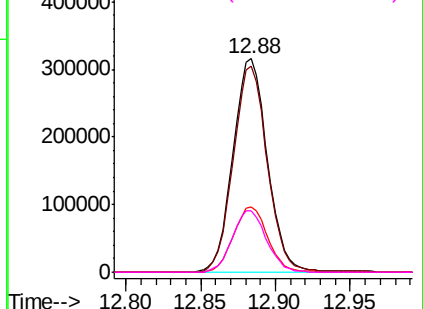
Abundance

Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

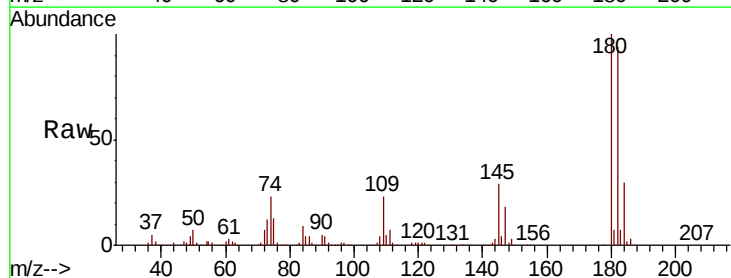
Ion 184.00 (183.70 to 184.70): V

Ion 145.00 (144.70 to 145.70): V



#68
 1,2,4-trichlorobenzene
 Concen: 58.344 ug/L
 RT: 13.50 min Scan# 3859
 Delta R.T. 0.00 min
 Lab File: VU032323.D
 Acq: 28 May 2019 12:59

Tgt Ion	Ratio	Lower	Upper
180	100		
182	95.2	78.2	117.4
145	28.3	23.0	34.4

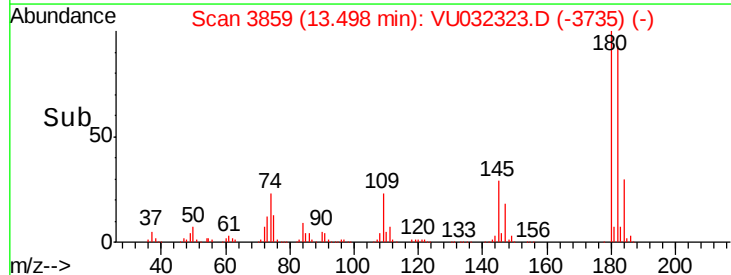
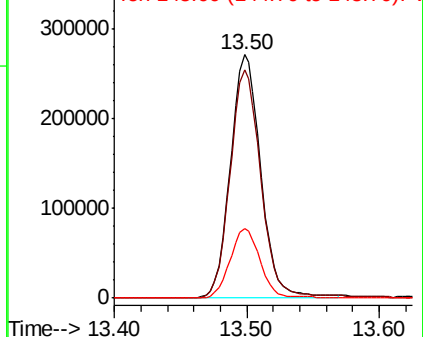


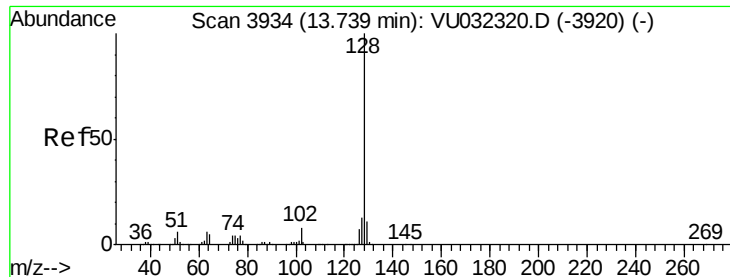
Abundance

Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V





#69

Naphthalene

Concen: 66.819 ug/L

RT: 13.74 min Scan# 3934

Delta R.T. 0.00 min

Lab File: VU032323.D

Acq: 28 May 2019 12:59

Instrument :

MSVOA_U

ClientSampleId :

VICV58

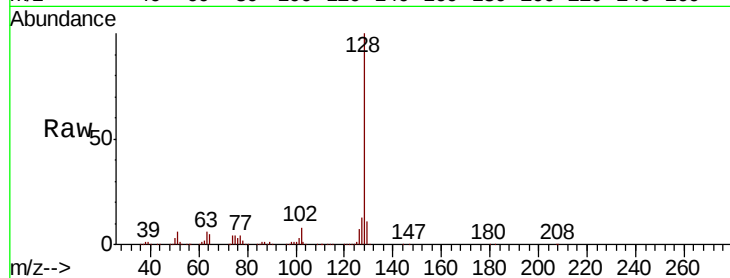
Tgt Ion:128 Resp: 1481207

Ion Ratio Lower Upper

128 100

127 12.7 10.1 15.1

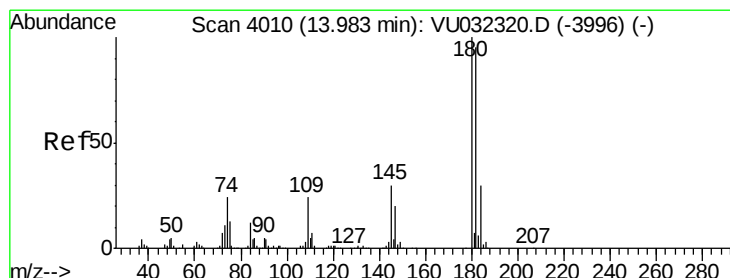
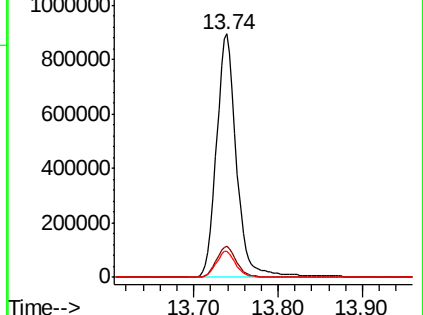
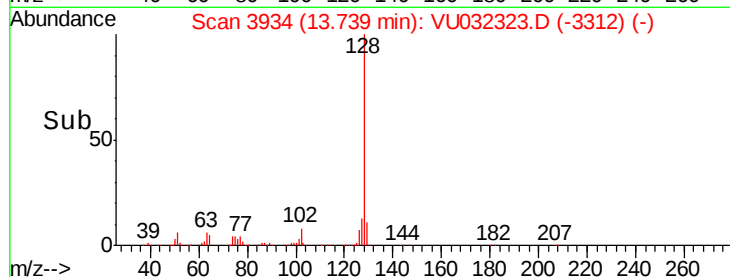
129 10.6 8.7 13.1



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V



#70

1,2,3-Trichlorobenzene

Concen: 58.639 ug/L

RT: 13.98 min Scan# 4010

Delta R.T. 0.00 min

Lab File: VU032323.D

Acq: 28 May 2019 12:59

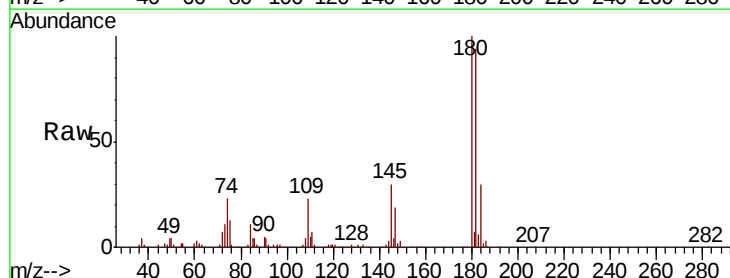
Tgt Ion:180 Resp: 469612

Ion Ratio Lower Upper

180 100

182 93.5 77.7 116.5

145 29.9 24.3 36.5



Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V

