

Data File : VU030582.D
Acq On : 31 Mar 2019 11:52
Operator : JC/SP
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
VSTD05042

Quant Time: Apr 01 01:58:05 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM032319WMA.M
Quant Title : VOC Analysis
QLast Update : Sat Mar 30 02:12:04 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.88	114	485776	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.09	117	474930	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.48	152	219026	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.40	65	163774	41.89	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	83.78%
7) Chloroethane-d5	1.67	69	132333	42.71	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	85.42%
11) 1,1-Dichloroethene-d2	2.27	63	330587	44.58	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	89.16%
21) 2-Butanone-d5	4.17	46	317305	86.34	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	86.34%
24) Chloroform-d	4.64	84	307940	45.72	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	91.44%
26) 1,2-Dichloroethane-d4	5.30	65	198147	44.96	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	89.92%
32) Benzene-d6	5.34	84	598807	43.97	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	87.94%
36) 1,2-Dichloropropane-d6	6.33	67	209505	44.96	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	89.92%
41) Toluene-d8	7.56	98	548167	44.81	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	89.62%
43) trans-1,3-Dichloropropene-	7.85	79	99075	45.22	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	90.44%
47) 2-Hexanone-d5	8.31	63	202620	80.24	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	80.24%
57) 1,1,2,2-Tetrachloroethane-	10.43	84	296169	44.42	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	88.84%
64) 1,2-Dichlorobenzene-d4	11.86	152	196253	44.72	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	89.44%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.21	85	230959	43.091	ug/L	100
3) Chloromethane	1.33	50	262363	43.768	ug/L	100
5) Vinyl chloride	1.40	62	253215	44.546	ug/L	99
6) Bromomethane	1.61	94	121641	46.648	ug/L	100
8) Chloroethane	1.69	64	138851	43.268	ug/L	99
9) Trichlorofluoromethane	1.88	101	285396	46.041	ug/L	99
10) 1,1,2-Trichloro-1,2,2-trif	2.28	101	163767	46.192	ug/L	98
12) 1,1-Dichloroethene	2.28	96	151031	43.455	ug/L	96
13) Acetone	2.32	43	365962	98.466	ug/L	99
14) Carbon disulfide	2.47	76	477756	41.574	ug/L	100
15) Methyl Acetate	2.61	43	251923	44.268	ug/L #	100
16) Methylene chloride	2.70	84	185920	45.377	ug/L	99
17) trans-1,2-Dichloroethene	2.98	96	158657	43.511	ug/L	100
18) Methyl tert-butyl Ether	3.00	73	544515	45.157	ug/L	100
19) 1,1-Dichloroethane	3.44	63	341607	45.664	ug/L	99
20) cis-1,2-Dichloroethene	4.22	96	178420	43.630	ug/L	93
22) 2-Butanone	4.26	43	420594	93.625	ug/L	98

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	4.55	128	84687	44.555	ug/L	94
25) Chloroform	4.67	83	326976	45.971	ug/L	99
27) 1,2-Dichloroethane	5.40	62	262327	47.001	ug/L	99
29) Cyclohexane	4.99	56	315175	43.852	ug/L	99
30) 1,1,1-Trichloroethane	4.91	97	264005	45.398	ug/L	100
31) Carbon tetrachloride	5.13	117	224301	45.506	ug/L	97
33) Benzene	5.39	78	720128	44.543	ug/L	100
34) Trichloroethene	6.18	95	175665	44.199	ug/L	98
35) Methylcyclohexane	6.41	83	287685	43.988	ug/L	100
37) 1,2-Dichloropropane	6.43	63	201424	43.902	ug/L	99
38) Bromodichloromethane	6.75	83	249405	45.750	ug/L	99
39) cis-1,3-Dichloropropene	7.26	75	304604	46.190	ug/L	99
40) 4-Methyl-2-pentanone	7.46	43	693790	90.026	ug/L	99
42) Toluene	7.63	91	745036	44.404	ug/L	98
44) trans-1,3-Dichloropropene	7.88	75	269728	46.484	ug/L	98
45) 1,1,2-Trichloroethane	8.06	97	173071	44.645	ug/L	99
46) Tetrachloroethene	8.22	164	125640	45.260	ug/L	97
48) 2-Hexanone	8.36	43	566088	89.625	ug/L	100
49) Dibromochloromethane	8.47	129	185058	45.942	ug/L	97
50) 1,2-Dibromoethane	8.58	107	187021	44.952	ug/L	99
51) Chlorobenzene	9.12	112	447579	44.014	ug/L	99
52) Ethylbenzene	9.25	91	823919	45.330	ug/L	99
53) m,p-Xylene	9.37	106	299828	45.686	ug/L	96
54) o-xylene	9.77	106	293863	45.890	ug/L	97
55) Styrene	9.79	104	510916	46.317	ug/L	99
56) Isopropylbenzene	10.16	105	773173	45.599	ug/L	100
58) 1,1,2,2-Tetrachloroethane	10.45	83	316520	44.301	ug/L	99
59) 1,2,3-Trichloropropane	10.49	75	247208	44.267	ug/L	98
61) Bromoform	9.95	173	138126	47.432	ug/L	100
62) 1,3-Dichlorobenzene	11.41	146	325903	45.500	ug/L	99
63) 1,4-Dichlorobenzene	11.50	146	329622	44.701	ug/L	98
65) 1,2-Dichlorobenzene	11.87	146	331596	45.784	ug/L	97
66) 1,2-Dibromo-3-chloropropan	12.65	75	71921	44.597	ug/L	94
67) 1,3,5-Trichlorobenzene	12.88	180	244799	45.653	ug/L	99
68) 1,2,4-trichlorobenzene	13.50	180	205015	44.003	ug/L	99
69) Naphthalene	13.74	128	689593	41.625	ug/L	100
70) 1,2,3-Trichlorobenzene	13.98	180	215700	43.843	ug/L	99

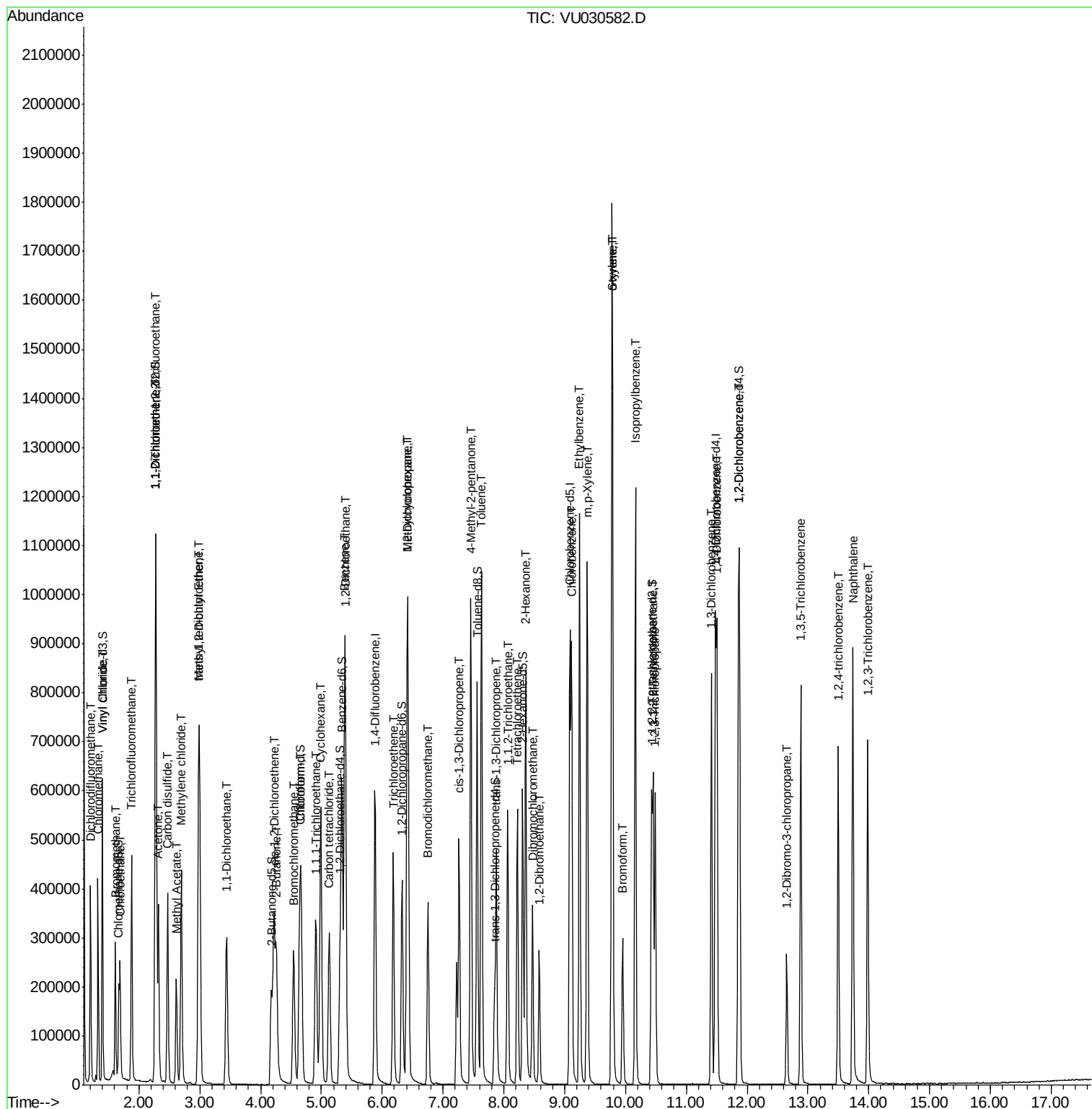
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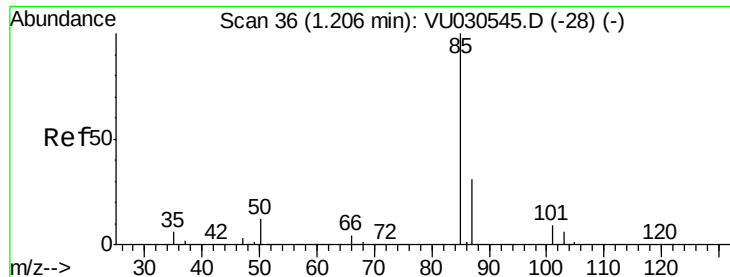
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#2

Dichlorodifluoromethane

Concen: 43.091 ug/L

RT: 1.21 min Scan# 36

Delta R.T. 0.00 min

Lab File: VU030582.D

Acq: 31 Mar 2019 11:52

Instrument :

MSVOA_U

ClientSampleId :

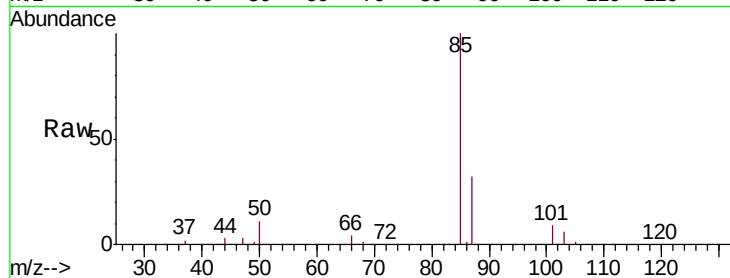
VSTD05042

Tgt Ion: 85 Resp: 230959

Ion Ratio Lower Upper

85 100

87 31.9 25.5 38.3



Abundance Ion 85.00 (84.70 to 85.70): VU030545.D (-28) (-)

Ion 87.00 (86.70 to 87.70): VU030545.D (-28) (-)

1.21

250000

200000

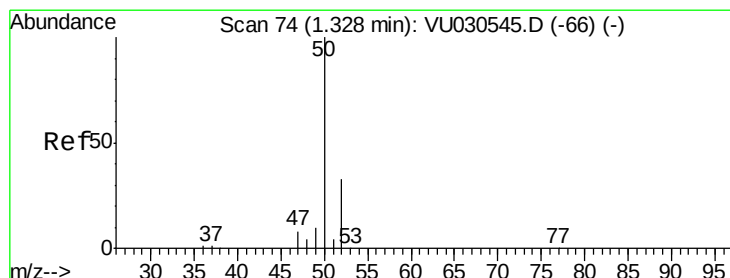
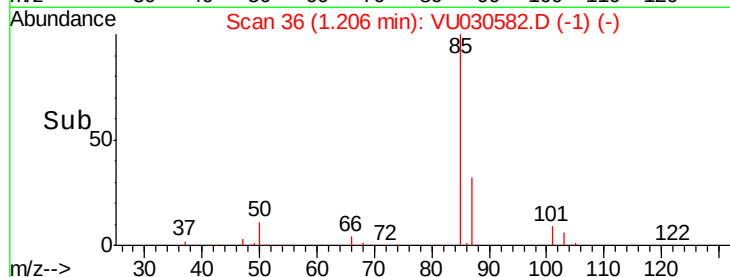
150000

100000

50000

0

Time-->



#3

Chloromethane

Concen: 43.768 ug/L

RT: 1.33 min Scan# 74

Delta R.T. 0.00 min

Lab File: VU030582.D

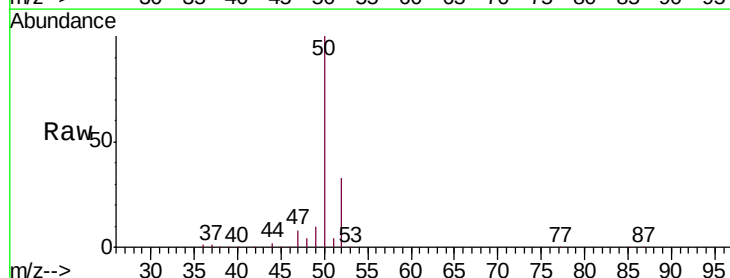
Acq: 31 Mar 2019 11:52

Tgt Ion: 50 Resp: 262363

Ion Ratio Lower Upper

50 100

52 32.7 23.0 42.6



Abundance Ion 50.00 (49.70 to 50.70): VU030545.D (-66) (-)

Ion 52.00 (51.70 to 52.70): VU030545.D (-66) (-)

1.33

300000

250000

200000

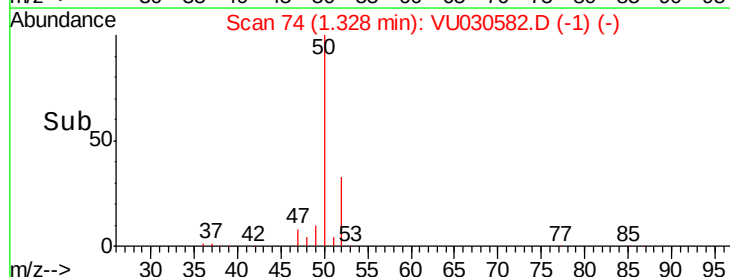
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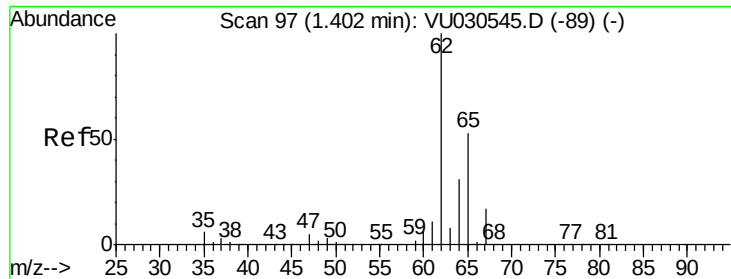
100000

50000

0

Time-->





#5

Vinyl chloride

Concen: 44.546 ug/L

RT: 1.40 min Scan# 97

Delta R.T. 0.00 min

Lab File: VU030582.D

Acq: 31 Mar 2019 11:52

Instrument :

MSVOA_U

ClientSampleId :

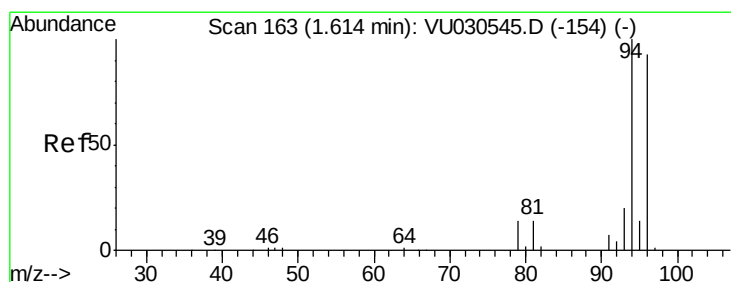
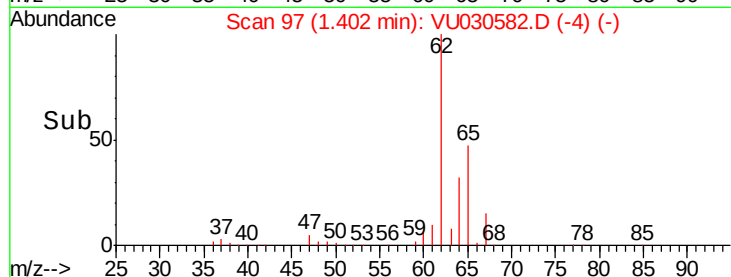
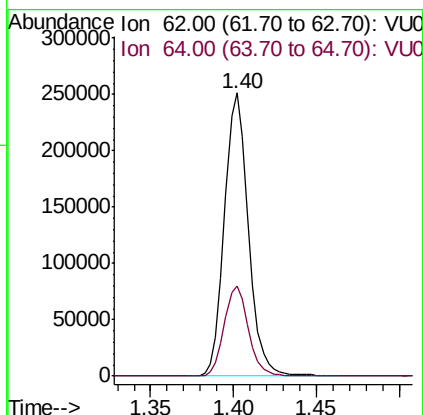
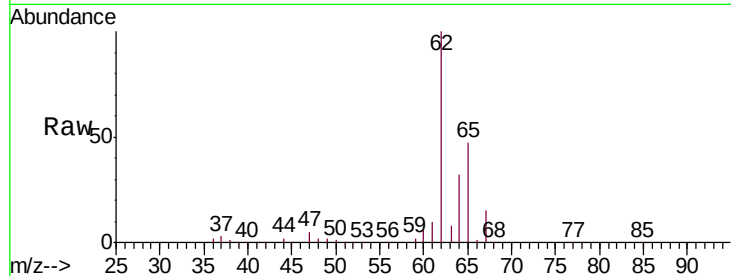
VSTD05042

Tgt Ion: 62 Resp: 253215

Ion Ratio Lower Upper

62 100

64 32.0 22.6 42.0



#6

Bromomethane

Concen: 46.648 ug/L

RT: 1.61 min Scan# 162

Delta R.T. -0.00 min

Lab File: VU030582.D

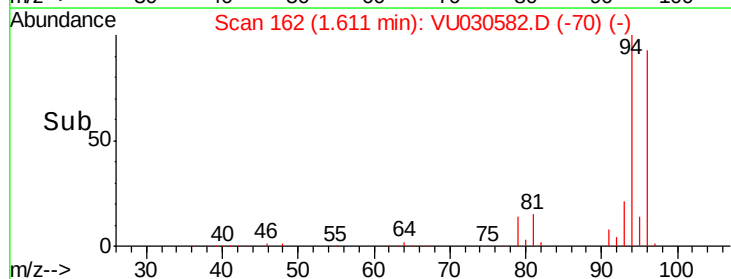
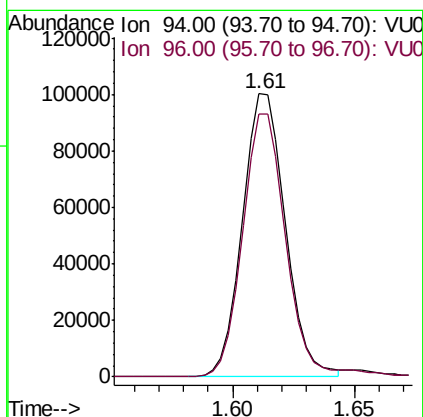
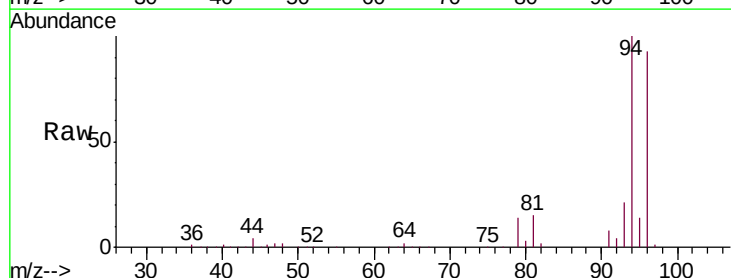
Acq: 31 Mar 2019 11:52

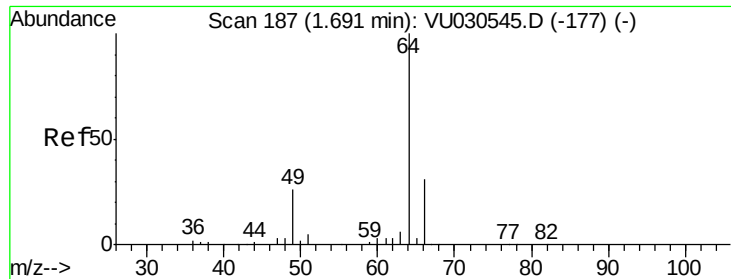
Tgt Ion: 94 Resp: 121641

Ion Ratio Lower Upper

94 100

96 92.8 64.8 120.3

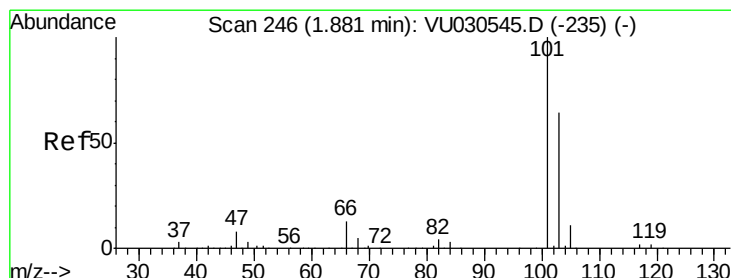
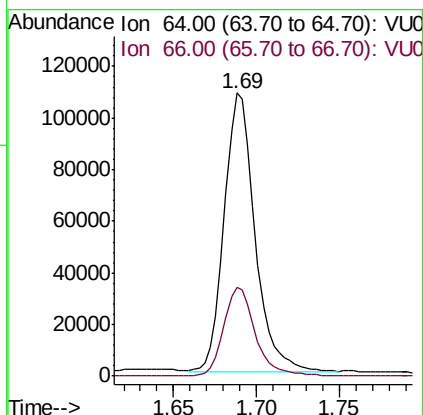
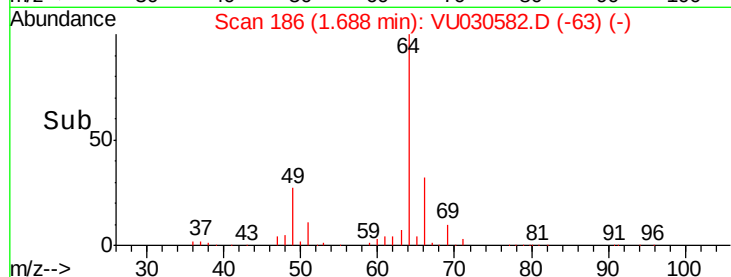
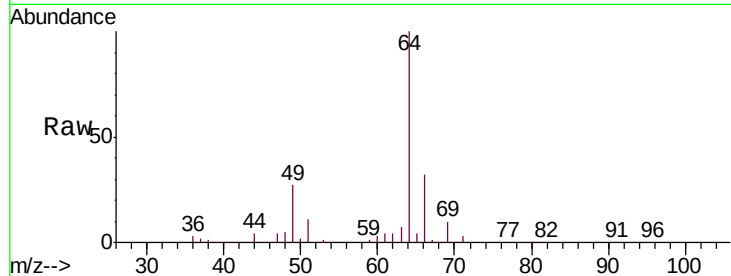




#8
Chloroethane
Concen: 43.268 ug/L
RT: 1.69 min Scan# 186
Delta R.T. -0.00 min
Lab File: VU030582.D
Acq: 31 Mar 2019 11:52

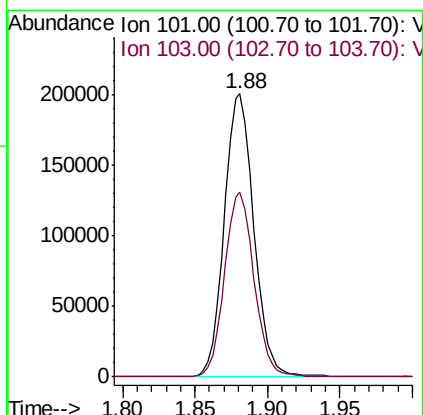
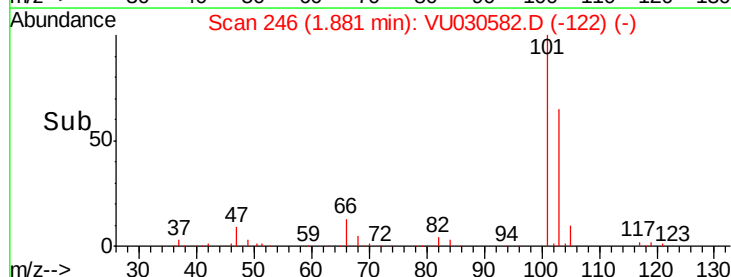
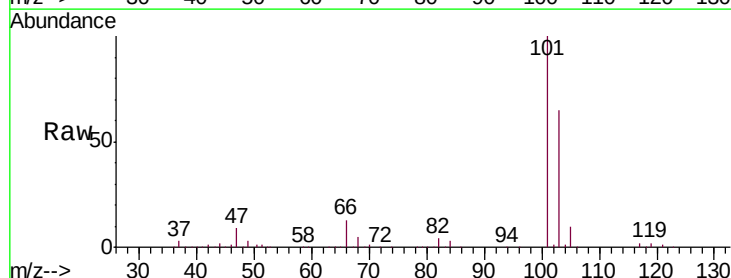
Instrument :
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ClientSampleId :
VSTD05042

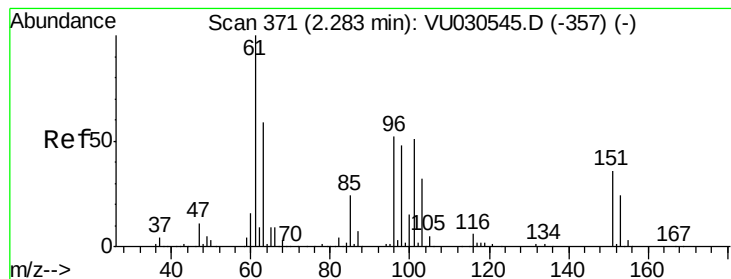
Tgt Ion: 64 Resp: 138851
Ion Ratio Lower Upper
64 100
66 31.6 22.5 41.7



#9
Trichlorofluoromethane
Concen: 46.041 ug/L
RT: 1.88 min Scan# 246
Delta R.T. 0.00 min
Lab File: VU030582.D
Acq: 31 Mar 2019 11:52

Tgt Ion: 101 Resp: 285396
Ion Ratio Lower Upper
101 100
103 64.9 51.1 76.7





#10

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

Concen: 46.192 ug/L

RT: 2.28 min Scan# 371

Delta R.T. 0.00 min

Lab File: VU030582.D

Acq: 31 Mar 2019 11:52

Instrument :

MSVOA_U

ClientSampleId :

VSTD05042

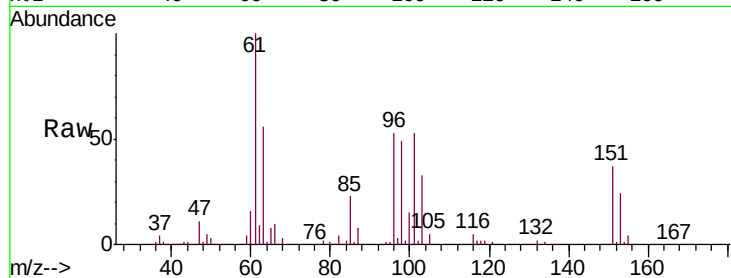
Tgt Ion: 101 Resp: 163767

Ion Ratio Lower Upper

101 100

85 44.5 34.8 52.2

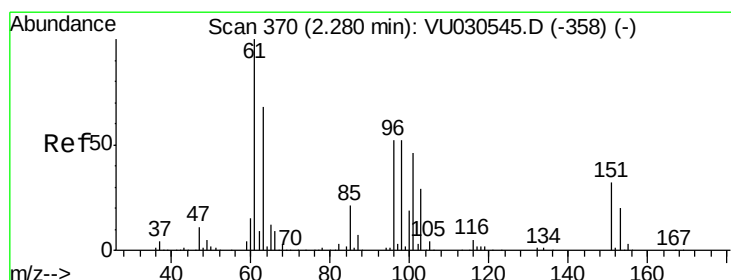
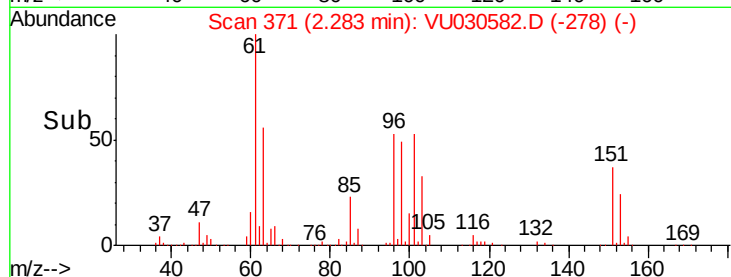
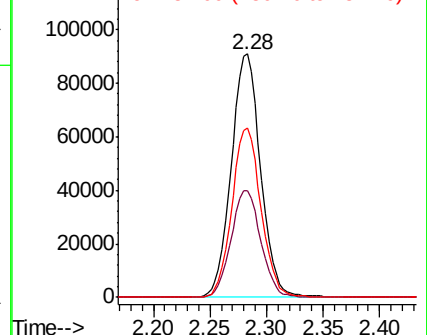
151 69.4 56.6 85.0



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: 43.455 ug/L

RT: 2.28 min Scan# 370

Delta R.T. 0.00 min

Lab File: VU030582.D

Acq: 31 Mar 2019 11:52

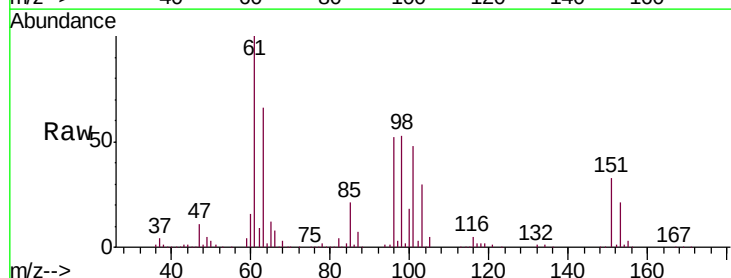
Tgt Ion: 96 Resp: 151031

Ion Ratio Lower Upper

96 100

61 192.1 131.0 243.4

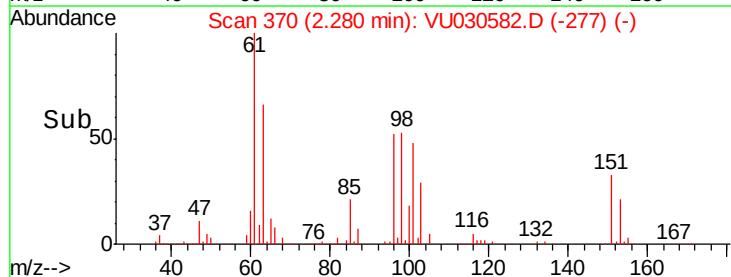
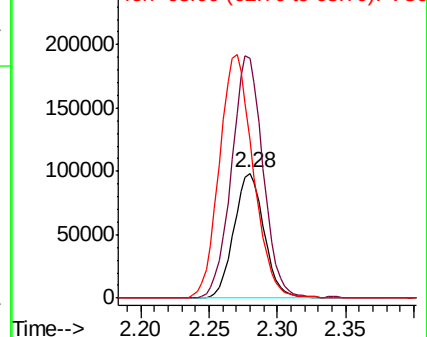
63 126.2 92.4 171.6

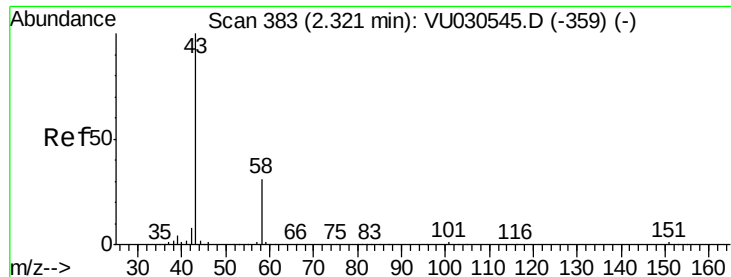


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 98.466 ug/L

RT: 2.32 min Scan# 383

Delta R.T. 0.00 min

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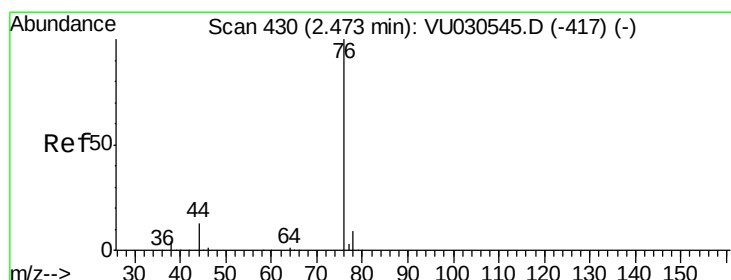
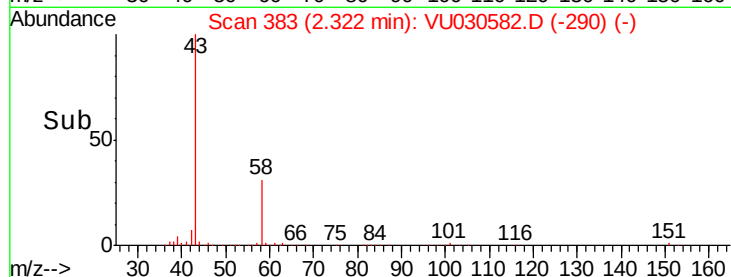
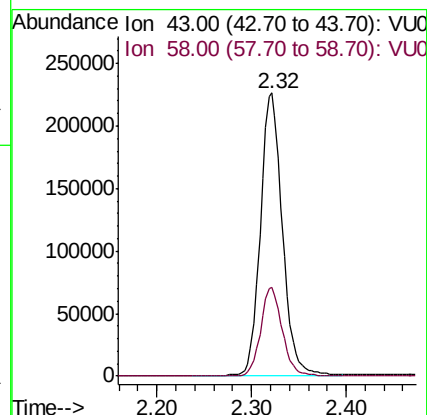
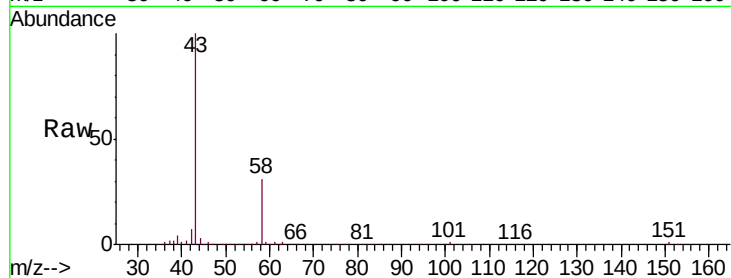
VSTD05042

Tgt Ion: 43 Resp: 365962

Ion Ratio Lower Upper

43 100

58 30.8 0.0 62.8



#14

Carbon disulfide

Concen: 41.574 ug/L

RT: 2.47 min Scan# 430

Delta R.T. 0.00 min

Lab File: VU030582.D

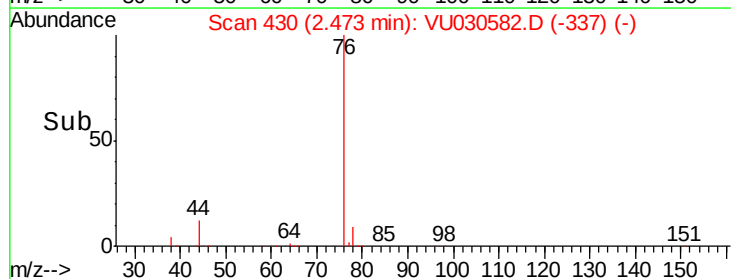
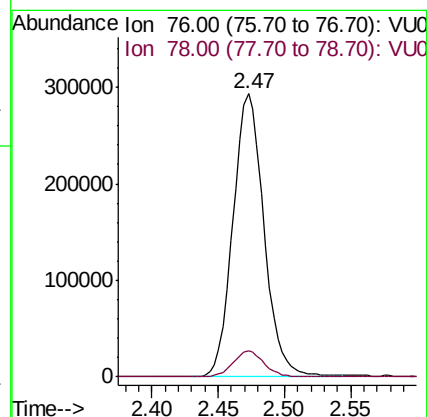
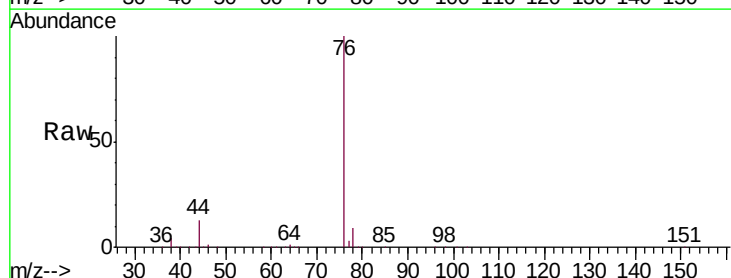
Acq: 31 Mar 2019 11:52

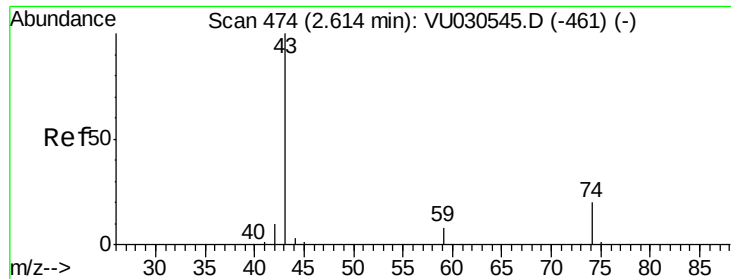
Tgt Ion: 76 Resp: 477756

Ion Ratio Lower Upper

76 100

78 9.1 7.3 10.9

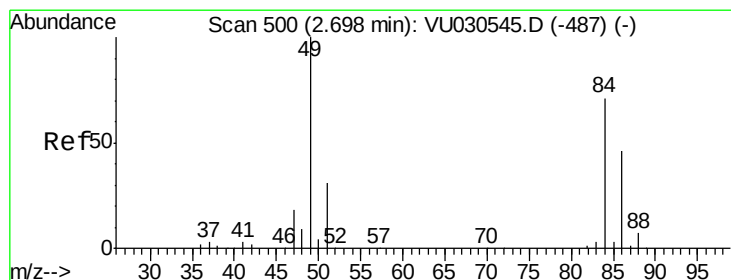
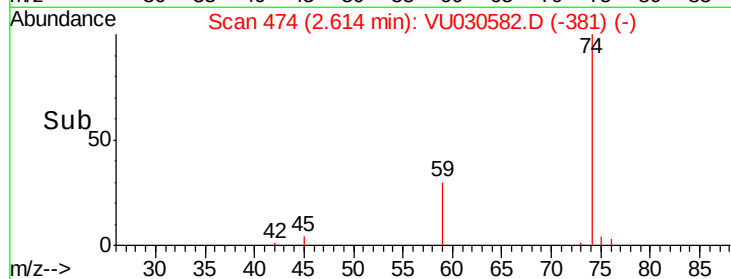
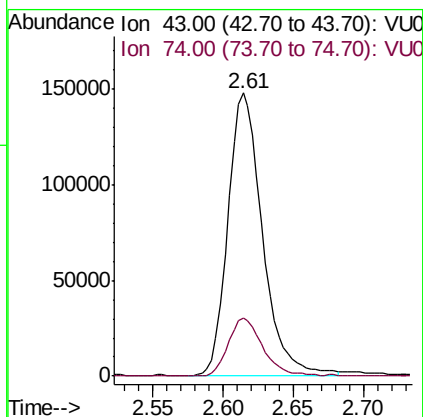
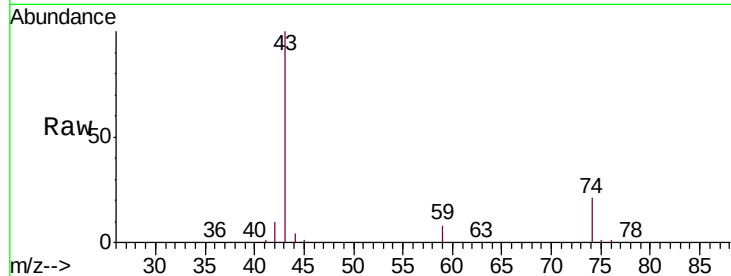




#15
Methyl Acetate
Concen: 44.268 ug/L
RT: 2.61 min Scan# 474
Delta R.T. 0.00 min
Lab File: VU030582.D
Acq: 31 Mar 2019 11:52

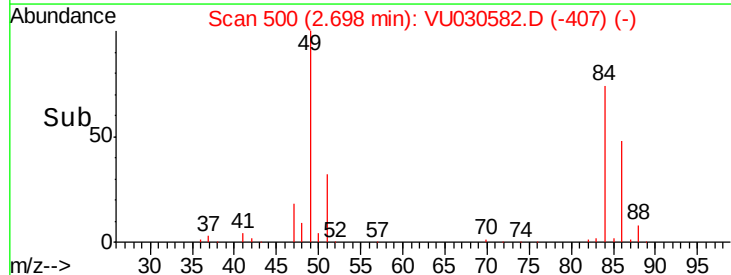
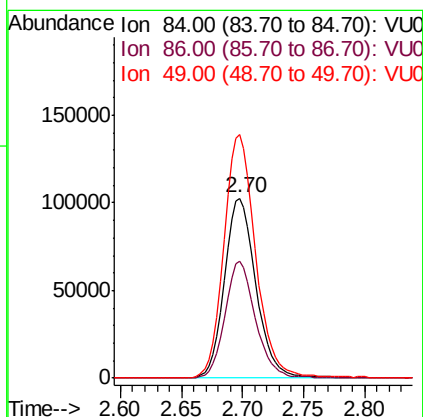
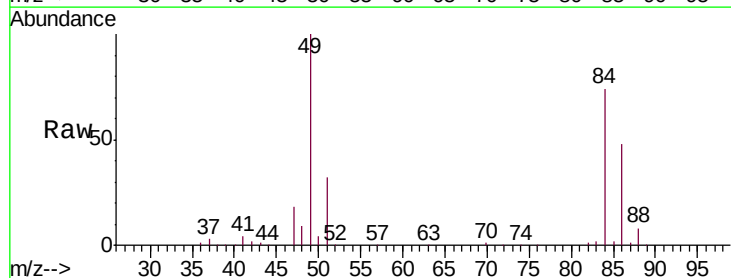
Instrument :
MSVOA_U
ClientSampleId :
VSTD05042

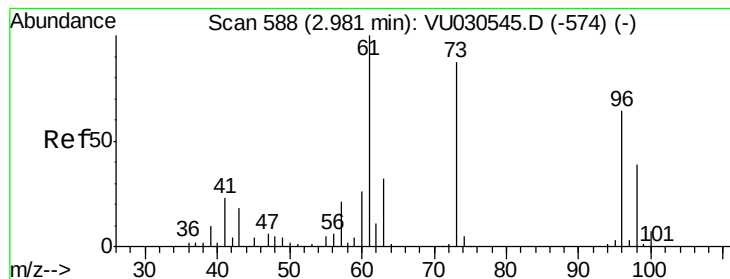
Tgt Ion: 43 Resp: 251923
Ion Ratio Lower Upper
43 100
74 20.6 0.0 0.0#



#16
Methylene chloride
Concen: 45.377 ug/L
RT: 2.70 min Scan# 500
Delta R.T. 0.00 min
Lab File: VU030582.D
Acq: 31 Mar 2019 11:52

Tgt Ion: 84 Resp: 185920
Ion Ratio Lower Upper
84 100
86 65.2 44.3 82.3
49 135.3 94.9 176.3





#17

trans-1,2-Dichloroethene

Concen: 43.511 ug/L

RT: 2.98 min Scan# 587

Delta R.T. -0.00 min

Lab File: VU030582.D

Acq: 31 Mar 2019 11:52

Instrument :

MSVOA_U

ClientSampleId :

VSTD05042

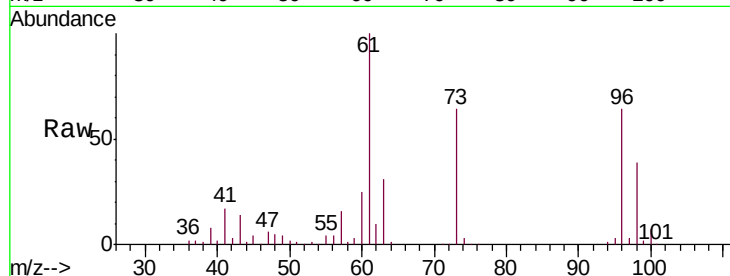
Tgt Ion: 96 Resp: 158657

Ion Ratio Lower Upper

96 100

61 155.5 108.6 201.8

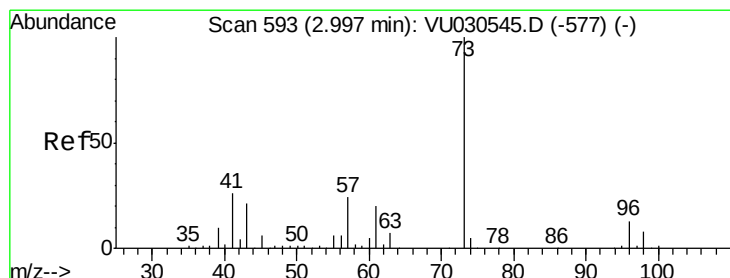
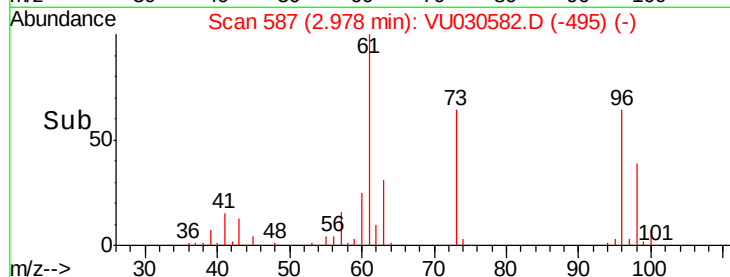
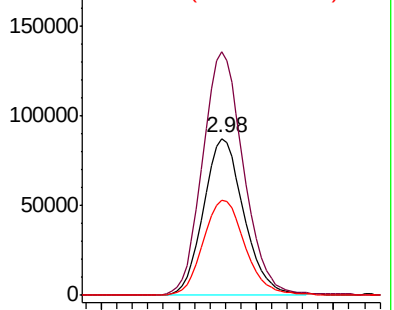
98 60.4 42.3 78.5



Abundance Ion 96.00 (95.70 to 96.70): VU030545.D (-574) (-)

Ion 61.00 (60.70 to 61.70): VU030545.D (-574) (-)

Ion 98.00 (97.70 to 98.70): VU030545.D (-574) (-)



#18

Methyl tert-butyl Ether

Concen: 45.157 ug/L

RT: 3.00 min Scan# 593

Delta R.T. 0.00 min

Lab File: VU030582.D

Acq: 31 Mar 2019 11:52

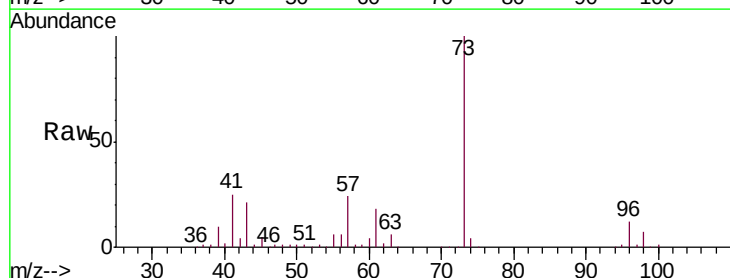
Tgt Ion: 73 Resp: 544515

Ion Ratio Lower Upper

73 100

43 20.8 16.6 24.8

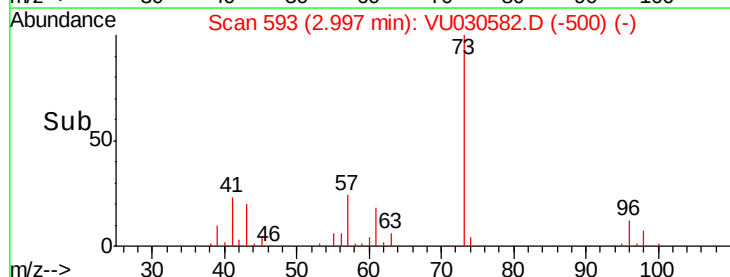
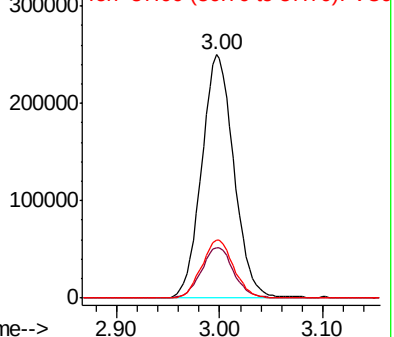
57 23.6 18.9 28.3

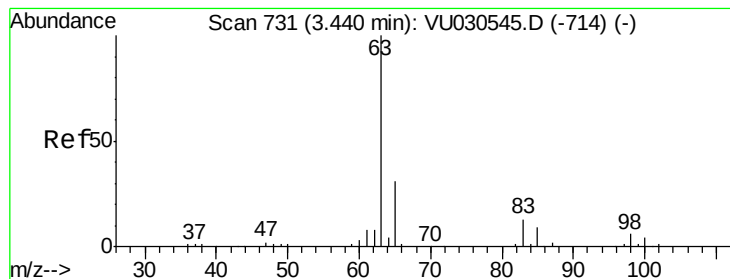


Abundance Ion 73.00 (72.70 to 73.70): VU030545.D (-577) (-)

Ion 43.00 (42.70 to 43.70): VU030545.D (-577) (-)

Ion 57.00 (56.70 to 57.70): VU030545.D (-577) (-)





#19

1,1-Dichloroethane

Concen: 45.664 ug/L

RT: 3.44 min Scan# 731

Delta R.T. 0.00 min

Lab File: VU030582.D

Acq: 31 Mar 2019 11:52

Instrument :

MSVOA_U

ClientSampleId :

VSTD05042

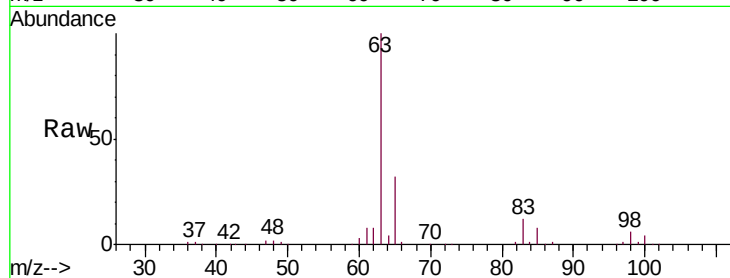
Tgt Ion: 63 Resp: 341607

Ion Ratio Lower Upper

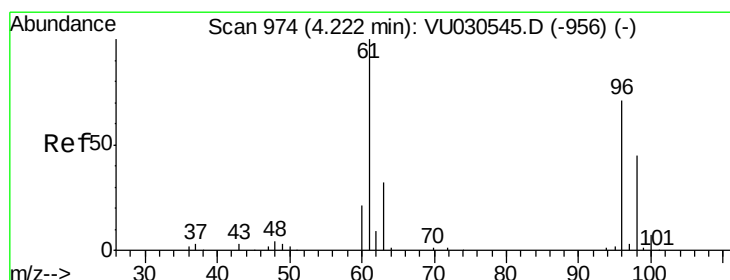
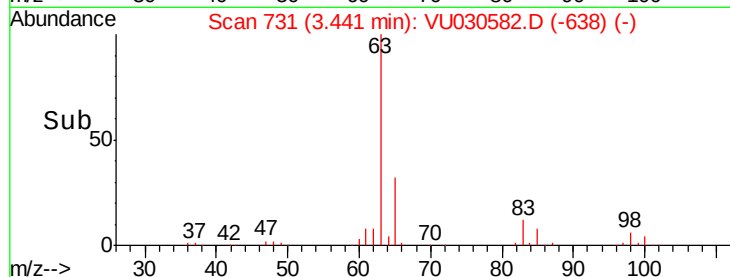
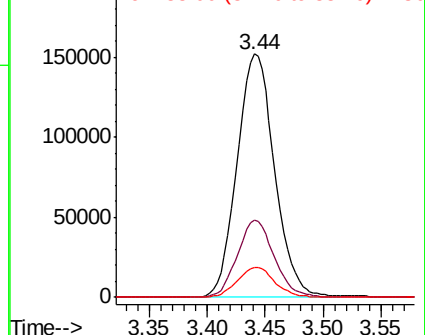
63 100

65 31.8 22.0 40.8

83 12.5 9.1 16.9



Abundance Ion 63.00 (62.70 to 63.70): VU0
Ion 65.00 (64.70 to 65.70): VU0
Ion 83.00 (82.70 to 83.70): VU0



#20

cis-1,2-Dichloroethene

Concen: 43.630 ug/L

RT: 4.22 min Scan# 974

Delta R.T. 0.00 min

Lab File: VU030582.D

Acq: 31 Mar 2019 11:52

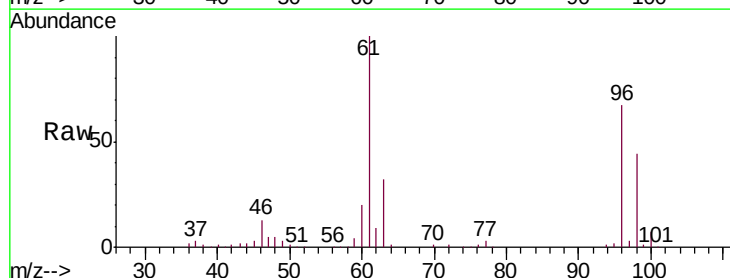
Tgt Ion: 96 Resp: 178420

Ion Ratio Lower Upper

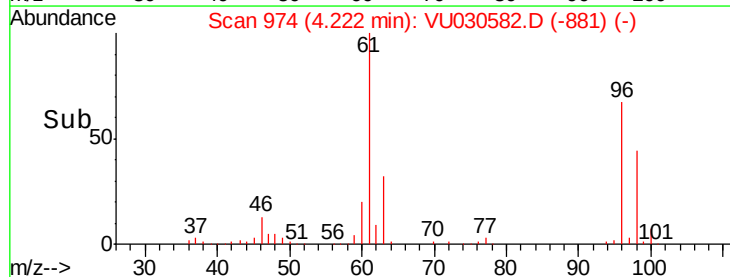
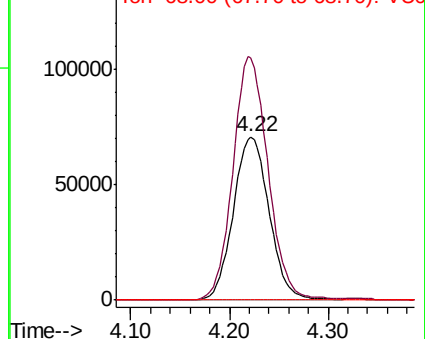
96 100

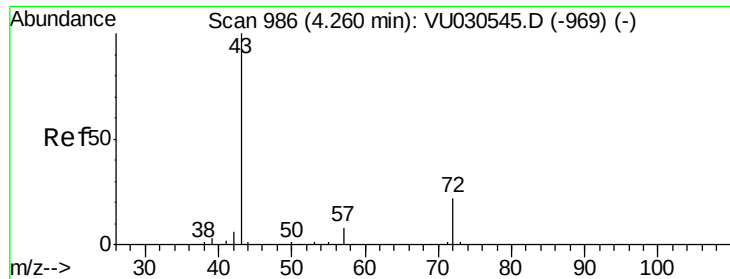
61 148.6 98.4 182.8

68 0.0 0.0 0.0



Abundance Ion 96.00 (95.70 to 96.70): VU0
Ion 61.00 (60.70 to 61.70): VU0
Ion 68.00 (67.70 to 68.70): VU0





#22

2-Butanone

Concen: 93.625 ug/L

RT: 4.26 min Scan# 986

Delta R.T. 0.00 min

Lab File: VU030582.D

Acq: 31 Mar 2019 11:52

Instrument :

MSVOA_U

ClientSampleId :

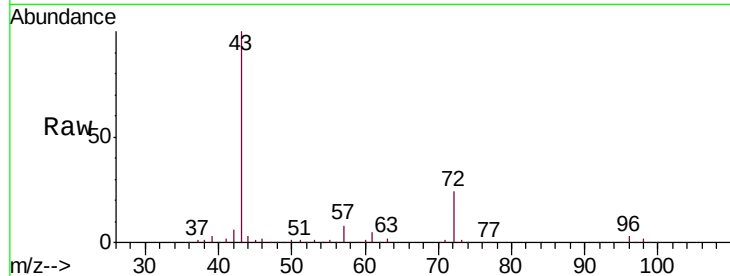
VSTD05042

Tgt Ion: 43 Resp: 420594

Ion Ratio Lower Upper

43 100

72 23.3 12.0 36.1



Abundance Ion 43.00 (42.70 to 43.70): VU030545.D (-969) (-)

Ion 72.00 (71.70 to 72.70): VU030545.D (-969) (-)

4.26

150000

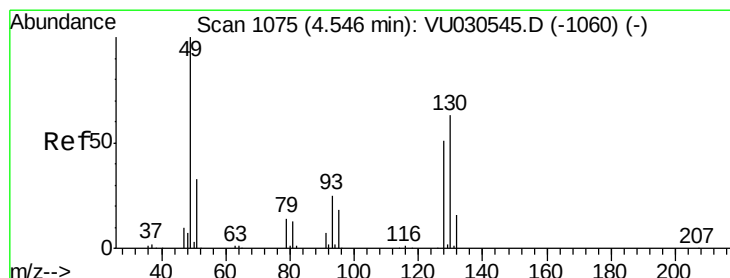
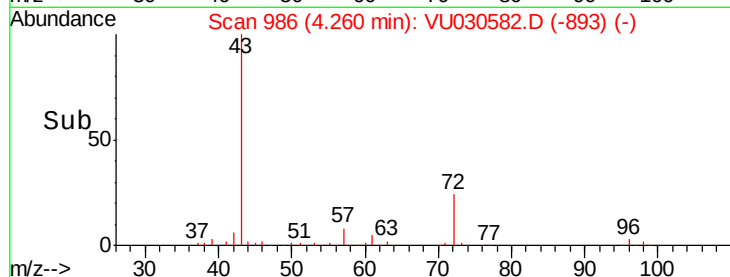
100000

50000

0

4.20 4.30 4.40

Time-->



#23

Bromochloromethane

Concen: 44.555 ug/L

RT: 4.55 min Scan# 1075

Delta R.T. 0.00 min

Lab File: VU030582.D

Acq: 31 Mar 2019 11:52

Tgt Ion: 128 Resp: 84687

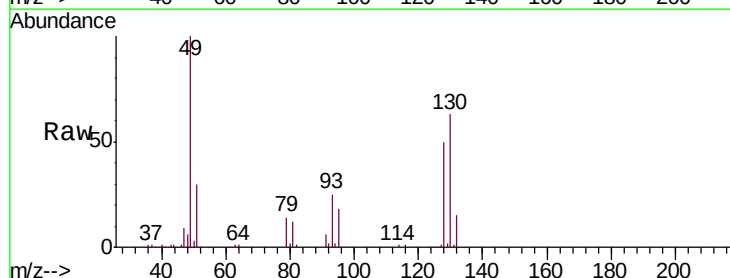
Ion Ratio Lower Upper

128 100

49 200.5 145.5 270.3

130 126.4 95.3 177.1

51 59.4 52.2 78.2



Abundance Ion 128.00 (127.70 to 128.70): VU030545.D (-1060) (-)

Ion 49.00 (48.70 to 49.70): VU030545.D (-1060) (-)

Ion 130.00 (129.70 to 130.70): VU030545.D (-1060) (-)

Ion 51.00 (50.70 to 51.70): VU030545.D (-1060) (-)

120000

100000

80000

60000

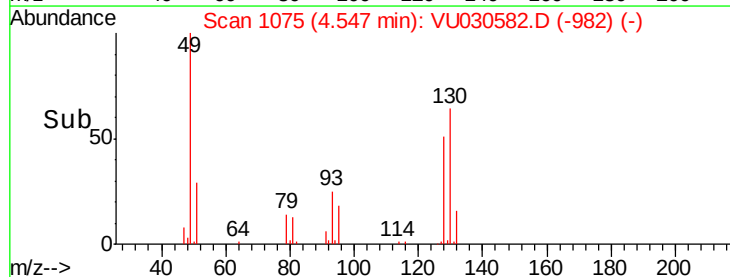
40000

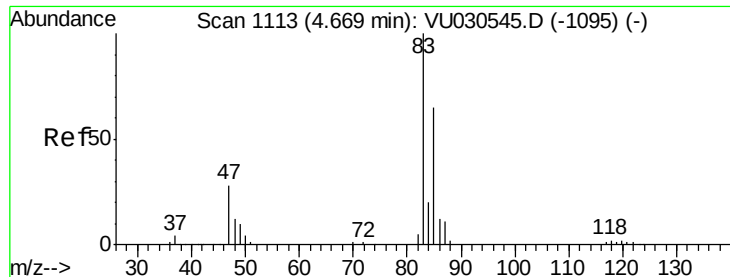
20000

0

4.45 4.50 4.55 4.60

Time-->

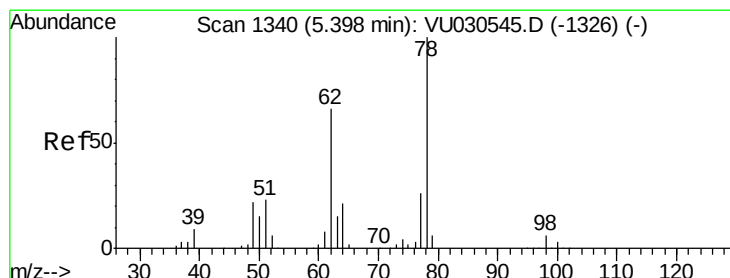
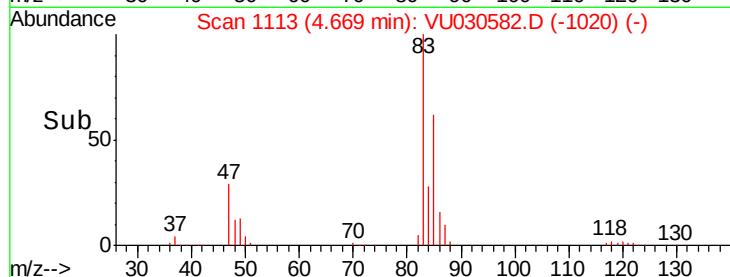
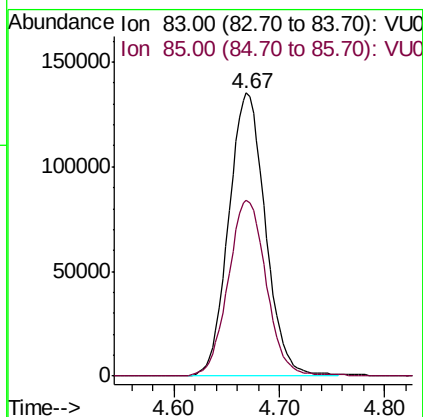
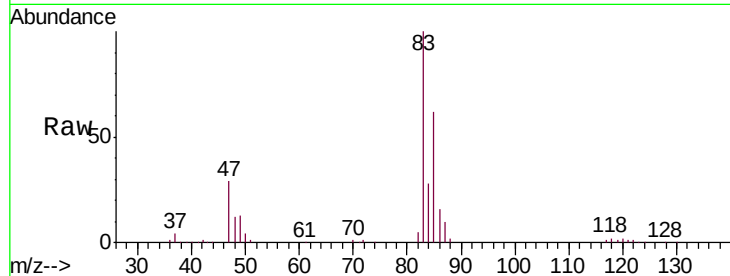




#25
Chloroform
Concen: 45.971 ug/L
RT: 4.67 min Scan# 1113
Delta R.T. 0.00 min
Lab File: VU030582.D
Acq: 31 Mar 2019 11:52

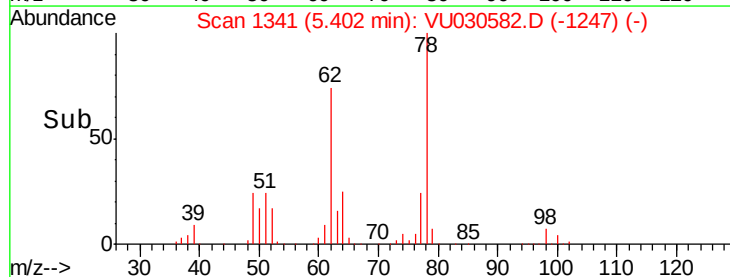
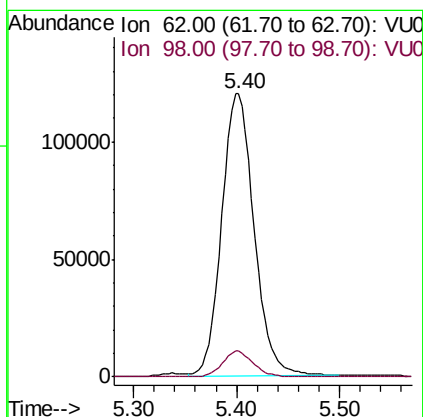
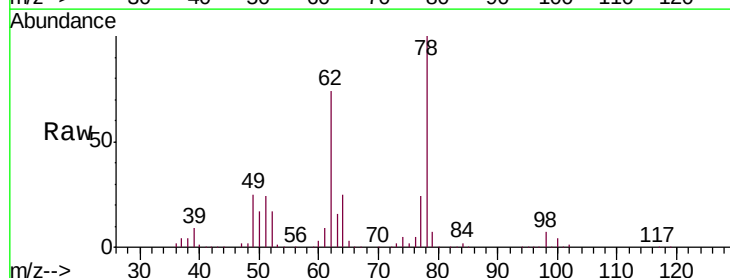
Instrument :
MSVOA_U
ClientSampleId :
VSTD05042

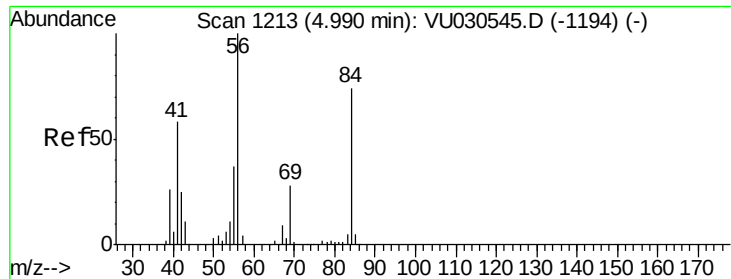
Tgt Ion: 83 Resp: 326976
Ion Ratio Lower Upper
83 100
85 62.3 44.4 82.4



#27
1,2-Dichloroethane
Concen: 47.001 ug/L
RT: 5.40 min Scan# 1341
Delta R.T. 0.00 min
Lab File: VU030582.D
Acq: 31 Mar 2019 11:52

Tgt Ion: 62 Resp: 262327
Ion Ratio Lower Upper
62 100
98 9.3 7.2 10.8

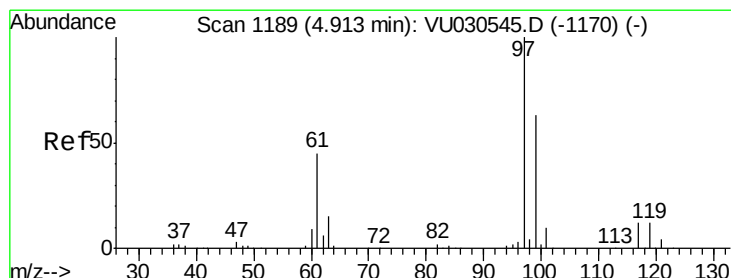
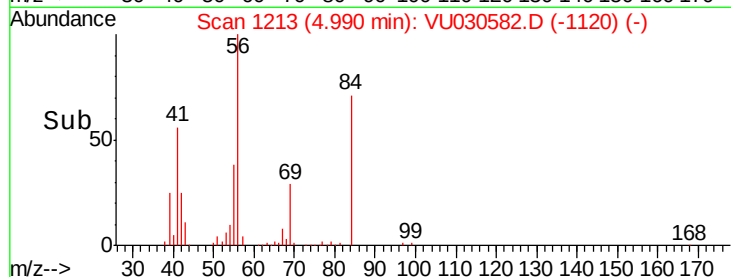
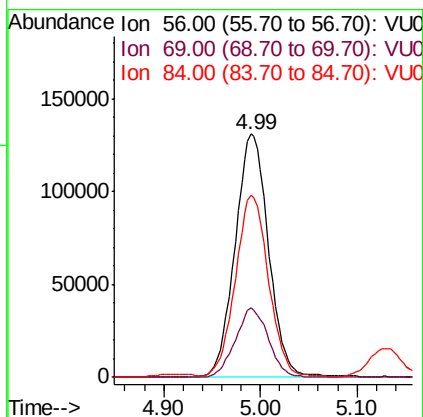
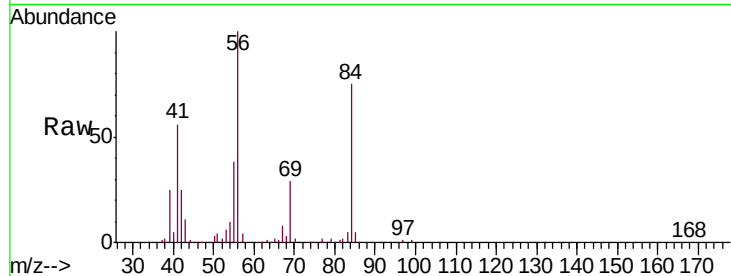




#29
Cyclohexane
Concen: 43.852 ug/L
RT: 4.99 min Scan# 1213
Delta R.T. 0.00 min
Lab File: VU030582.D
Acq: 31 Mar 2019 11:52

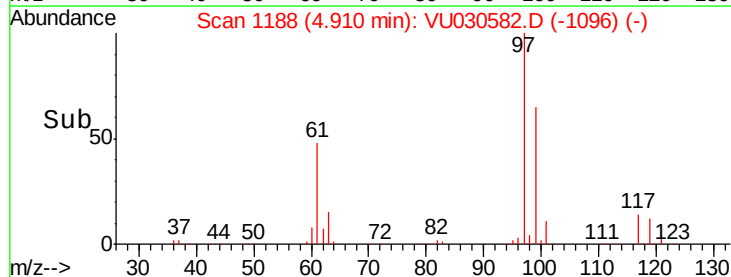
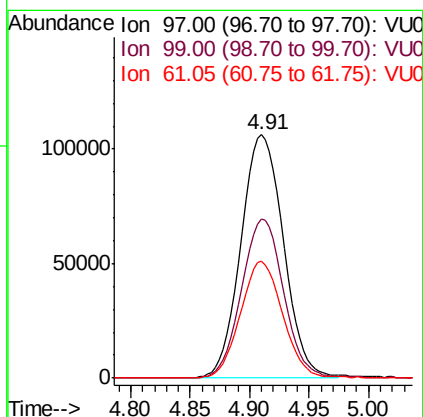
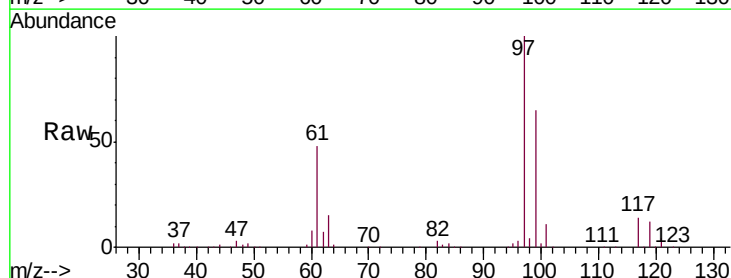
Instrument :
MSVOA_U
ClientSampleId :
VSTD05042

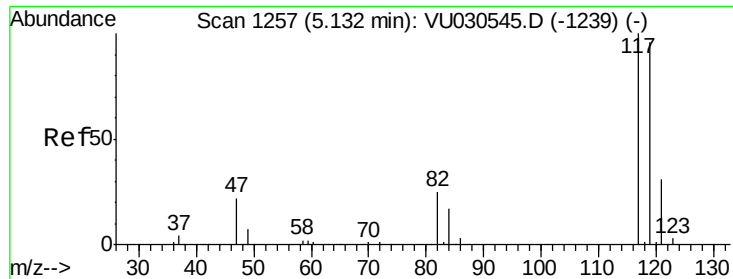
Tgt Ion: 56 Resp: 315175
Ion Ratio Lower Upper
56 100
69 28.0 22.9 34.3
84 73.3 58.9 88.3



#30
1,1,1-Trichloroethane
Concen: 45.398 ug/L
RT: 4.91 min Scan# 1188
Delta R.T. -0.00 min
Lab File: VU030582.D
Acq: 31 Mar 2019 11:52

Tgt Ion: 97 Resp: 264005
Ion Ratio Lower Upper
97 100
99 64.5 51.8 77.6
61 47.7 38.2 57.4





#31

Carbon tetrachloride

Concen: 45.506 ug/L

RT: 5.13 min Scan# 1256

Delta R.T. -0.00 min

Lab File: VU030582.D

Acq: 31 Mar 2019 11:52

Instrument :

MSVOA_U

ClientSampleId :

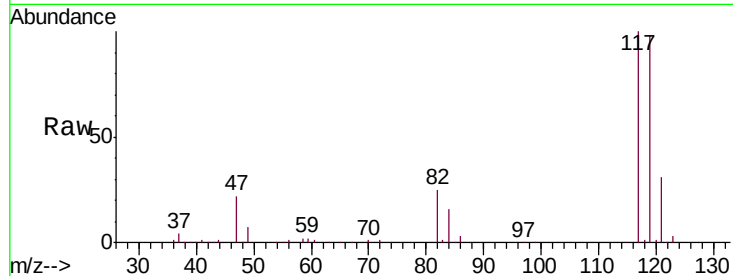
VSTD05042

Tgt Ion:117 Resp: 224301

Ion Ratio Lower Upper

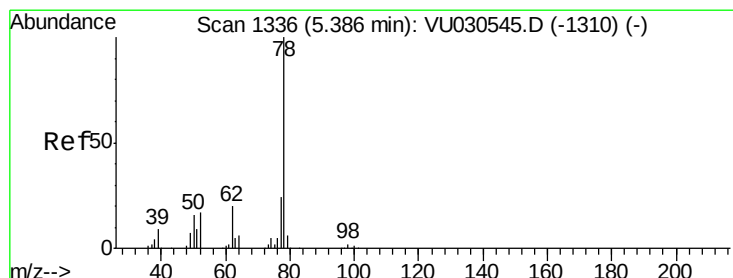
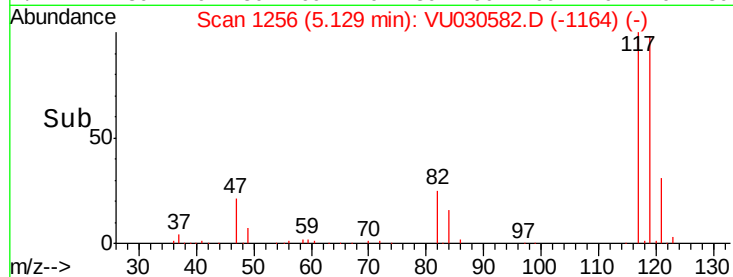
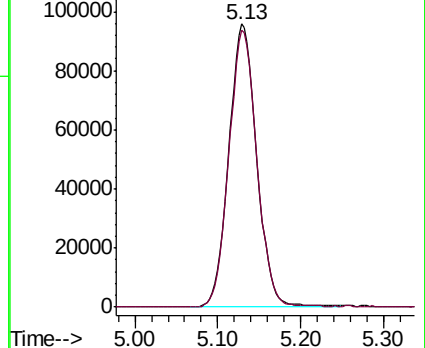
117 100

119 97.4 75.4 113.2



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V



#33

Benzene

Concen: 44.543 ug/L

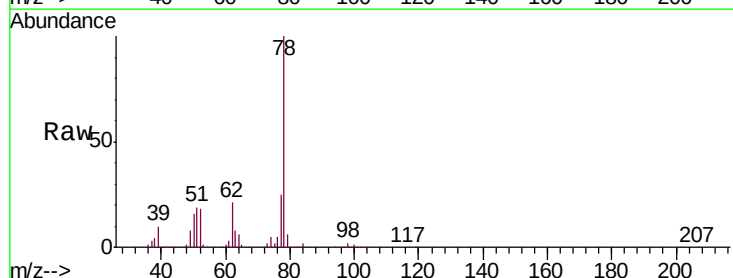
RT: 5.39 min Scan# 1336

Delta R.T. 0.00 min

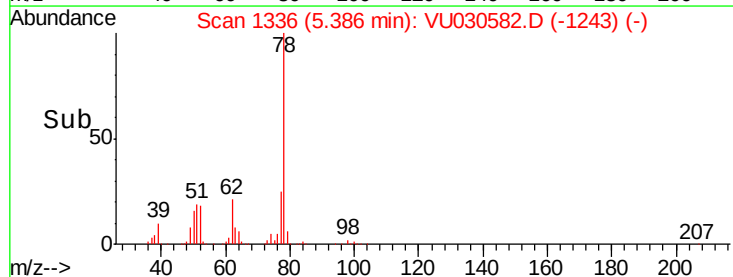
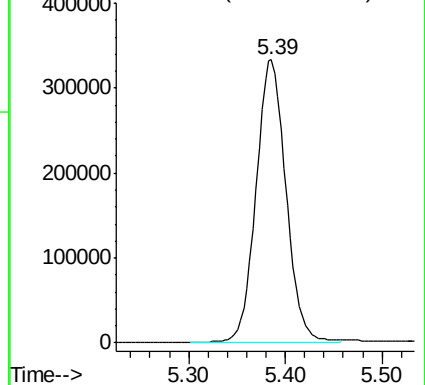
Lab File: VU030582.D

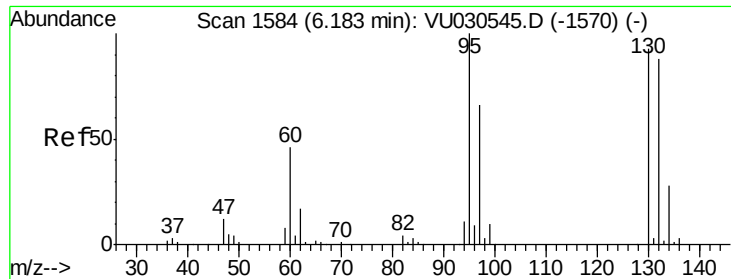
Acq: 31 Mar 2019 11:52

Tgt Ion: 78 Resp: 720128



Abundance Ion 78.00 (77.70 to 78.70): VU0





#34

Trichloroethene

Concen: 44.199 ug/L

RT: 6.18 min Scan# 1584

Delta R.T. 0.00 min

Lab File: VU030582.D

Acq: 31 Mar 2019 11:52

Instrument :

MSVOA_U

ClientSampleId :

VSTD05042

Tgt Ion: 95 Resp: 175665

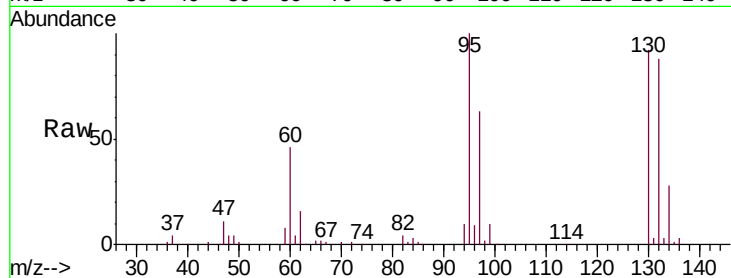
Ion Ratio Lower Upper

95 100

97 63.1 45.7 84.9

132 88.2 63.8 118.4

130 92.1 65.7 121.9

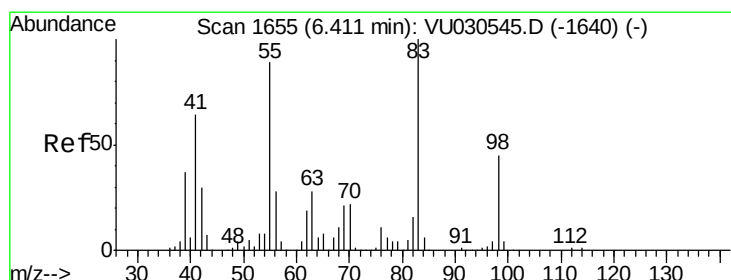
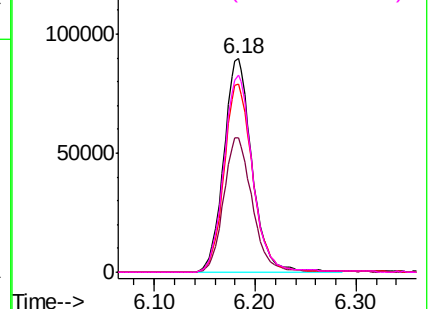
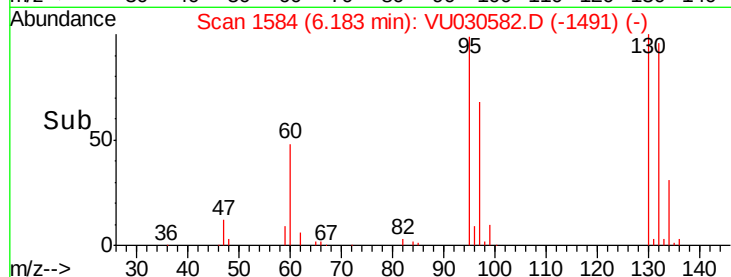


Abundance Ion 95.00 (94.70 to 95.70): VU030582.D (-1570) (-)

Ion 97.00 (96.70 to 97.70): VU030582.D (-1570) (-)

Ion 132.00 (131.70 to 132.70): VU030582.D (-1570) (-)

Ion 130.00 (129.70 to 130.70): VU030582.D (-1570) (-)



#35

Methylcyclohexane

Concen: 43.988 ug/L

RT: 6.41 min Scan# 1655

Delta R.T. 0.00 min

Lab File: VU030582.D

Acq: 31 Mar 2019 11:52

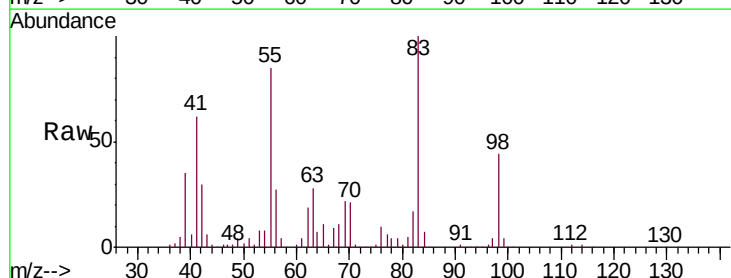
Tgt Ion: 83 Resp: 287685

Ion Ratio Lower Upper

83 100

55 88.8 71.4 107.0

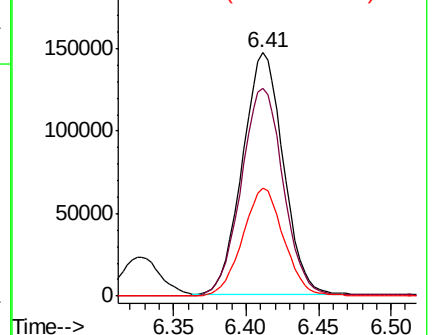
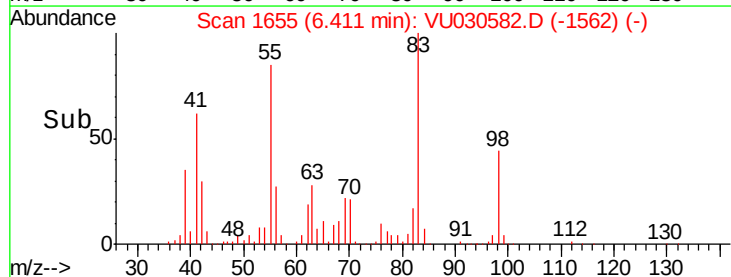
98 45.1 36.0 54.0

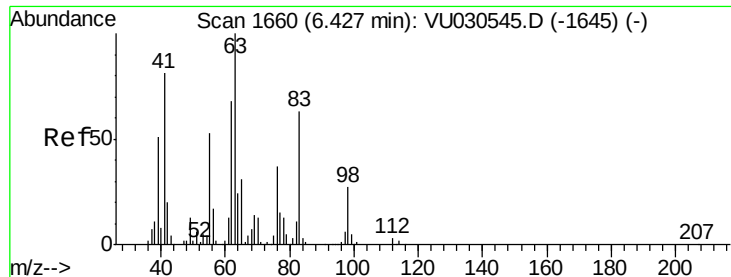


Abundance Ion 83.00 (82.70 to 83.70): VU030582.D (-1640) (-)

Ion 55.00 (54.70 to 55.70): VU030582.D (-1640) (-)

Ion 98.00 (97.70 to 98.70): VU030582.D (-1640) (-)

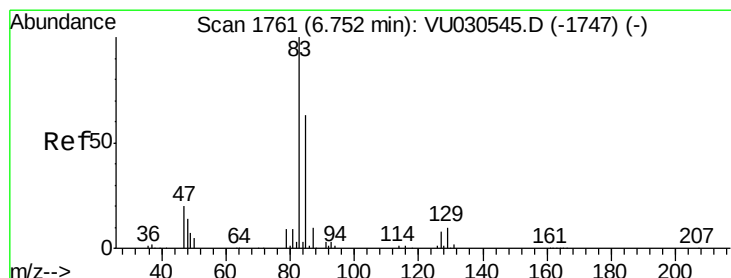
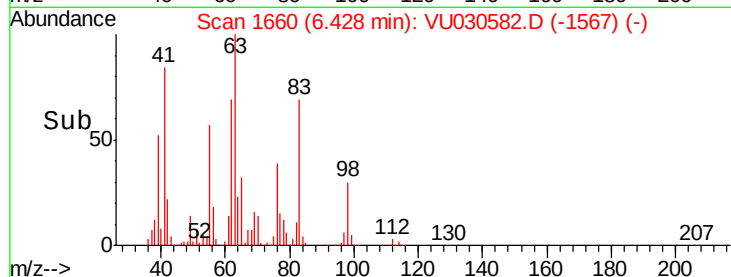
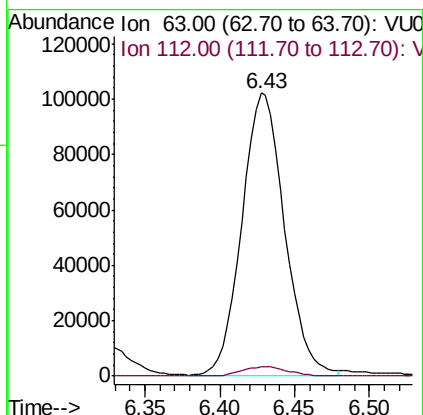
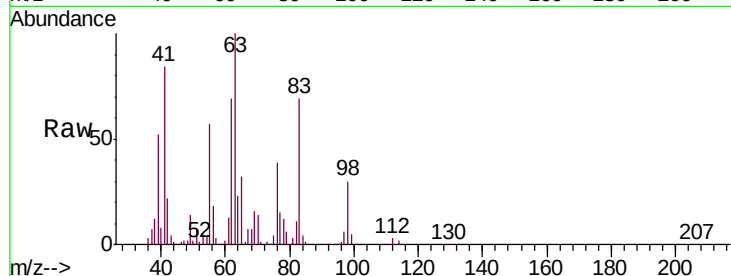




#37
 1,2-Dichloropropane
 Concen: 43.902 ug/L
 RT: 6.43 min Scan# 1660
 Delta R.T. 0.00 min
 Lab File: VU030582.D
 Acq: 31 Mar 2019 11:52

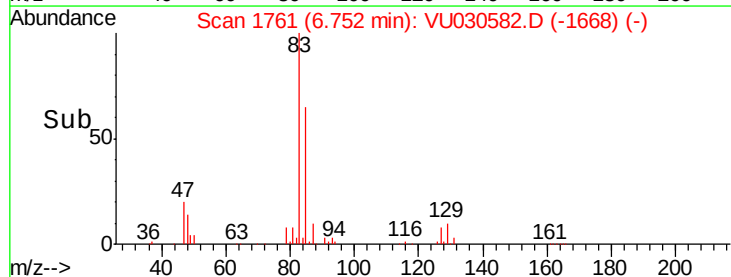
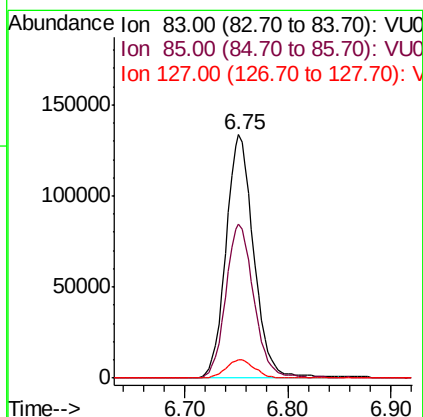
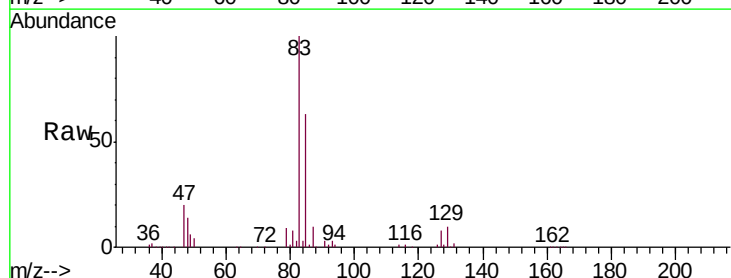
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05042

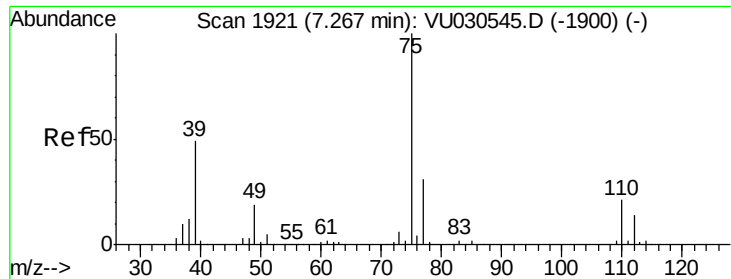
Tgt Ion: 63 Resp: 201424
 Ion Ratio Lower Upper
 63 100
 112 3.7 2.6 4.0



#38
 Bromodichloromethane
 Concen: 45.750 ug/L
 RT: 6.75 min Scan# 1761
 Delta R.T. 0.00 min
 Lab File: VU030582.D
 Acq: 31 Mar 2019 11:52

Tgt Ion: 83 Resp: 249405
 Ion Ratio Lower Upper
 83 100
 85 63.4 45.0 83.6
 127 7.6 6.6 10.0

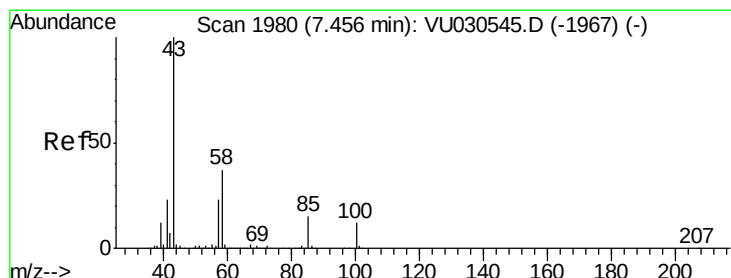
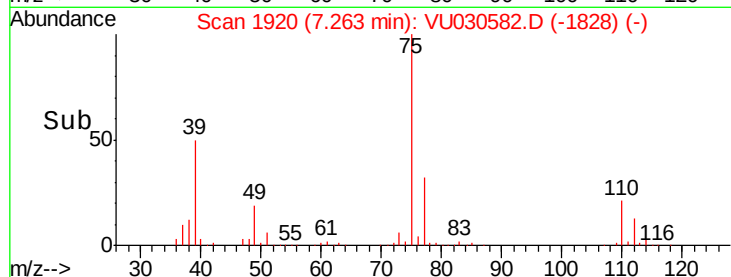
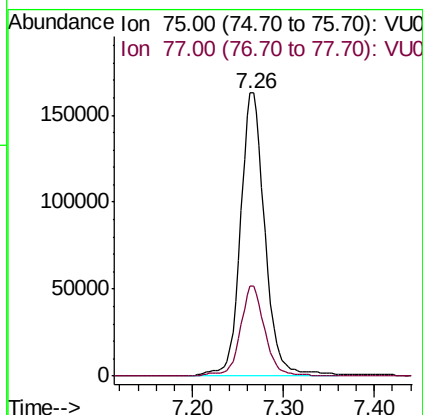
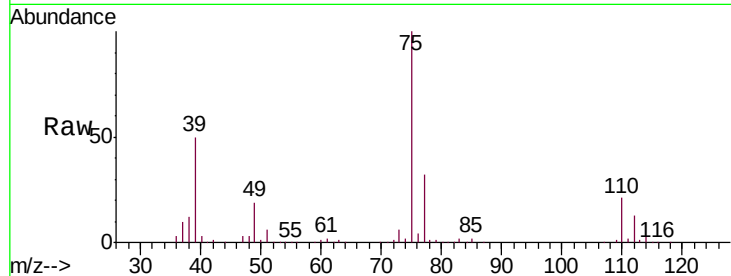




#39
 cis-1,3-Dichloropropene
 Concen: 46.190 ug/L
 RT: 7.26 min Scan# 1920
 Delta R.T. -0.00 min
 Lab File: VU030582.D
 Acq: 31 Mar 2019 11:52

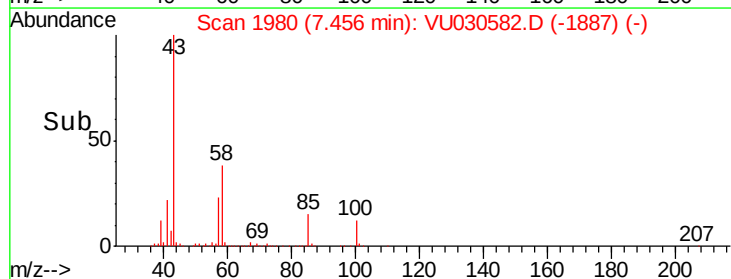
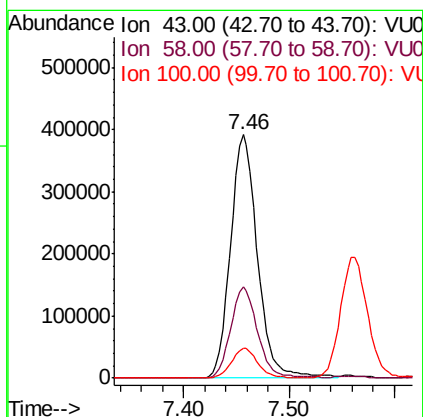
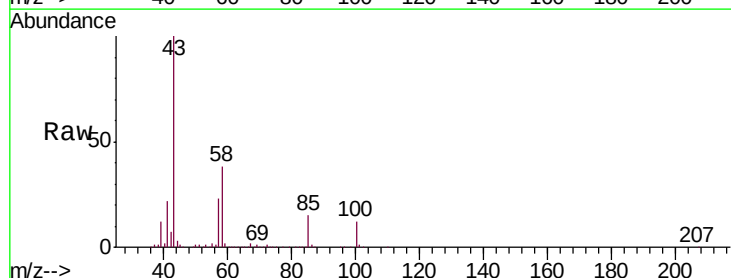
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05042

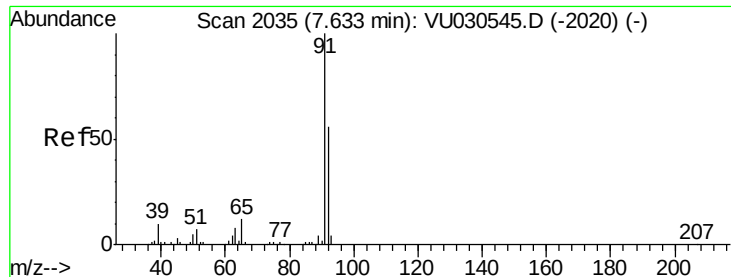
Tgt Ion: 75 Resp: 304604
 Ion Ratio Lower Upper
 75 100
 77 31.8 21.8 40.6



#40
 4-Methyl-2-pentanone
 Concen: 90.026 ug/L
 RT: 7.46 min Scan# 1980
 Delta R.T. 0.00 min
 Lab File: VU030582.D
 Acq: 31 Mar 2019 11:52

Tgt Ion: 43 Resp: 693790
 Ion Ratio Lower Upper
 43 100
 58 37.4 30.6 45.8
 100 11.9 9.5 14.3





#42

Toluene

Concen: 44.404 ug/L

RT: 7.63 min Scan# 2035

Delta R.T. 0.00 min

Lab File: VU030582.D

Acq: 31 Mar 2019 11:52

Instrument :

MSVOA_U

ClientSampleId :

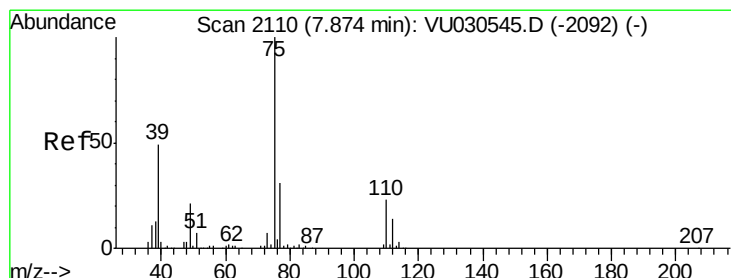
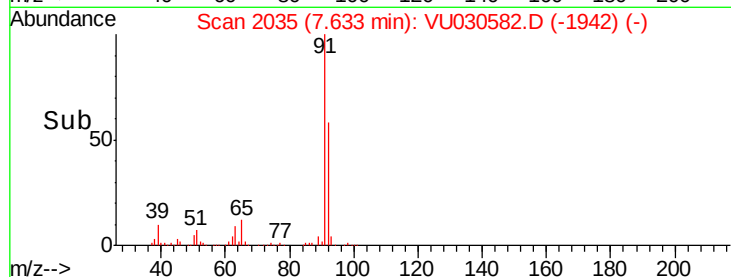
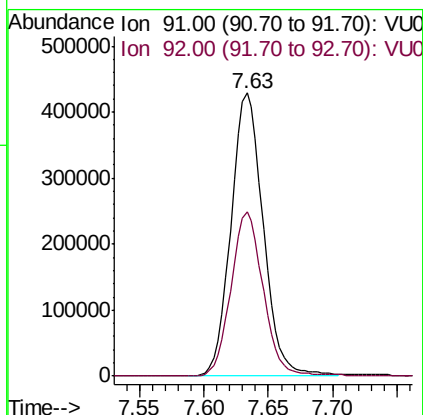
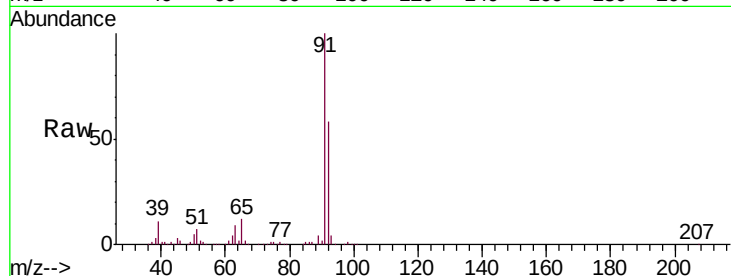
VSTD05042

Tgt Ion: 91 Resp: 745036

Ion Ratio Lower Upper

91 100

92 57.9 39.7 73.7



#44

trans-1,3-Dichloropropene

Concen: 46.484 ug/L

RT: 7.88 min Scan# 2111

Delta R.T. 0.00 min

Lab File: VU030582.D

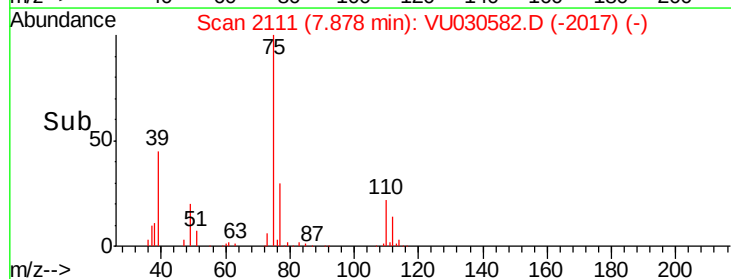
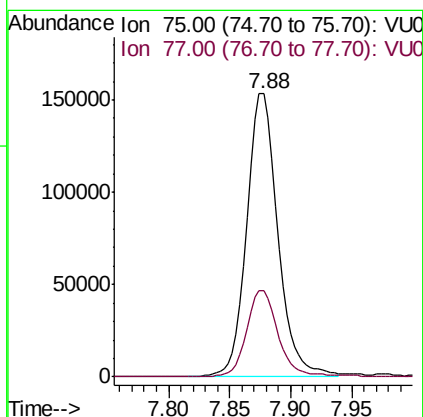
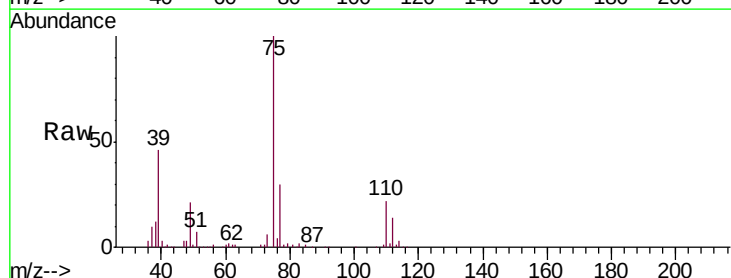
Acq: 31 Mar 2019 11:52

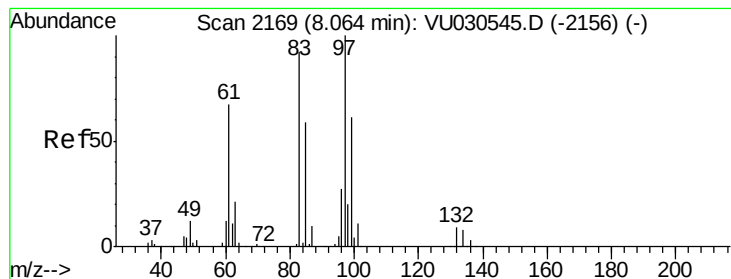
Tgt Ion: 75 Resp: 269728

Ion Ratio Lower Upper

75 100

77 30.3 22.0 40.8





#45

1,1,2-Trichloroethane

Concen: 44.645 ug/L

RT: 8.06 min Scan# 2169

Delta R.T. 0.00 min

Lab File: VU030582.D

Acq: 31 Mar 2019 11:52

Instrument :

MSVOA_U

ClientSampleId :

VSTD05042

Tgt Ion: 97 Resp: 173071

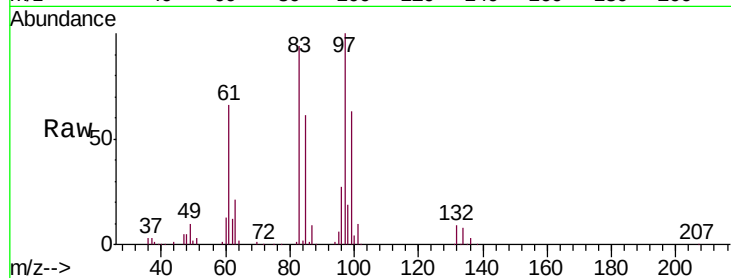
Ion Ratio Lower Upper

97 100

99 63.1 44.0 81.8

83 93.7 65.3 121.3

85 60.6 41.8 77.6

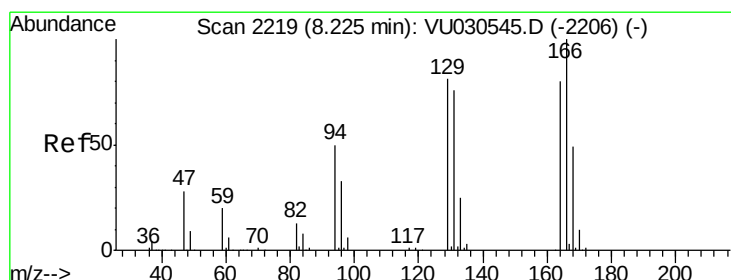
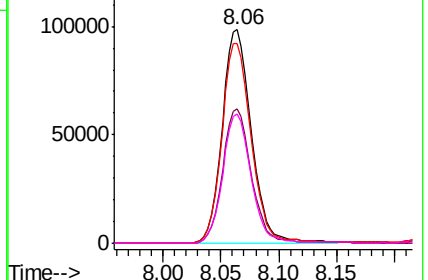
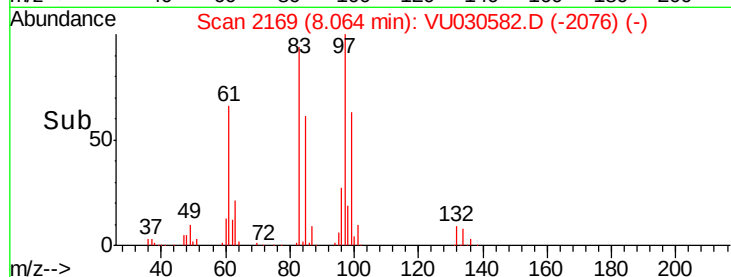


Abundance Ion 97.00 (96.70 to 97.70): VU0

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: 45.260 ug/L

RT: 8.22 min Scan# 2219

Delta R.T. 0.00 min

Lab File: VU030582.D

Acq: 31 Mar 2019 11:52

Tgt Ion: 164 Resp: 125640

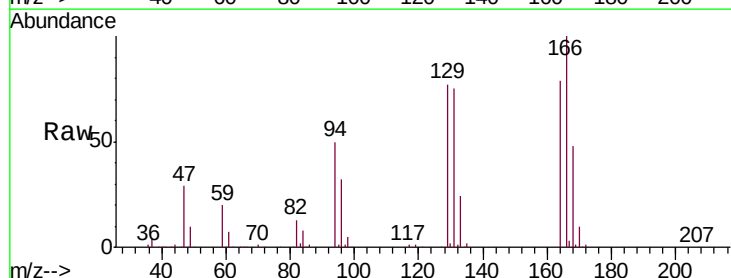
Ion Ratio Lower Upper

164 100

129 97.6 68.1 126.5

131 94.3 67.7 125.7

166 126.4 92.4 171.6

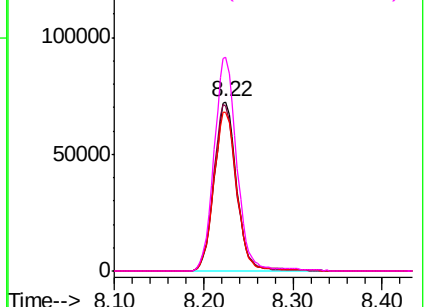
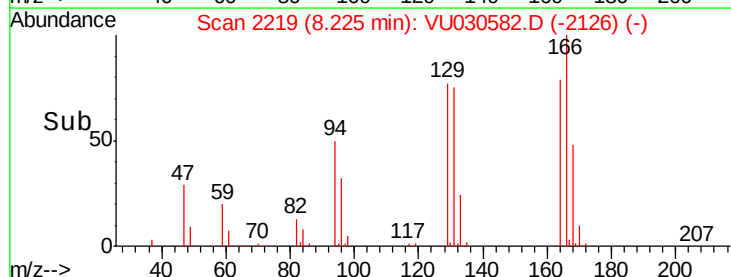


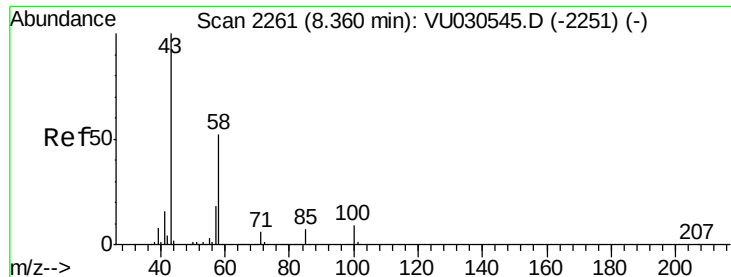
Abundance Ion 164.00 (163.70 to 164.70): V

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

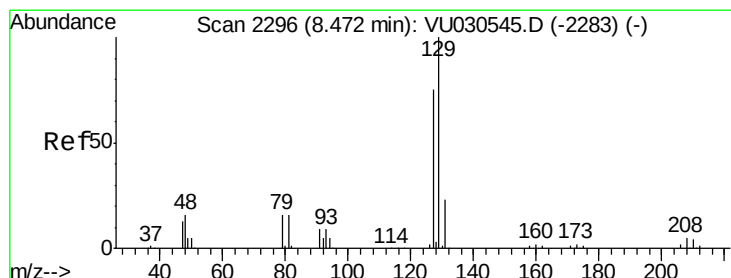
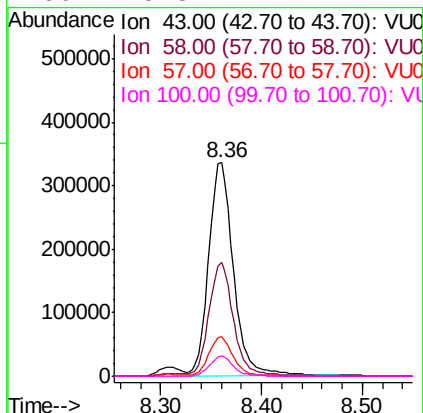
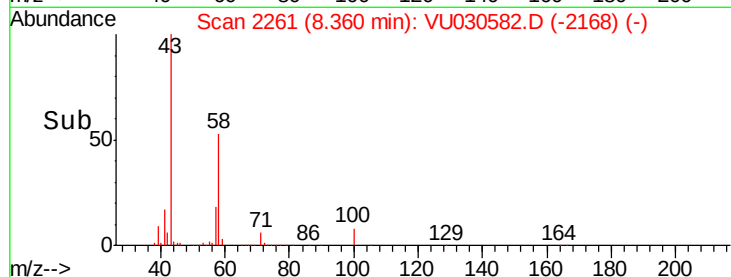
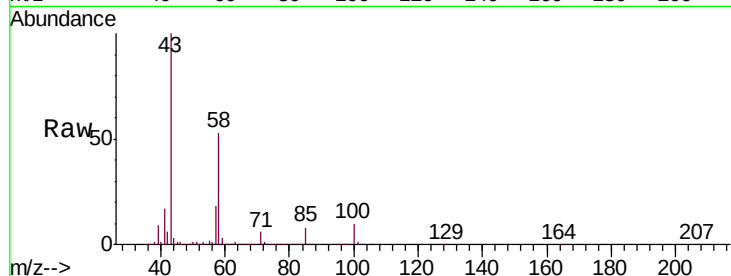




#48
2-Hexanone
Concen: 89.625 ug/L
RT: 8.36 min Scan# 2261
Delta R.T. 0.00 min
Lab File: VU030582.D
Acq: 31 Mar 2019 11:52

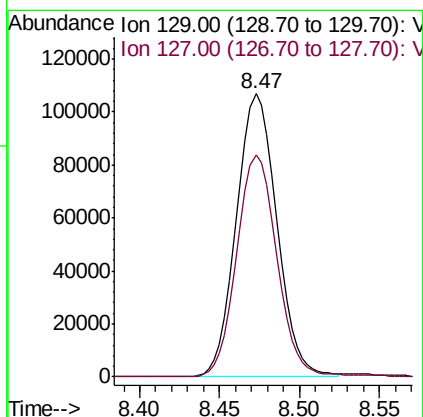
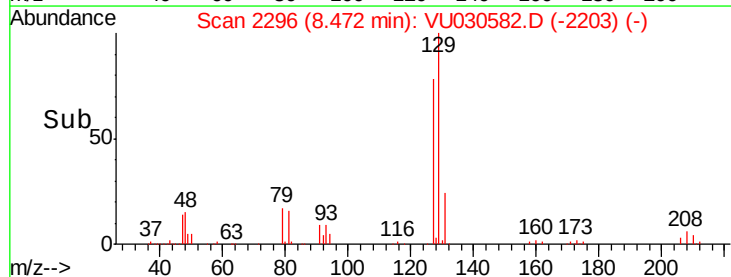
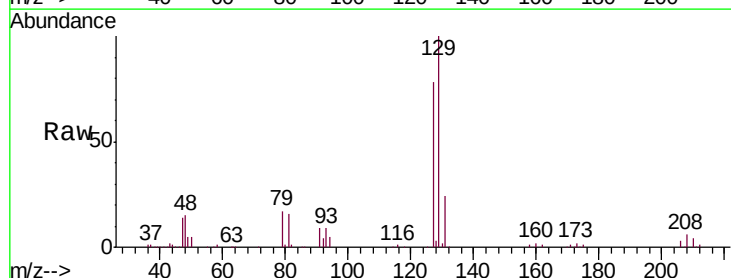
Instrument :
MSVOA_U
ClientSampleId :
VSTD05042

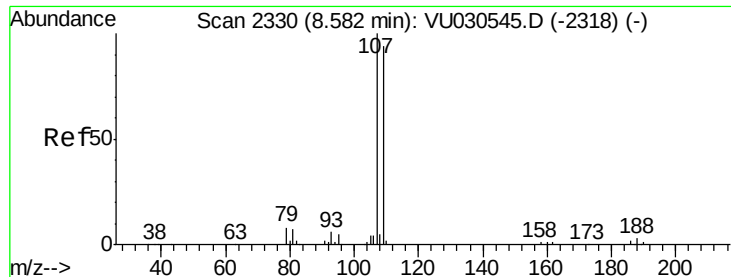
Tgt Ion: 43 Resp: 566088
Ion Ratio Lower Upper
43 100
58 53.1 42.5 63.7
57 18.1 15.0 22.6
100 9.3 7.4 11.2



#49
Dibromochloromethane
Concen: 45.942 ug/L
RT: 8.47 min Scan# 2296
Delta R.T. 0.00 min
Lab File: VU030582.D
Acq: 31 Mar 2019 11:52

Tgt Ion: 129 Resp: 185058
Ion Ratio Lower Upper
129 100
127 78.5 53.2 98.8

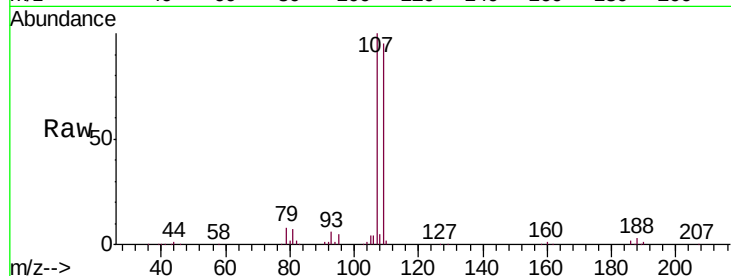




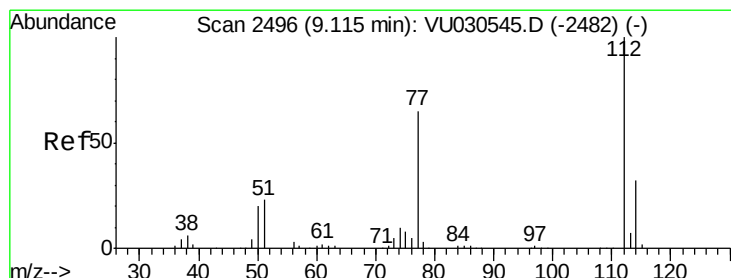
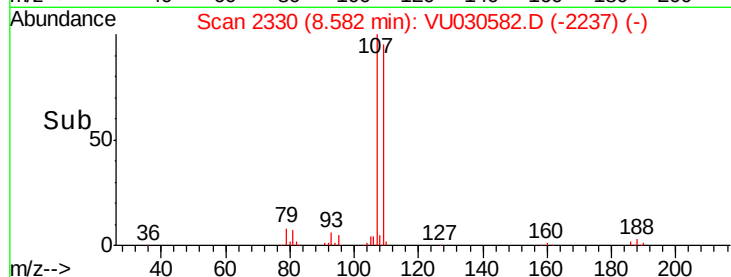
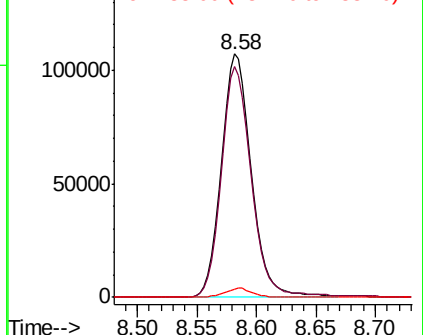
#50
 1,2-Dibromoethane
 Concen: 44.952 ug/L
 RT: 8.58 min Scan# 2330
 Delta R.T. 0.00 min
 Lab File: VU030582.D
 Acq: 31 Mar 2019 11:52

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05042

Tgt Ion:107 Resp: 187021
 Ion Ratio Lower Upper
 107 100
 109 94.7 65.8 122.2
 188 3.3 2.6 4.0

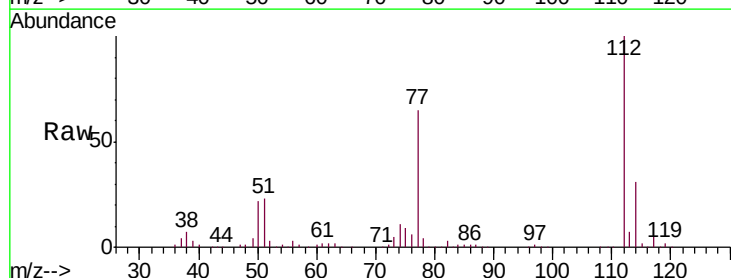


Abundance Ion 107.00 (106.70 to 107.70): V
 Ion 109.00 (108.70 to 109.70): V
 Ion 188.00 (187.70 to 188.70): V

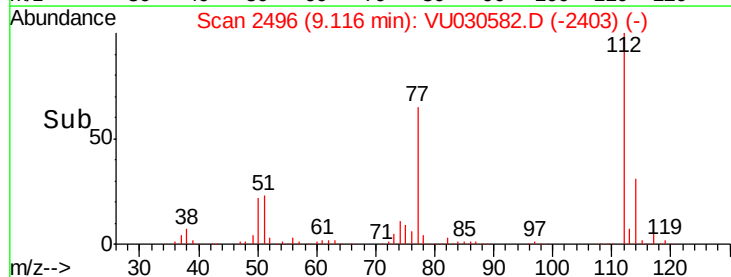
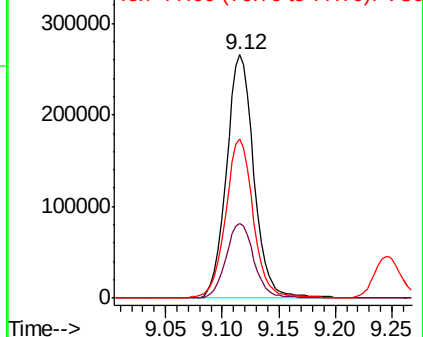


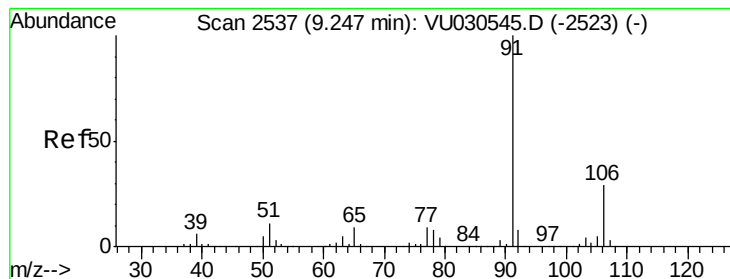
#51
 Chlorobenzene
 Concen: 44.014 ug/L
 RT: 9.12 min Scan# 2496
 Delta R.T. 0.00 min
 Lab File: VU030582.D
 Acq: 31 Mar 2019 11:52

Tgt Ion:112 Resp: 447579
 Ion Ratio Lower Upper
 112 100
 114 30.8 21.5 39.9
 77 65.3 51.4 77.0



Abundance Ion 112.00 (111.70 to 112.70): V
 Ion 114.00 (113.70 to 114.70): V
 Ion 77.00 (76.70 to 77.70): VU0





#52

Ethylbenzene

Concen: 45.330 ug/L

RT: 9.25 min Scan# 2537

Delta R.T. 0.00 min

Lab File: VU030582.D

Acq: 31 Mar 2019 11:52

Instrument :

MSVOA_U

ClientSampleId :

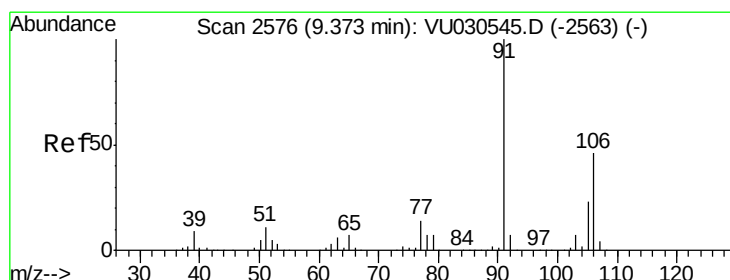
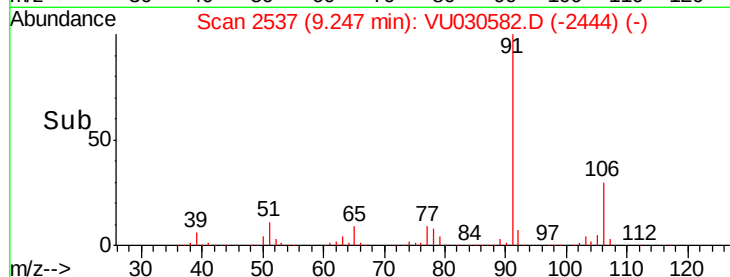
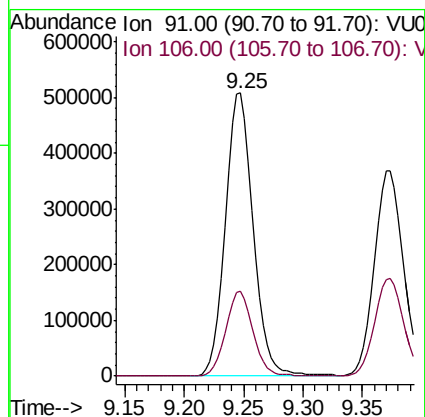
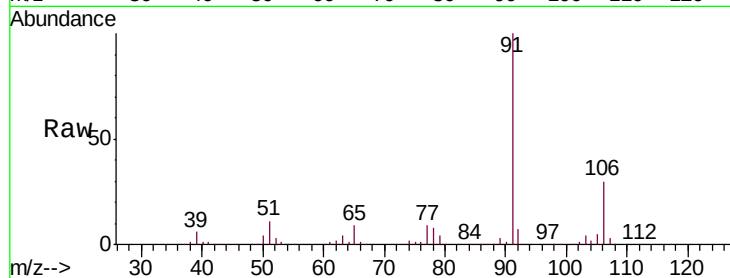
VSTD05042

Tgt Ion: 91 Resp: 823919

Ion Ratio Lower Upper

91 100

106 29.8 20.6 38.2



#53

m,p-Xylene

Concen: 45.686 ug/L

RT: 9.37 min Scan# 2576

Delta R.T. 0.00 min

Lab File: VU030582.D

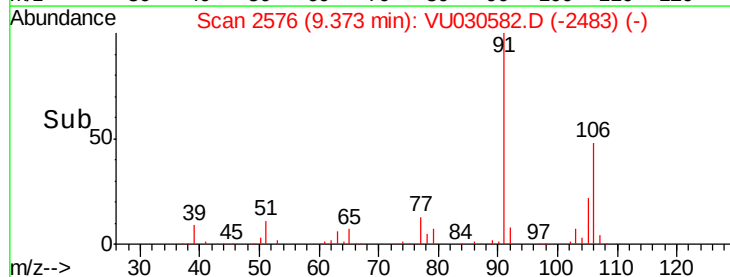
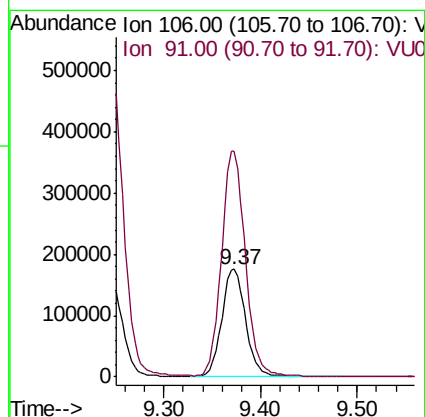
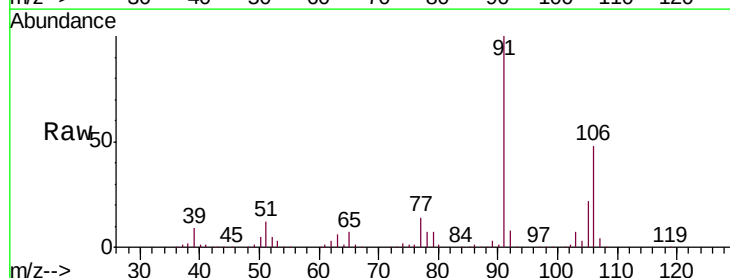
Acq: 31 Mar 2019 11:52

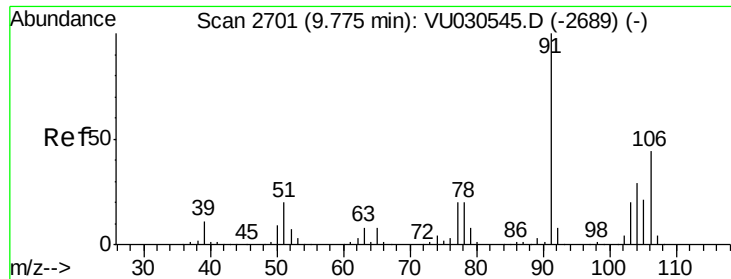
Tgt Ion: 106 Resp: 299828

Ion Ratio Lower Upper

106 100

91 209.7 151.2 280.8





#54

o-xylene

Concen: 45.890 ug/L

RT: 9.77 min Scan# 2701

Delta R.T. 0.00 min

Lab File: VU030582.D

Acq: 31 Mar 2019 11:52

Instrument :

MSVOA_U

ClientSampleId :

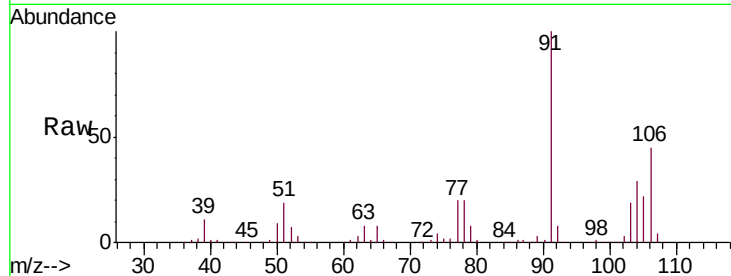
VSTD05042

Tgt Ion:106 Resp: 293863

Ion Ratio Lower Upper

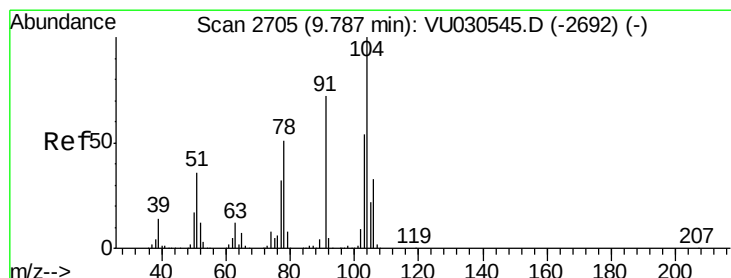
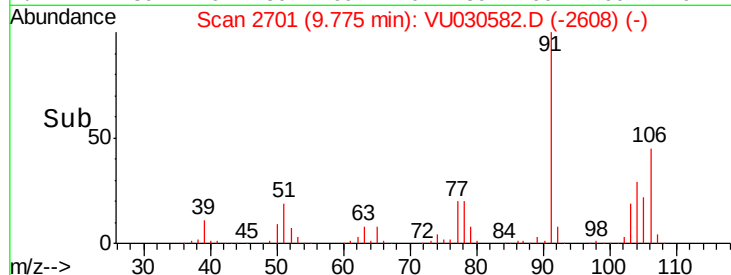
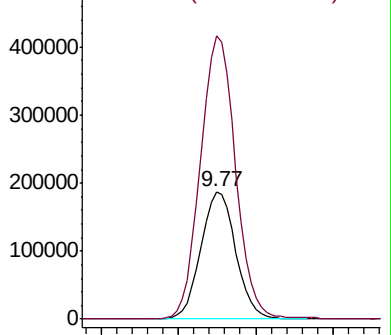
106 100

91 222.5 159.6 296.4



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VU0



#55

Styrene

Concen: 46.317 ug/L

RT: 9.79 min Scan# 2705

Delta R.T. 0.00 min

Lab File: VU030582.D

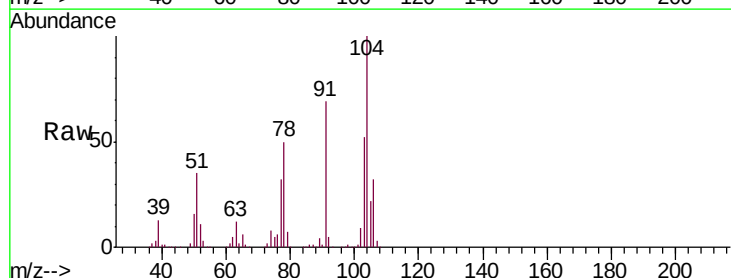
Acq: 31 Mar 2019 11:52

Tgt Ion:104 Resp: 510916

Ion Ratio Lower Upper

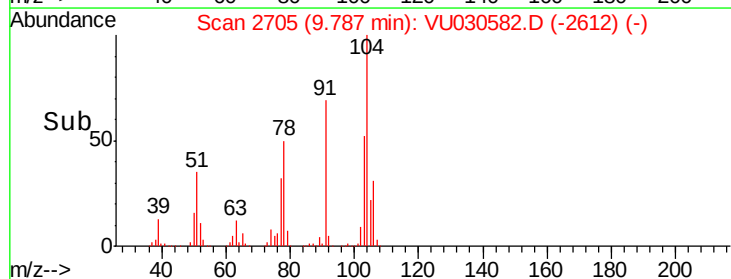
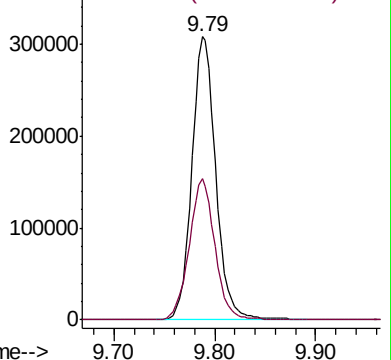
104 100

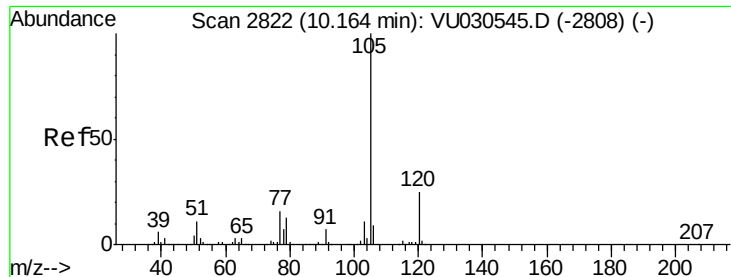
78 49.7 35.1 65.3



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VU0





#56

Isopropylbenzene

Concen: 45.599 ug/L

RT: 10.16 min Scan# 2822

Delta R.T. 0.00 min

Lab File: VU030582.D

Acq: 31 Mar 2019 11:52

Instrument :

MSVOA_U

ClientSampleId :

VSTD05042

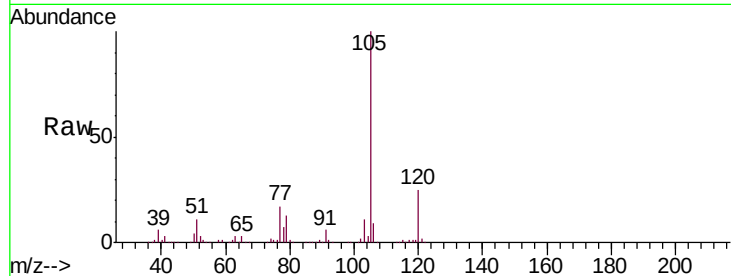
Tgt Ion: 105 Resp: 773173

Ion Ratio Lower Upper

105 100

120 25.0 20.2 30.2

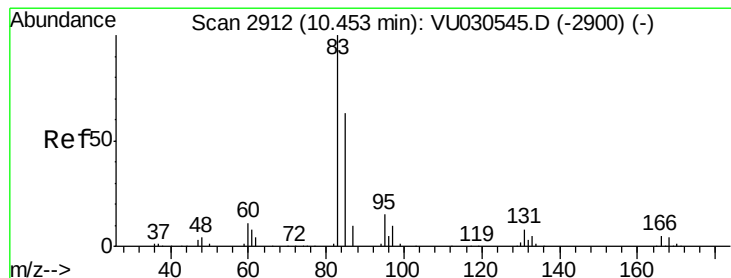
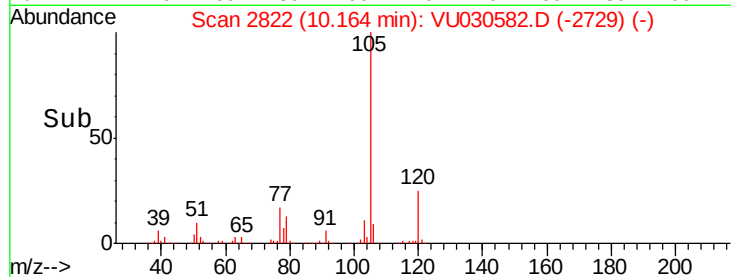
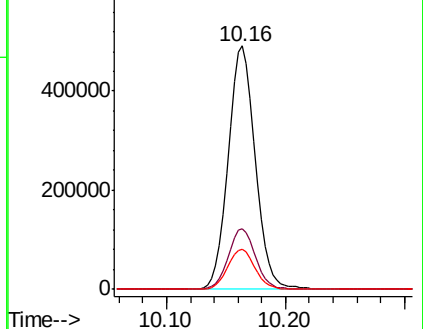
77 16.8 13.2 19.8



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: 44.301 ug/L

RT: 10.45 min Scan# 2912

Delta R.T. 0.00 min

Lab File: VU030582.D

Acq: 31 Mar 2019 11:52

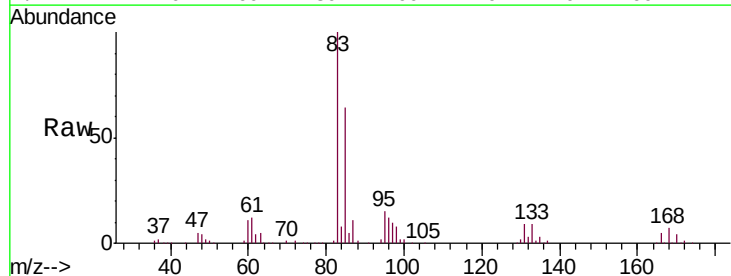
Tgt Ion: 83 Resp: 316520

Ion Ratio Lower Upper

83 100

85 64.4 44.3 82.3

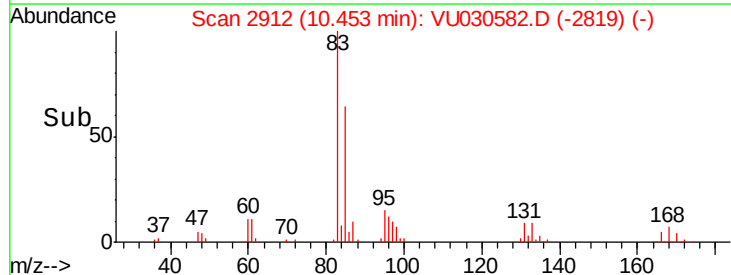
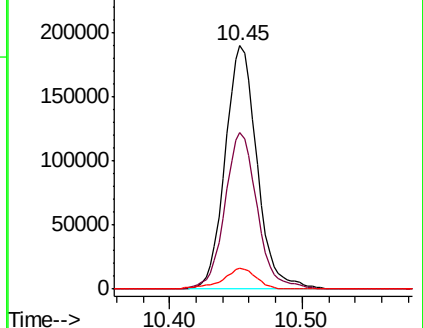
131 8.6 6.7 10.1

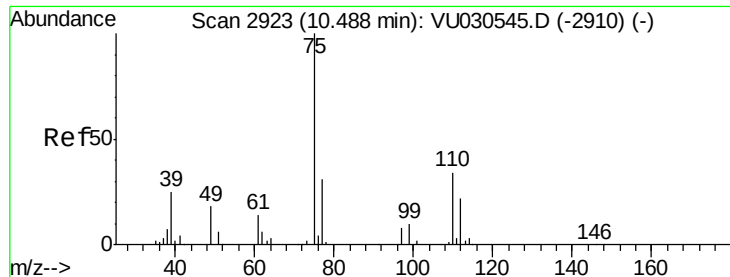


Abundance Ion 83.00 (82.70 to 83.70): V

Ion 85.00 (84.70 to 85.70): V

Ion 131.00 (130.70 to 131.70): V





#59

1,2,3-Trichloropropane

Concen: 44.267 ug/L

RT: 10.49 min Scan# 2923

Delta R.T. 0.00 min

Lab File: VU030582.D

Acq: 31 Mar 2019 11:52

Instrument :

MSVOA_U

ClientSampleId :

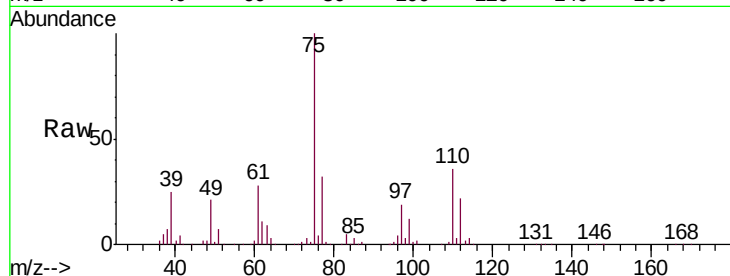
VSTD05042

Tgt Ion: 75 Resp: 247208

Ion Ratio Lower Upper

75 100

77 32.6 25.4 38.2



Abundance Ion 75.00 (74.70 to 75.70): VU030545.D (-2910) (-)

Ion 77.00 (76.70 to 77.70): VU030545.D (-2910) (-)

10.49

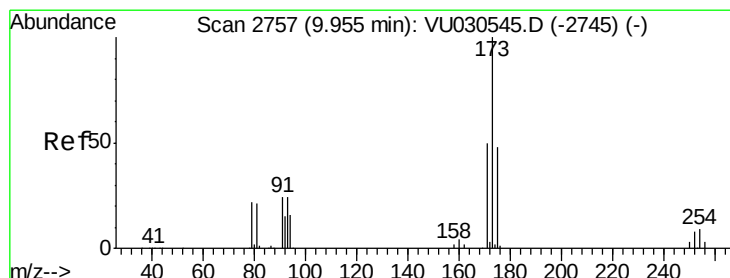
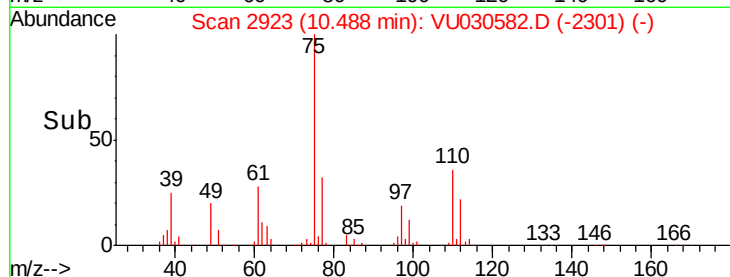
150000

100000

50000

0

Time--> 10.40 10.50 10.60



#61

Bromoform

Concen: 47.432 ug/L

RT: 9.95 min Scan# 2757

Delta R.T. 0.00 min

Lab File: VU030582.D

Acq: 31 Mar 2019 11:52

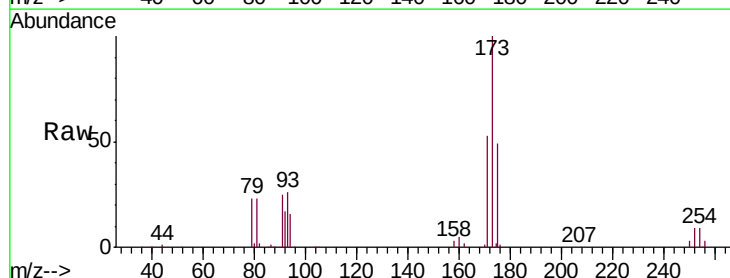
Tgt Ion: 173 Resp: 138126

Ion Ratio Lower Upper

173 100

175 47.9 38.5 57.7

254 8.3 6.8 10.2



Abundance Ion 173.00 (172.70 to 173.70): VU030545.D (-2745) (-)

Ion 175.00 (174.70 to 175.70): VU030545.D (-2745) (-)

Ion 254.00 (253.70 to 254.70): VU030545.D (-2745) (-)

9.95

100000

80000

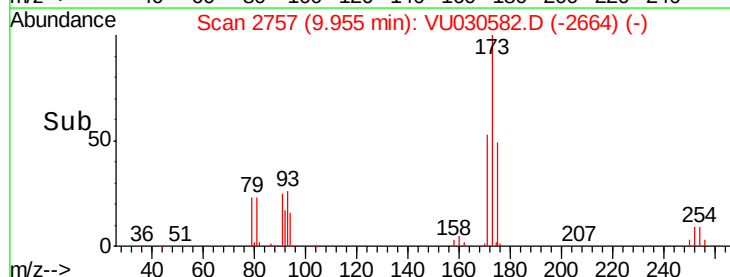
60000

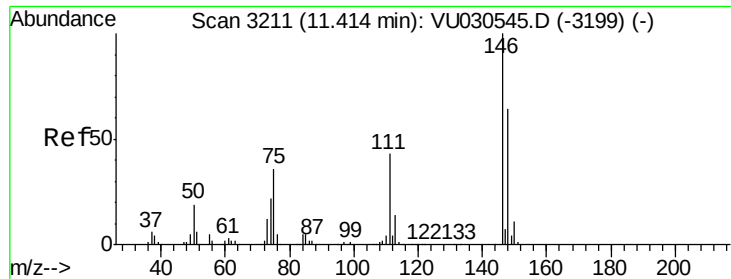
40000

20000

0

Time--> 9.90 10.00





#62

1,3-Dichlorobenzene

Concen: 45.500 ug/L

RT: 11.41 min Scan# 3211

Delta R.T. 0.00 min

Lab File: VU030582.D

Acq: 31 Mar 2019 11:52

Instrument :

MSVOA_U

ClientSampleId :

VSTD05042

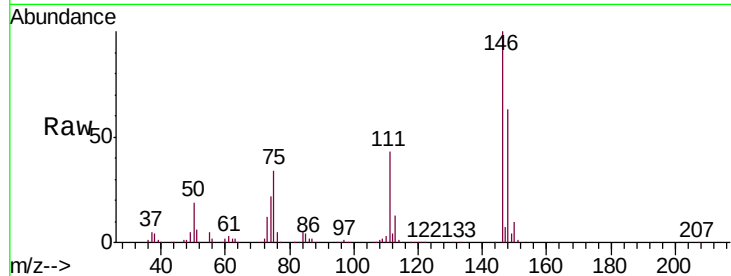
Tgt Ion:146 Resp: 325903

Ion Ratio Lower Upper

146 100

111 42.6 29.2 54.2

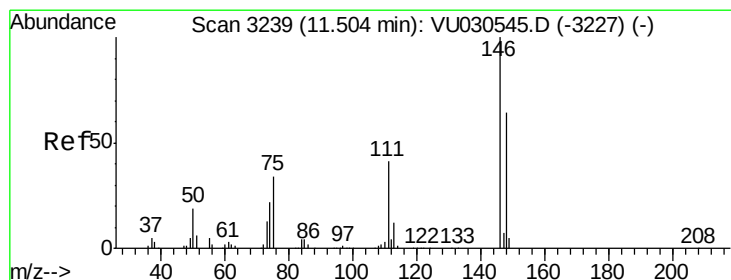
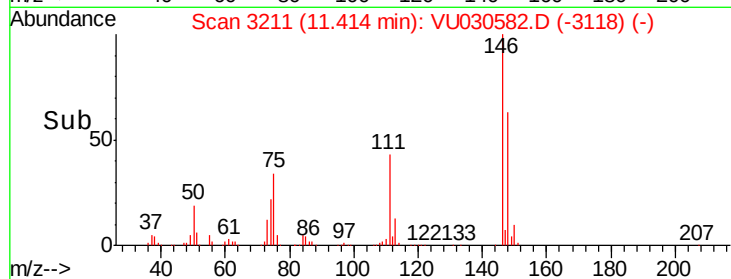
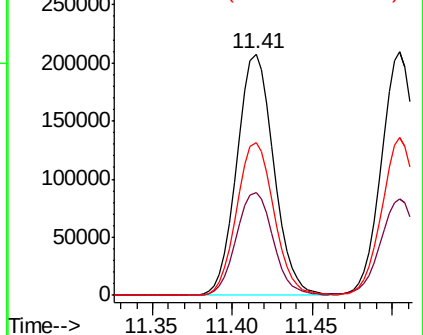
148 63.4 44.4 82.4



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



#63

1,4-Dichlorobenzene

Concen: 44.701 ug/L

RT: 11.50 min Scan# 3239

Delta R.T. 0.00 min

Lab File: VU030582.D

Acq: 31 Mar 2019 11:52

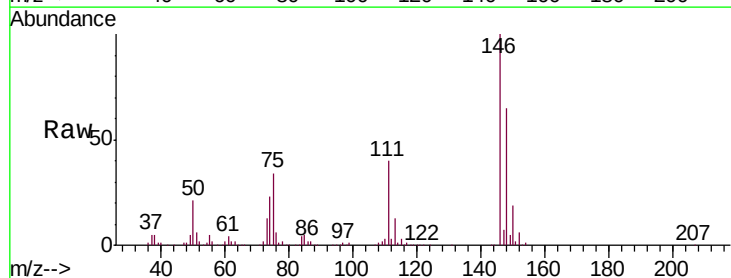
Tgt Ion:146 Resp: 329622

Ion Ratio Lower Upper

146 100

111 39.7 28.7 53.3

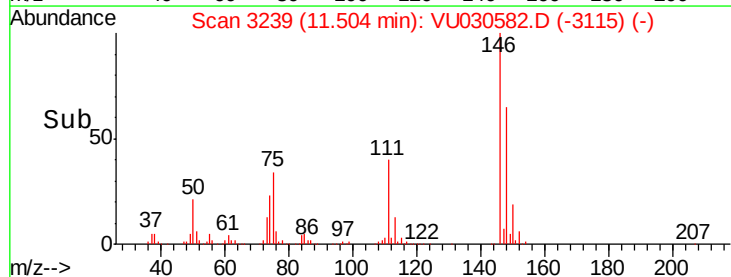
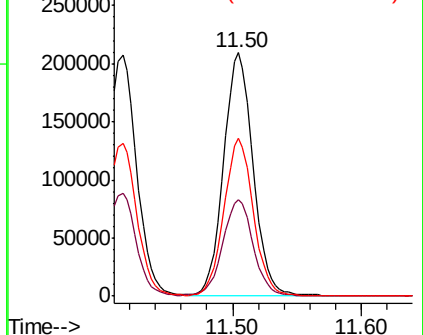
148 64.7 44.3 82.3

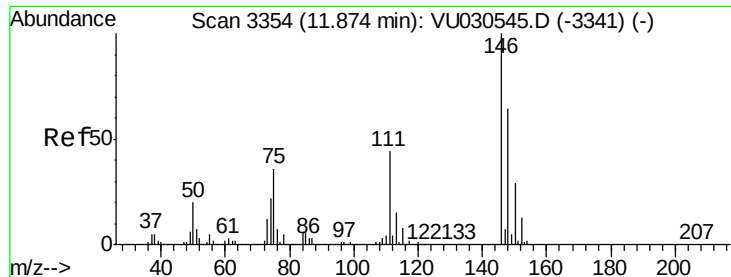


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V

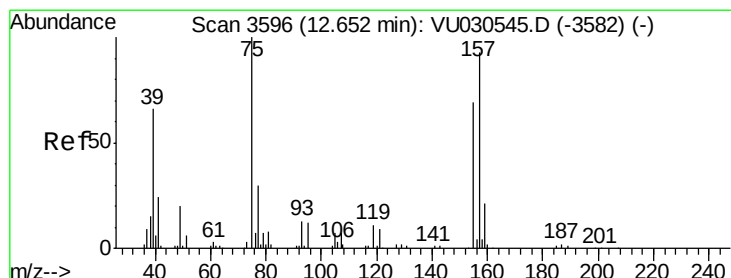
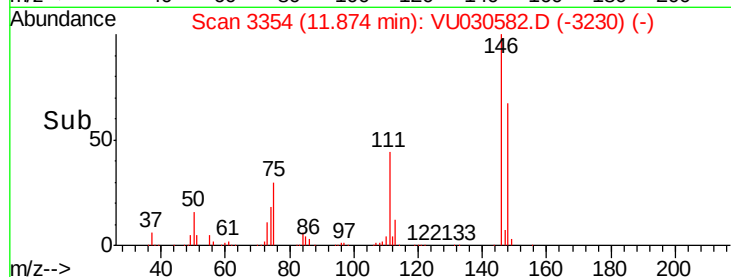
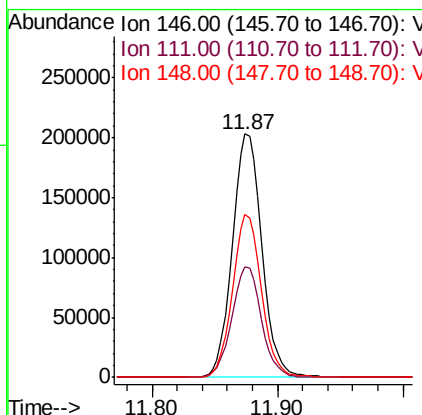
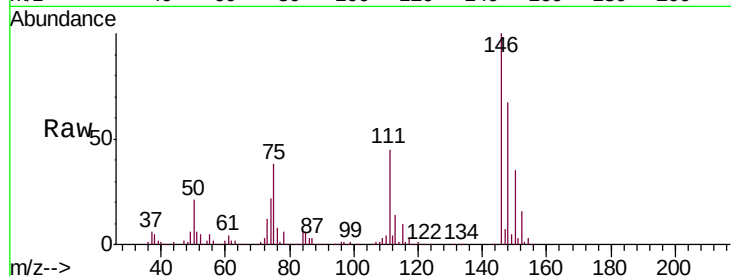




#65
 1,2-Dichlorobenzene
 Concen: 45.784 ug/L
 RT: 11.87 min Scan# 3354
 Delta R.T. 0.00 min
 Lab File: VU030582.D
 Acq: 31 Mar 2019 11:52

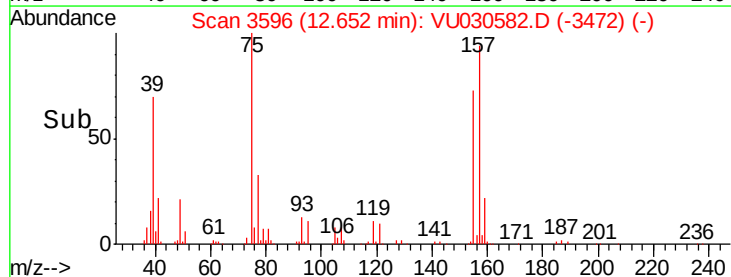
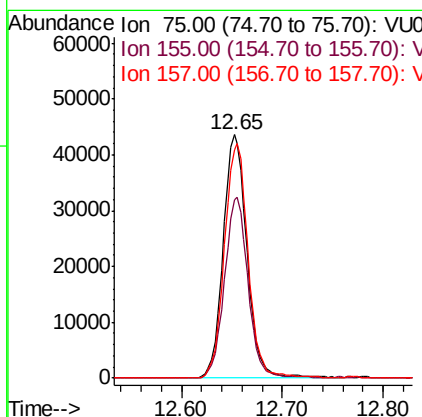
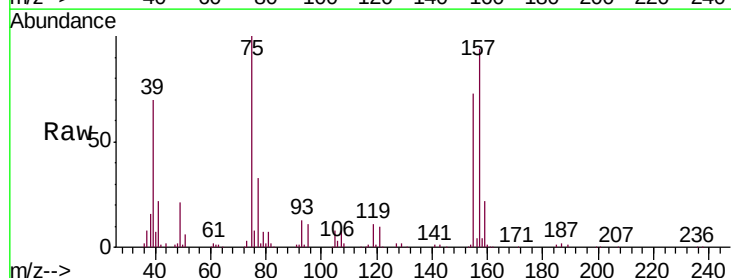
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05042

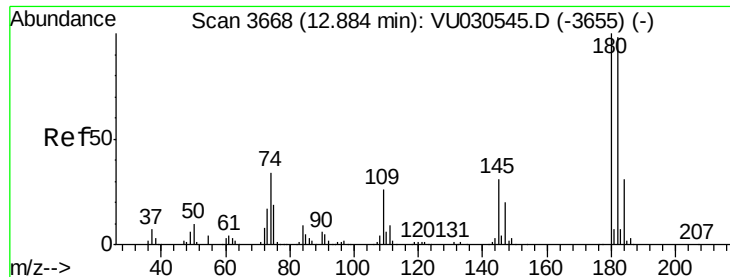
Tgt Ion: 146 Resp: 331596
 Ion Ratio Lower Upper
 146 100
 111 45.2 34.9 52.3
 148 66.7 51.2 76.8



#66
 1,2-Dibromo-3-chloropropane
 Concen: 44.597 ug/L
 RT: 12.65 min Scan# 3596
 Delta R.T. 0.00 min
 Lab File: VU030582.D
 Acq: 31 Mar 2019 11:52

Tgt Ion: 75 Resp: 71921
 Ion Ratio Lower Upper
 75 100
 155 73.0 61.8 92.6
 157 93.9 80.2 120.4

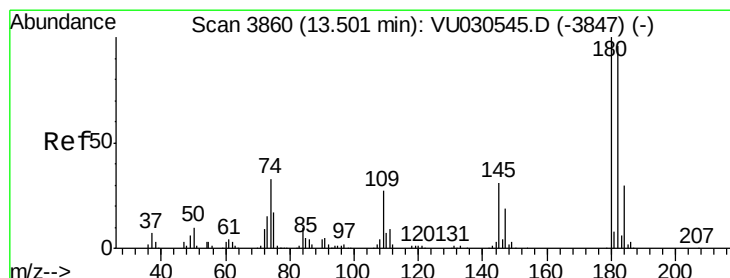
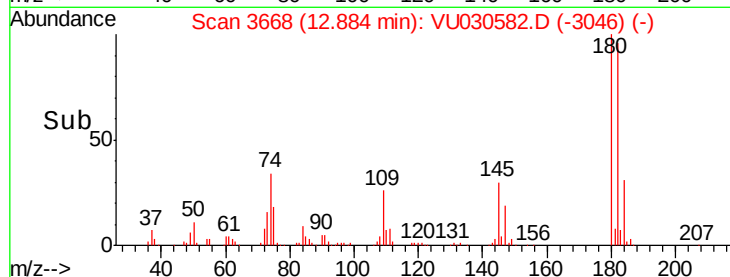
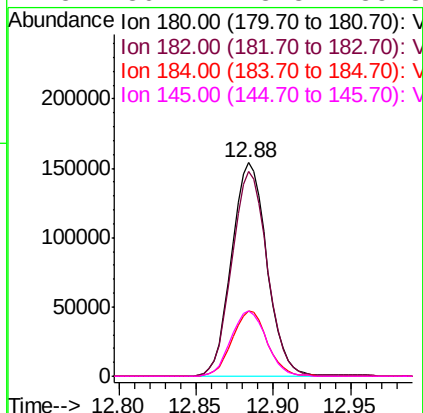
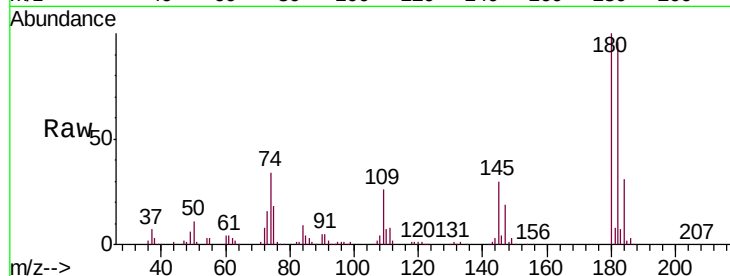




#67
 1,3,5-Trichlorobenzene
 Concen: 45.653 ug/L
 RT: 12.88 min Scan# 3668
 Delta R.T. 0.00 min
 Lab File: VU030582.D
 Acq: 31 Mar 2019 11:52

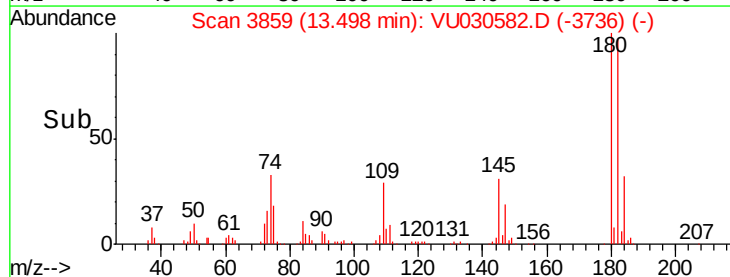
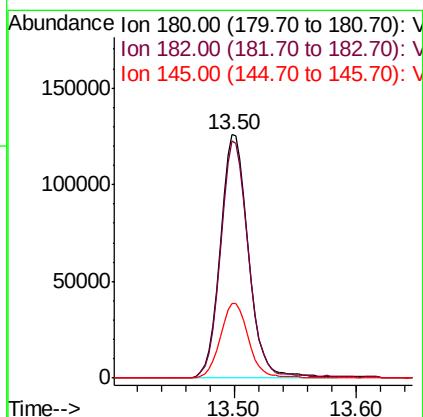
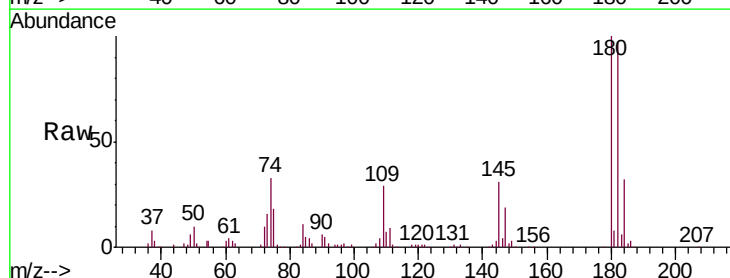
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05042

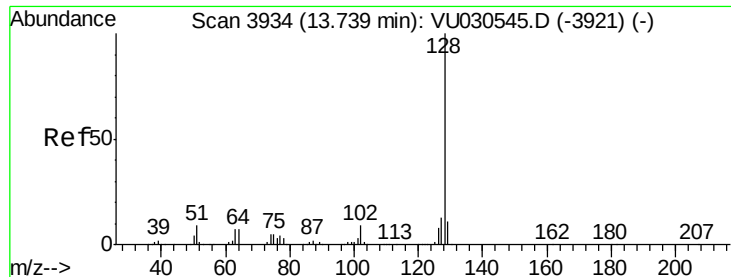
Tgt Ion:180 Resp: 244799
 Ion Ratio Lower Upper
 180 100
 182 96.0 75.9 113.9
 184 30.3 24.1 36.1
 145 30.7 23.8 35.8



#68
 1,2,4-trichlorobenzene
 Concen: 44.003 ug/L
 RT: 13.50 min Scan# 3859
 Delta R.T. -0.00 min
 Lab File: VU030582.D
 Acq: 31 Mar 2019 11:52

Tgt Ion:180 Resp: 205015
 Ion Ratio Lower Upper
 180 100
 182 96.2 76.1 114.1
 145 30.8 24.5 36.7





#69

Naphthalene

Concen: 41.625 ug/L

RT: 13.74 min Scan# 3934

Delta R.T. 0.00 min

Lab File: VU030582.D

Acq: 31 Mar 2019 11:52

Instrument :

MSVOA_U

ClientSampleId :

VSTD05042

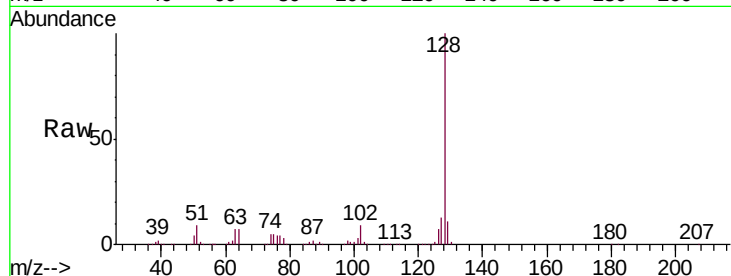
Tgt Ion:128 Resp: 689593

Ion Ratio Lower Upper

128 100

127 12.9 10.4 15.6

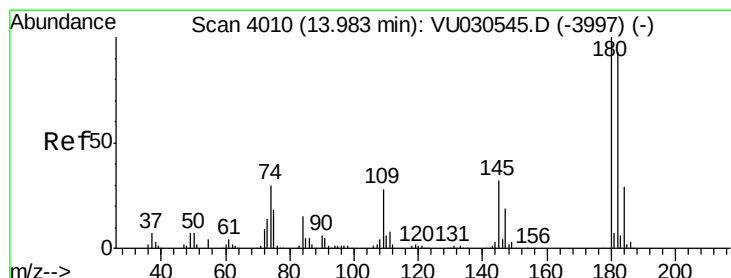
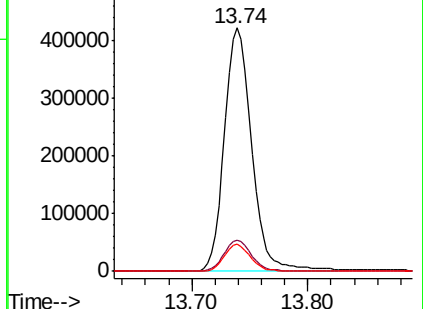
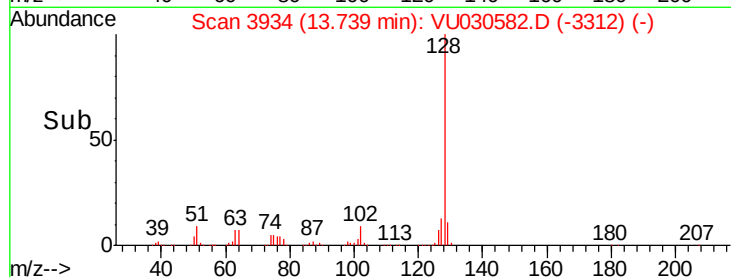
129 10.8 8.4 12.6



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: 43.843 ug/L

RT: 13.98 min Scan# 4010

Delta R.T. 0.00 min

Lab File: VU030582.D

Acq: 31 Mar 2019 11:52

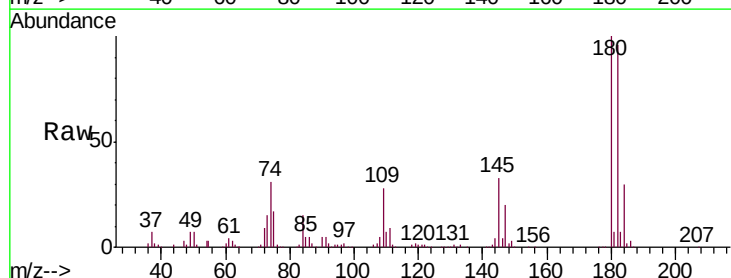
Tgt Ion:180 Resp: 215700

Ion Ratio Lower Upper

180 100

182 96.3 77.4 116.2

145 33.5 25.9 38.9



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

