

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU080319\
 Data File : VU033580.D
 Acq On : 03 Aug 2019 10:05
 Operator : JC/SP
 Sample : VSTDCCC050
 Misc : 5.0mL/MSVOA_U/WATER
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05048

Quant Time: Aug 05 05:28:39 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM080319WMA.M
 Quant Title : VOC Analysis
 QLast Update : Mon Aug 05 05:25:49 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.86	114	289631	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.07	117	290399	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.47	152	156401	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.39	65	78157	37.55	ug/L	0.00
7) Chloroethane-d5	1.67	69	87468	48.39	ug/L	0.00
11) 1,1-Dichloroethene-d2	2.26	63	173613	45.44	ug/L	0.00
21) 2-Butanone-d5	4.16	46	163912	114.78	ug/L	0.00
24) Chloroform-d	4.62	84	173076	48.42	ug/L	0.00
26) 1,2-Dichloroethane-d4	5.29	65	110121	48.91	ug/L	0.00
32) Benzene-d6	5.32	84	317107	43.72	ug/L	0.00
36) 1,2-Dichloropropane-d6	6.31	67	107306	47.26	ug/L	0.00
41) Toluene-d8	7.55	98	292841	43.16	ug/L	0.00
43) trans-1,3-Dichloropropene-	7.83	79	51599	45.71	ug/L	0.00
47) 2-Hexanone-d5	8.30	63	118810	109.56	ug/L	0.00
57) 1,1,2,2-Tetrachloroethane-	10.41	84	180479	51.21	ug/L	0.00
64) 1,2-Dichlorobenzene-d4	11.85	152	130172	45.12	ug/L	0.00

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	1.20	85	141134	52.586 ug/L	99
3) Chloromethane	1.32	50	141076	51.998 ug/L	99
5) Vinyl chloride	1.40	62	149492	51.321 ug/L	98
6) Bromomethane	1.62	94	100141	38.728 ug/L	100
8) Chloroethane	1.69	64	114164	64.479 ug/L	100
9) Trichlorofluoromethane	1.87	101	207261	54.259 ug/L	99
10) 1,1,2-Trichloro-1,2,2-trif	2.27	101	107139	55.126 ug/L	100
12) 1,1-Dichloroethene	2.27	96	99622	53.806 ug/L	92
13) Acetone	2.32	43	182405	127.701 ug/L	99
14) Carbon disulfide	2.46	76	283123	49.128 ug/L	98
15) Methyl Acetate	2.60	43	124954	54.618 ug/L	99
16) Methylene chloride	2.68	84	113086	53.115 ug/L	99
17) trans-1,2-Dichloroethene	2.96	96	99935	51.445 ug/L	99
18) Methyl tert-butyl Ether	2.98	73	318784	53.464 ug/L	100
19) 1,1-Dichloroethane	3.42	63	197291	53.750 ug/L	99
20) cis-1,2-Dichloroethene	4.20	96	115000	52.359 ug/L	98
22) 2-Butanone	4.24	43	210326	123.027 ug/L	100
23) Bromochloromethane	4.52	128	60926	53.606 ug/L	95
25) Chloroform	4.65	83	206836	53.657 ug/L	99
27) 1,2-Dichloroethane	5.38	62	163807	55.023 ug/L	100
29) Cyclohexane	4.97	56	163896	52.389 ug/L	99
30) 1,1,1-Trichloroethane	4.89	97	172213	51.917 ug/L	100
31) Carbon tetrachloride	5.11	117	153571	53.029 ug/L	99
33) Benzene	5.37	78	438804	52.813 ug/L	100
34) Trichloroethene	6.16	95	111550	50.960 ug/L	99
35) Methylcyclohexane	6.40	83	178746	52.437 ug/L	99
37) 1,2-Dichloropropane	6.41	63	119612	53.304 ug/L	99
38) Bromodichloromethane	6.74	83	154883	53.614 ug/L	99
39) cis-1,3-Dichloropropene	7.25	75	182205	52.359 ug/L	100
40) 4-Methyl-2-pentanone	7.44	43	345470	110.910 ug/L	100

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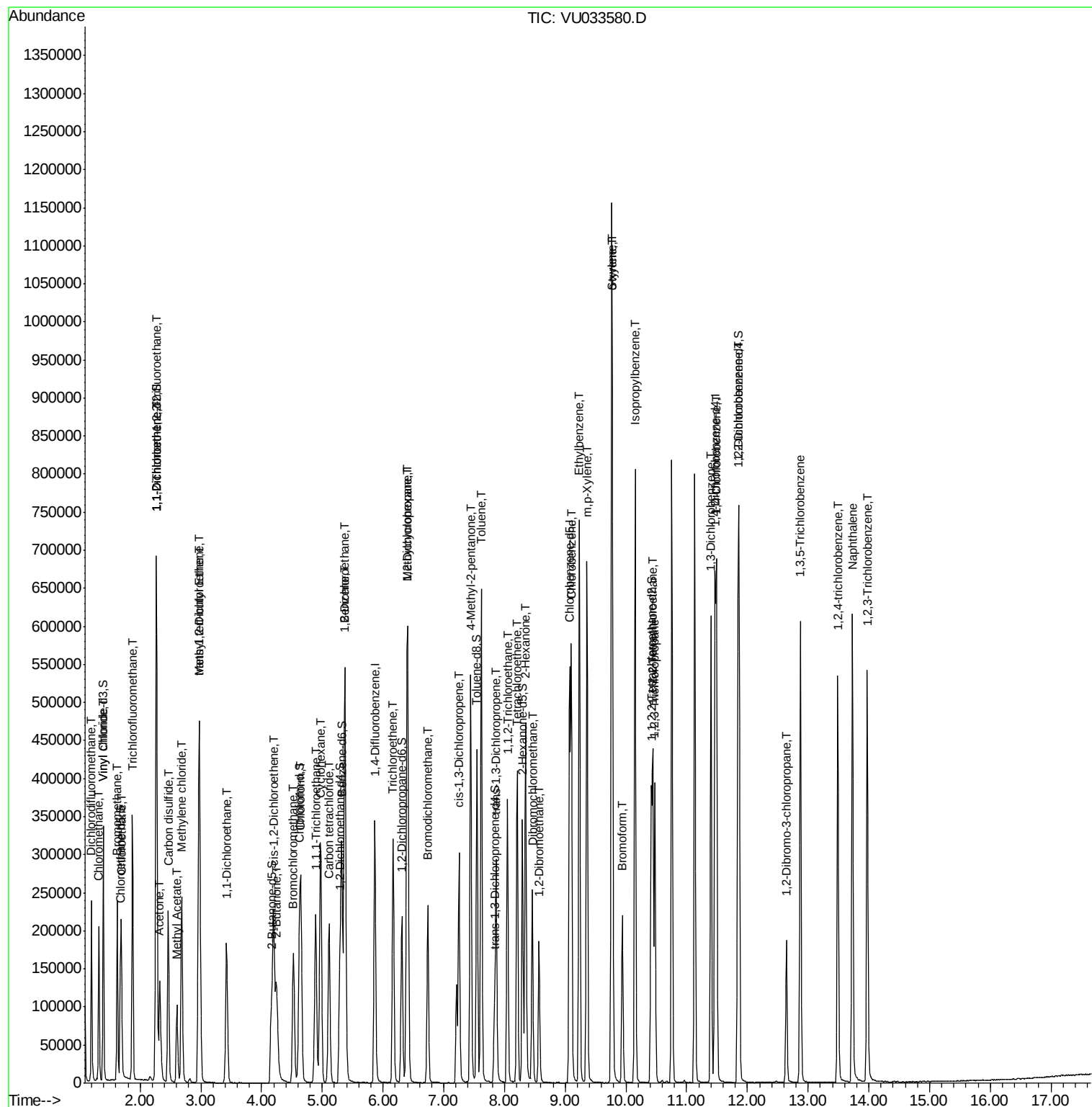
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
42) Toluene	7.62	91	477933	53.597	ug/L	99
44) trans-1,3-Dichloropropene	7.86	75	167740	53.541	ug/L	97
45) 1,1,2-Trichloroethane	8.05	97	113878	53.706	ug/L	99
46) Tetrachloroethene	8.21	164	91715	51.540	ug/L	99
48) 2-Hexanone	8.35	43	292998	116.818	ug/L	99
49) Dibromochloromethane	8.46	129	128735	53.464	ug/L	98
50) 1,2-Dibromoethane	8.57	107	124008	53.116	ug/L	99
51) Chlorobenzene	9.10	112	303902	52.089	ug/L	99
52) Ethylbenzene	9.23	91	510617	53.178	ug/L	100
53) m,p-Xylene	9.36	106	197557	53.452	ug/L	100
54) o-xylene	9.76	106	192981	54.130	ug/L	99
55) Styrene	9.77	104	335275	55.327	ug/L	100
56) Isopropylbenzene	10.15	105	500404	53.597	ug/L	99
58) 1,1,2,2-Tetrachloroethane	10.44	83	205316	53.585	ug/L	98
59) 1,2,3-Trichloropropane	10.48	75	159835	53.970	ug/L	99
61) Bromoform	9.94	173	98713	52.648	ug/L	99
62) 1,3-Dichlorobenzene	11.40	146	251836	52.918	ug/L	98
63) 1,4-Dichlorobenzene	11.49	146	252426	50.974	ug/L	100
65) 1,2-Dichlorobenzene	11.86	146	249548	51.850	ug/L	98
66) 1,2-Dibromo-3-chloropropan	12.64	75	47731	52.884	ug/L	95
67) 1,3,5-Trichlorobenzene	12.87	180	192512	50.374	ug/L	99
68) 1,2,4-trichlorobenzene	13.49	180	166256	51.022	ug/L	99
69) Naphthalene	13.73	128	487744	52.063	ug/L	100
70) 1,2,3-Trichlorobenzene	13.97	180	174465	50.930	ug/L	99

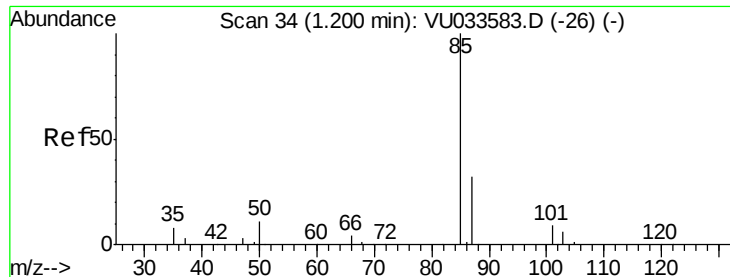
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#2

Dichlorodifluoromethane

Concen: 52.586 ug/L

RT: 1.20 min Scan# 34

Delta R.T. -0.00 min

Lab File: VU033580.D

Acq: 03 Aug 2019 10:05

Instrument :

MSVOA_U

ClientSampleId :

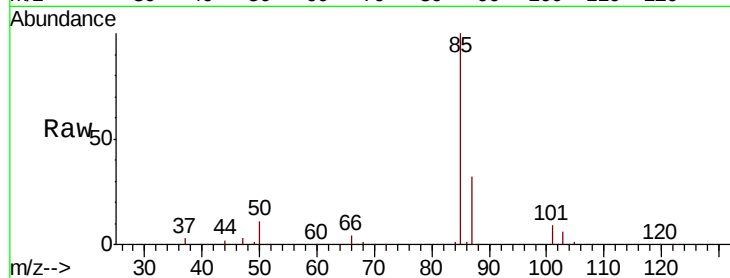
VSTD05048

Tgt Ion: 85 Resp: 141134

Ion Ratio Lower Upper

85 100

87 32.0 25.9 38.9



Abundance Ion 85.00 (84.70 to 85.70): VU033580.D (-1) (-)

Ion 87.00 (86.70 to 87.70): VU033580.D (-1) (-)

1.20

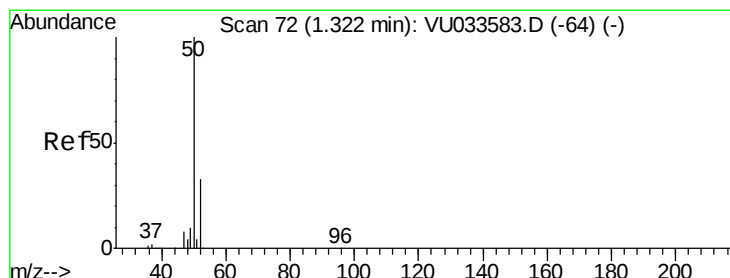
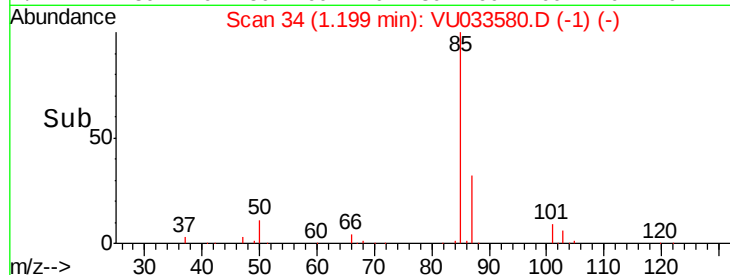
150000

100000

50000

0

Time-->



#3

Chloromethane

Concen: 51.998 ug/L

RT: 1.32 min Scan# 71

Delta R.T. -0.00 min

Lab File: VU033580.D

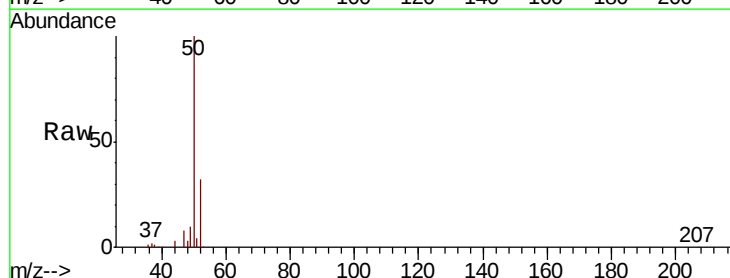
Acq: 03 Aug 2019 10:05

Tgt Ion: 50 Resp: 141076

Ion Ratio Lower Upper

50 100

52 32.3 23.1 42.9



Abundance Ion 50.00 (49.70 to 50.70): VU033580.D (-1) (-)

Ion 52.00 (51.70 to 52.70): VU033580.D (-1) (-)

1.32

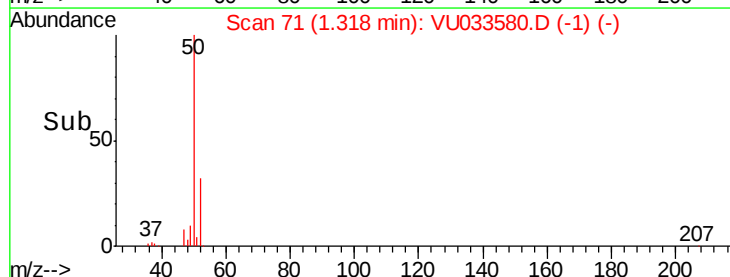
150000

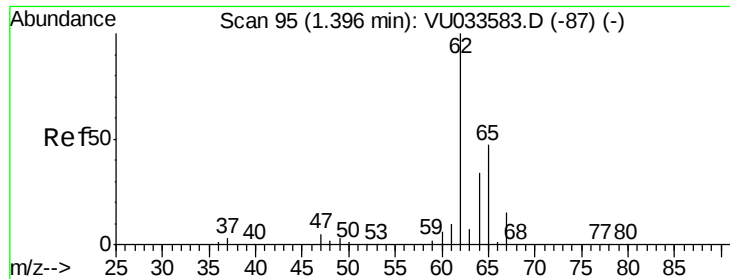
100000

50000

0

Time-->





#5

Vinyl chloride

Concen: 51.321 ug/L

RT: 1.40 min Scan# 95

Delta R.T. -0.00 min

Lab File: VU033580.D

Acq: 03 Aug 2019 10:05

Instrument :

MSVOA_U

ClientSampleId :

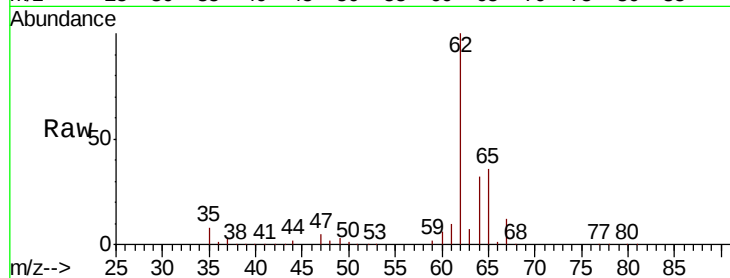
VSTD05048

Tgt Ion: 62 Resp: 149492

Ion Ratio Lower Upper

62 100

64 32.3 23.5 43.7



Abundance Ion 62.00 (61.70 to 62.70): VU033580.D (-87) (-)

Ion 64.00 (63.70 to 64.70): VU033580.D (-87) (-)

150000

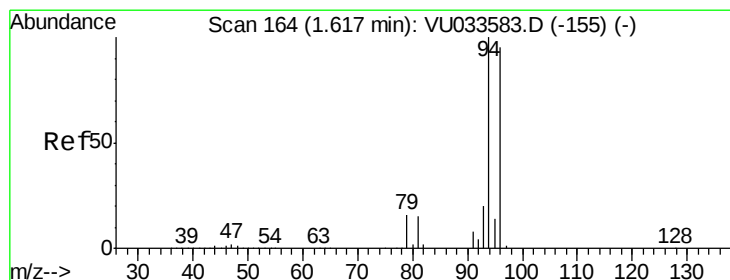
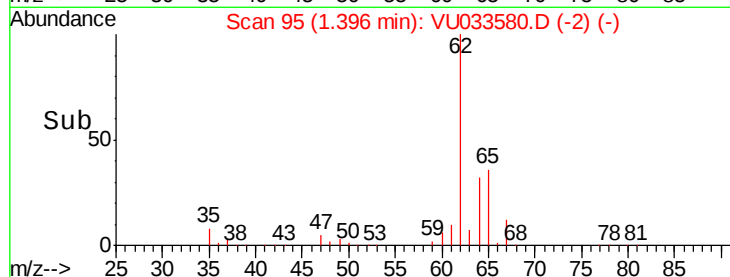
100000

50000

0

1.35 1.40 1.45

Time-->



#6

Bromomethane

Concen: 38.728 ug/L

RT: 1.62 min Scan# 165

Delta R.T. 0.00 min

Lab File: VU033580.D

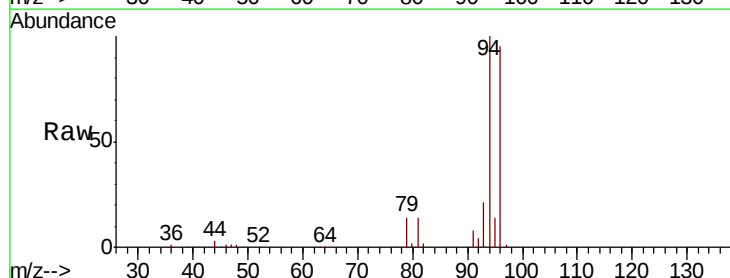
Acq: 03 Aug 2019 10:05

Tgt Ion: 94 Resp: 100141

Ion Ratio Lower Upper

94 100

96 94.6 66.2 123.0



Abundance Ion 94.00 (93.70 to 94.70): VU033580.D (-155) (-)

Ion 96.00 (95.70 to 96.70): VU033580.D (-155) (-)

100000

80000

60000

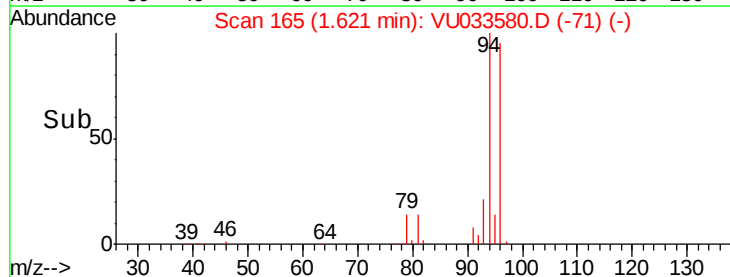
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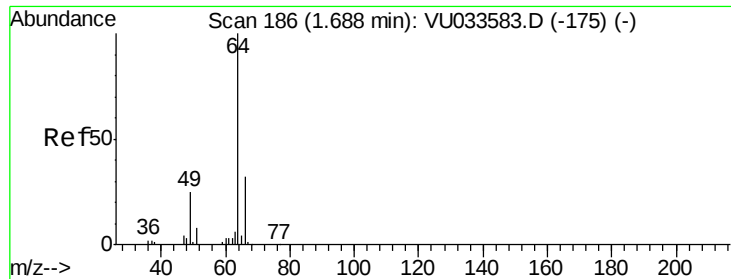
20000

0

1.55 1.60 1.65 1.70

Time-->





#8

Chloroethane

Concen: 64.479 ug/L

RT: 1.69 min Scan# 186

Delta R.T. -0.00 min

Lab File: VU033580.D

Acq: 03 Aug 2019 10:05

Instrument :

MSVOA_U

ClientSampleId :

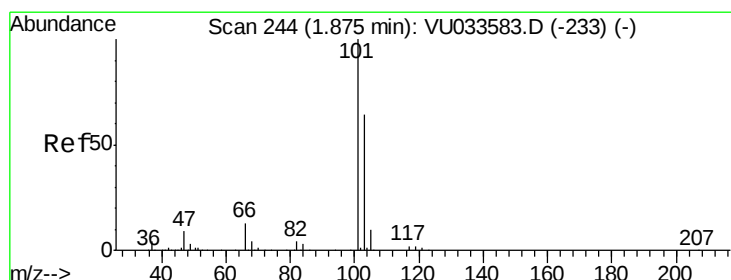
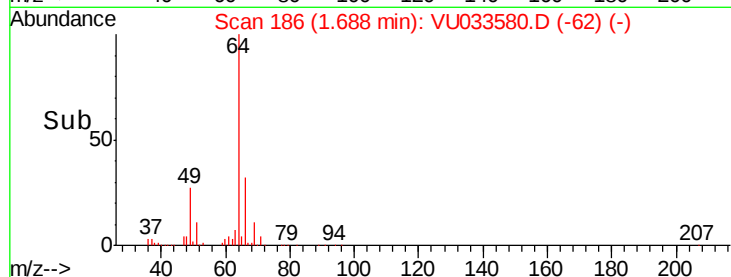
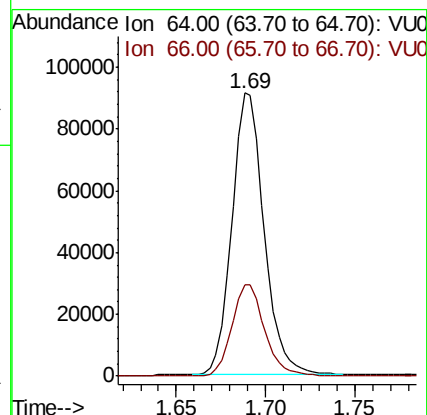
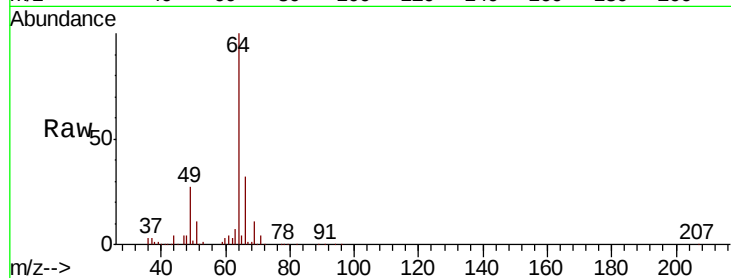
VSTD05048

Tgt Ion: 64 Resp: 114164

Ion Ratio Lower Upper

64 100

66 32.1 22.6 42.0



#9

Trichlorofluoromethane

Concen: 54.259 ug/L

RT: 1.87 min Scan# 244

Delta R.T. -0.00 min

Lab File: VU033580.D

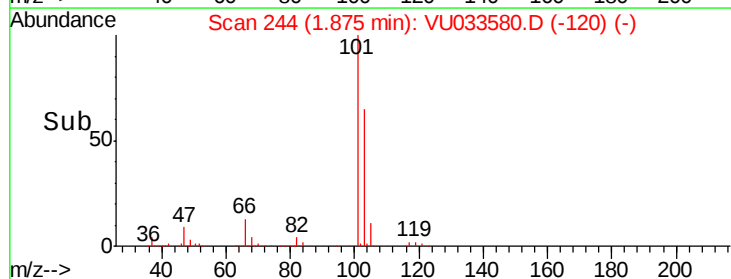
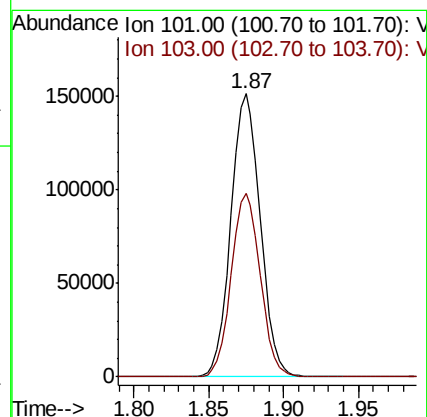
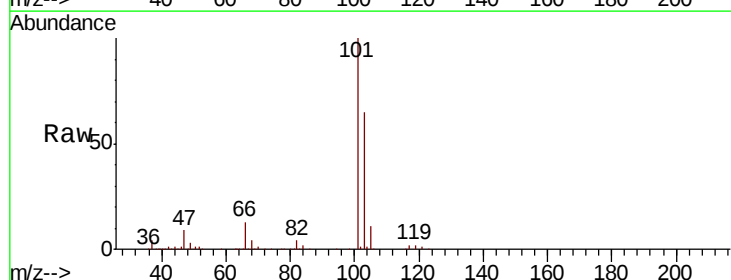
Acq: 03 Aug 2019 10:05

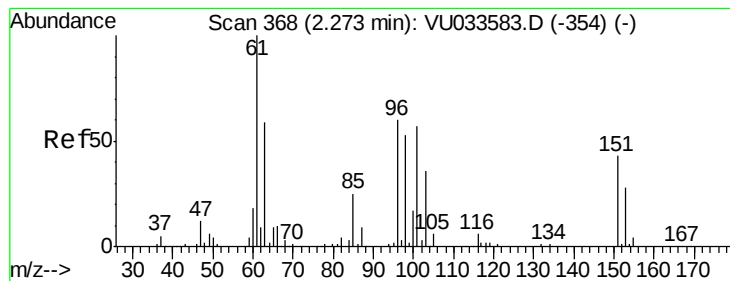
Tgt Ion: 101 Resp: 207261

Ion Ratio Lower Upper

101 100

103 64.0 52.2 78.2





#10

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

Concen: 55.126 ug/L

RT: 2.27 min Scan# 368

Delta R.T. -0.00 min

Lab File: VU033580.D

Acq: 03 Aug 2019 10:05

Instrument :

MSVOA_U

ClientSampleId :

VSTD05048

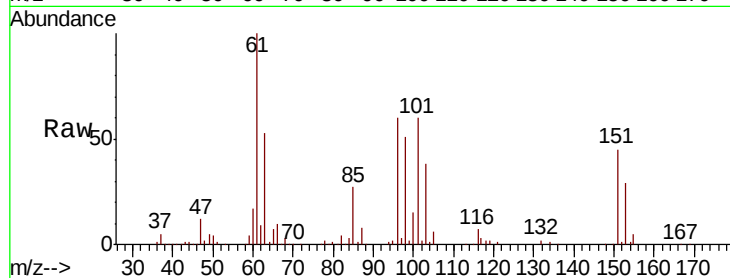
Tgt Ion:101 Resp: 107139

Ion Ratio Lower Upper

101 100

85 45.0 35.5 53.3

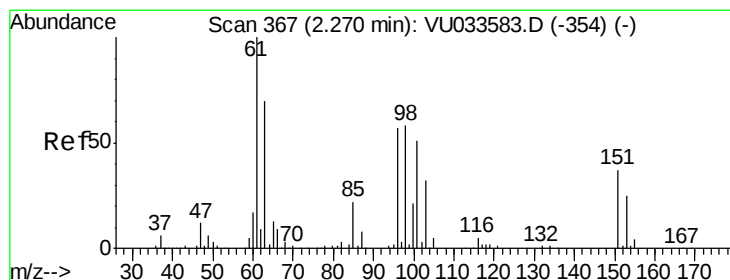
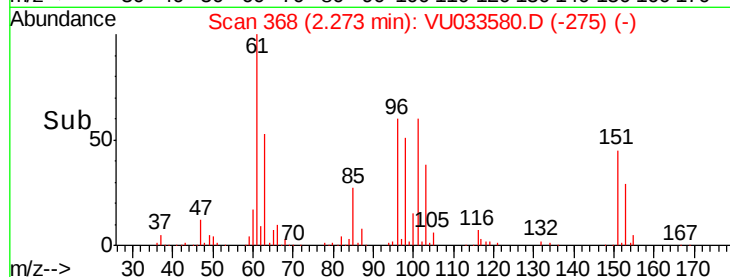
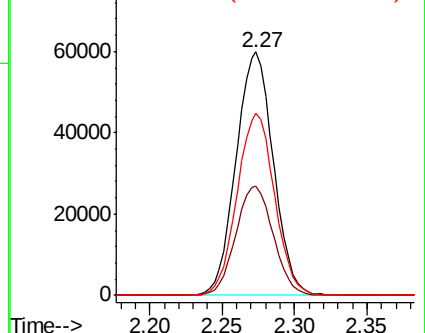
151 75.0 59.9 89.9



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: 53.806 ug/L

RT: 2.27 min Scan# 367

Delta R.T. -0.00 min

Lab File: VU033580.D

Acq: 03 Aug 2019 10:05

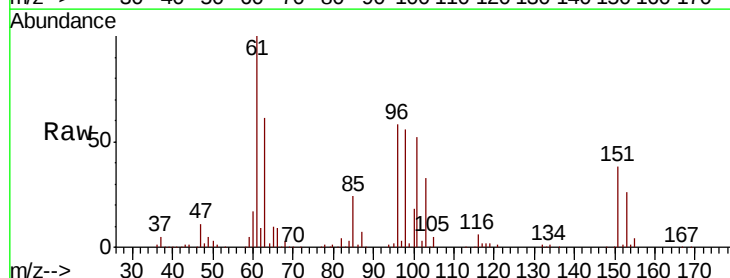
Tgt Ion: 96 Resp: 99622

Ion Ratio Lower Upper

96 100

61 172.2 122.8 228.0

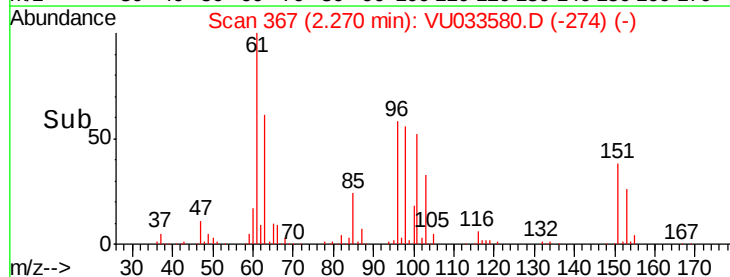
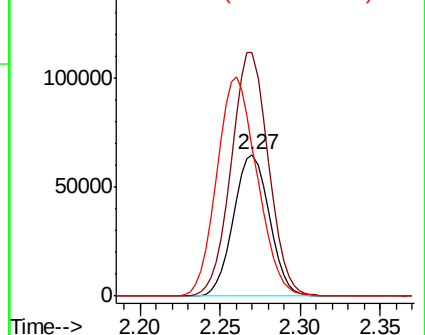
63 105.1 87.1 161.7

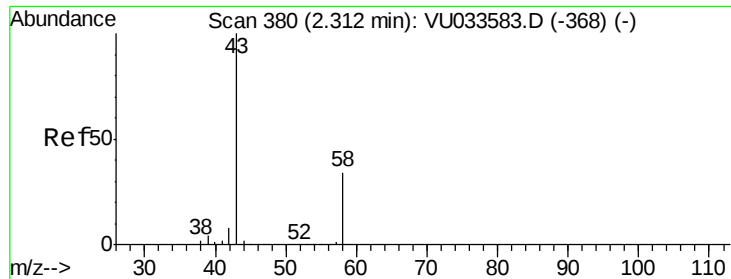


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 127.701 ug/L

RT: 2.32 min Scan# 383

Delta R.T. 0.01 min

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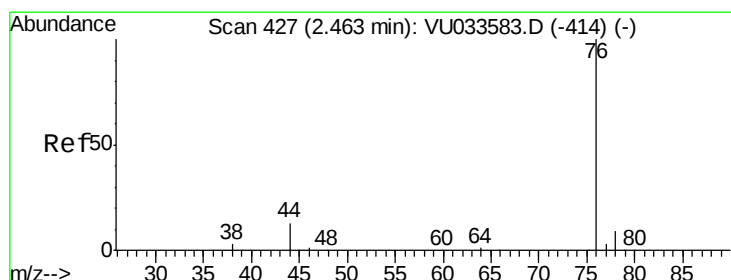
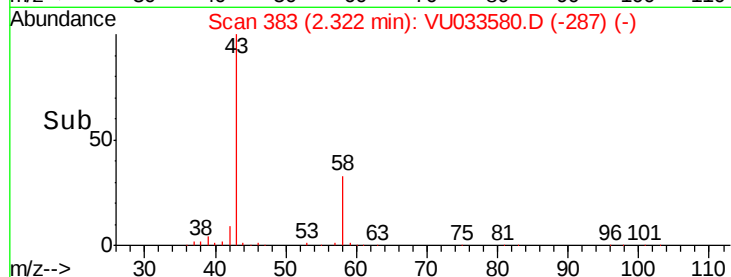
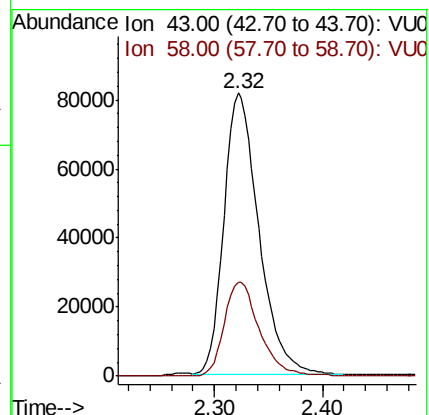
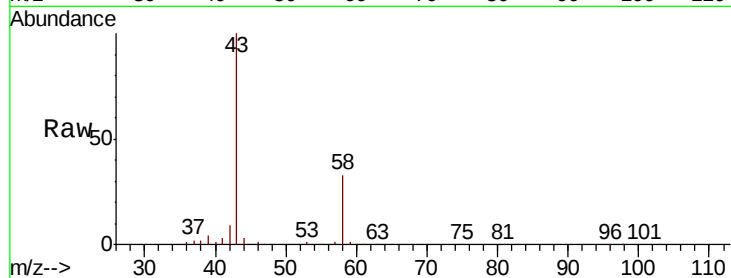
VSTD05048

Tgt Ion: 43 Resp: 182405

Ion Ratio Lower Upper

43 100

58 33.6 0.0 66.0



#14

Carbon disulfide

Concen: 49.128 ug/L

RT: 2.46 min Scan# 427

Delta R.T. -0.00 min

Lab File: VU033580.D

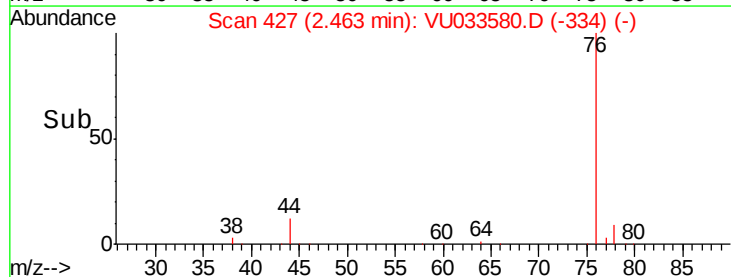
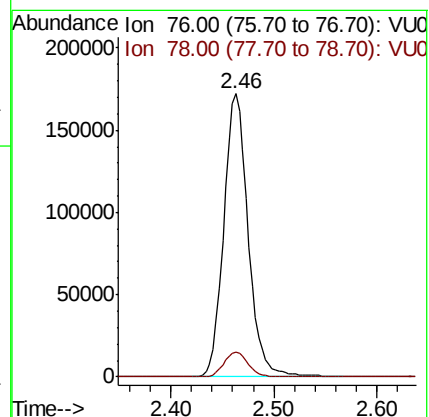
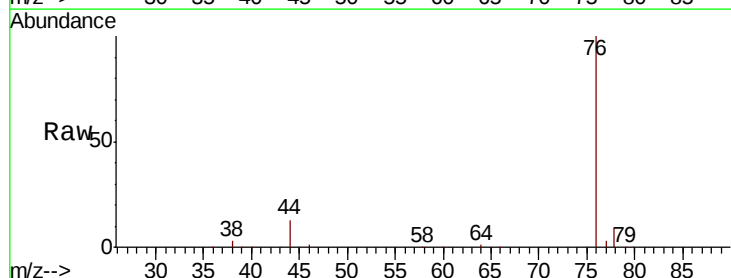
Acq: 03 Aug 2019 10:05

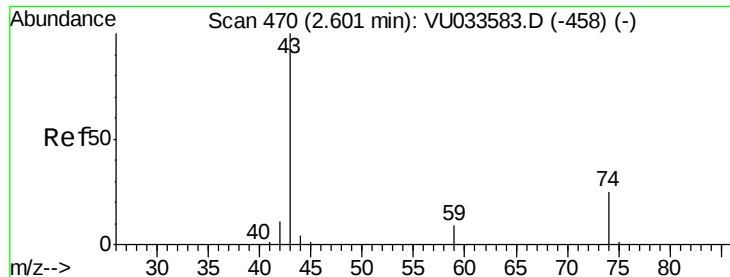
Tgt Ion: 76 Resp: 283123

Ion Ratio Lower Upper

76 100

78 8.8 7.5 11.3

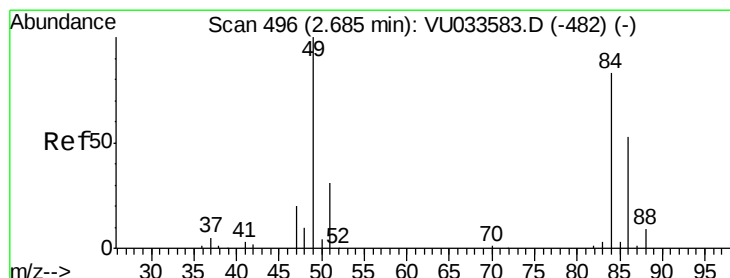
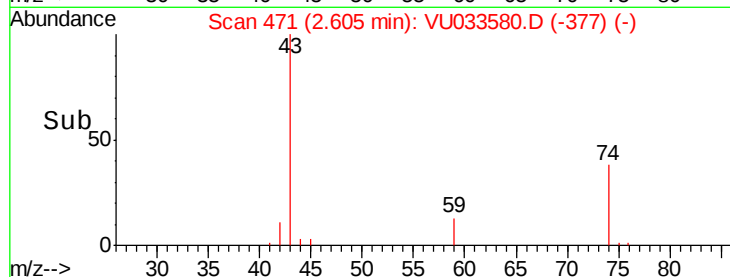
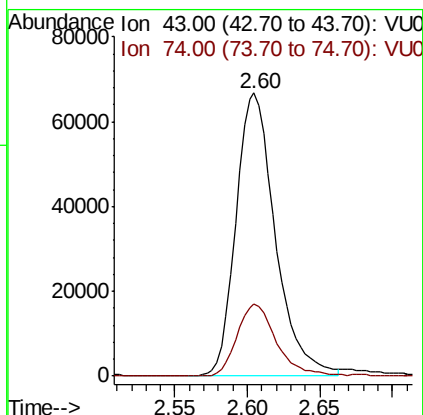
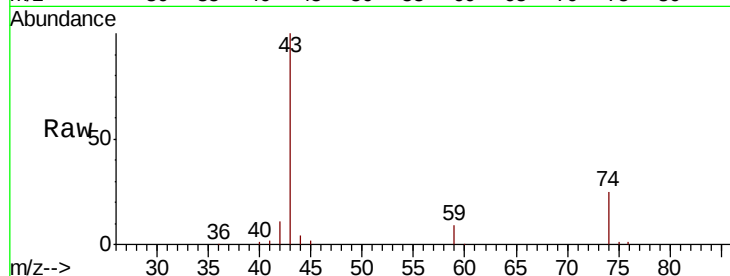




#15
Methyl Acetate
Concen: 54.618 ug/L
RT: 2.60 min Scan# 471
Delta R.T. 0.00 min
Lab File: VU033580.D
Acq: 03 Aug 2019 10:05

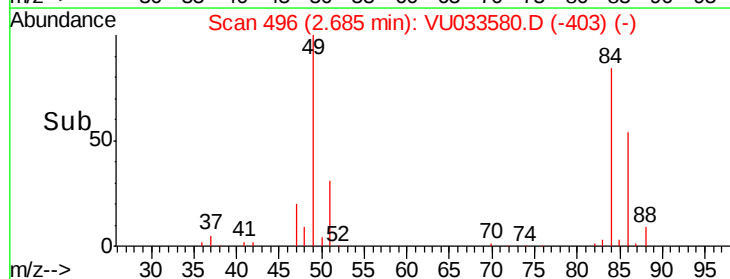
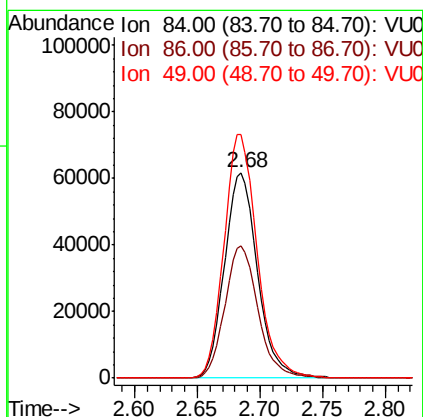
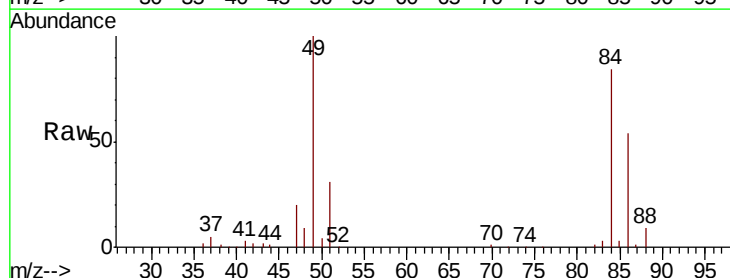
Instrument :
MSVOA_U
ClientSampleId :
VSTD05048

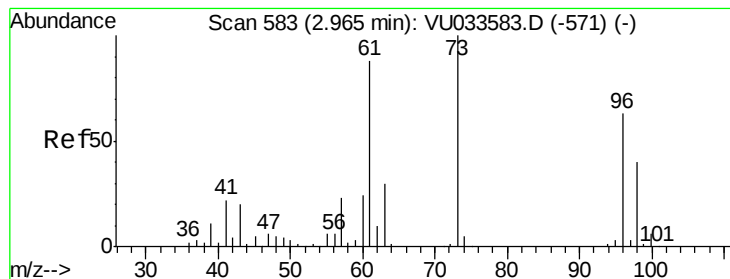
Tgt Ion: 43 Resp: 124954
Ion Ratio Lower Upper
43 100
74 25.6 19.9 29.9



#16
Methylene chloride
Concen: 53.115 ug/L
RT: 2.68 min Scan# 496
Delta R.T. -0.00 min
Lab File: VU033580.D
Acq: 03 Aug 2019 10:05

Tgt Ion: 84 Resp: 113086
Ion Ratio Lower Upper
84 100
86 64.2 44.5 82.7
49 118.4 84.2 156.4





#17

trans-1,2-Dichloroethene

Concen: 51.445 ug/L

RT: 2.96 min Scan# 583

Delta R.T. -0.00 min

Lab File: VU033580.D

Acq: 03 Aug 2019 10:05

Instrument :

MSVOA_U

ClientSampleId :

VSTD05048

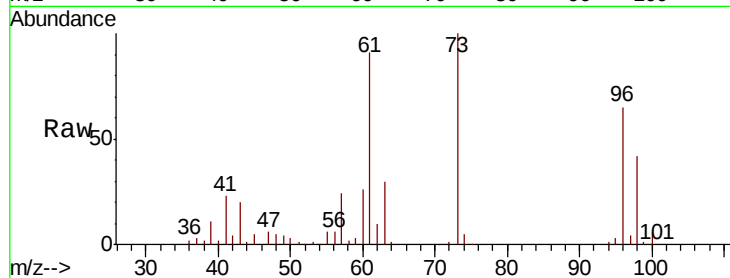
Tgt Ion: 96 Resp: 99935

Ion Ratio Lower Upper

96 100

61 139.4 98.1 182.3

98 63.6 44.2 82.2

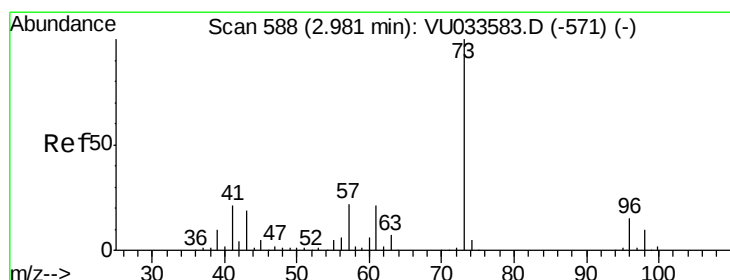
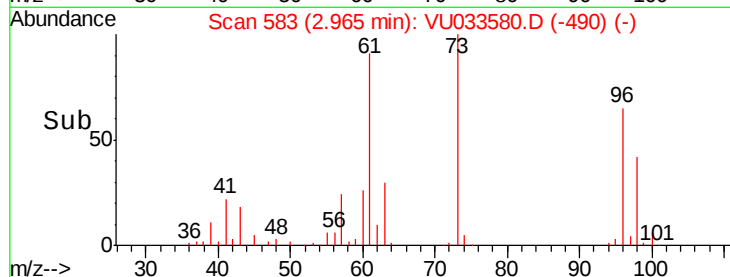
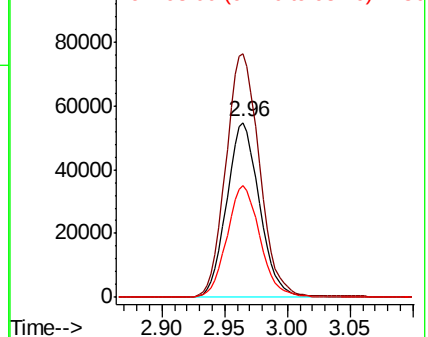


Abundance

Ion 96.00 (95.70 to 96.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 98.00 (97.70 to 98.70): VU0



#18

Methyl tert-butyl Ether

Concen: 53.464 ug/L

RT: 2.98 min Scan# 588

Delta R.T. -0.00 min

Lab File: VU033580.D

Acq: 03 Aug 2019 10:05

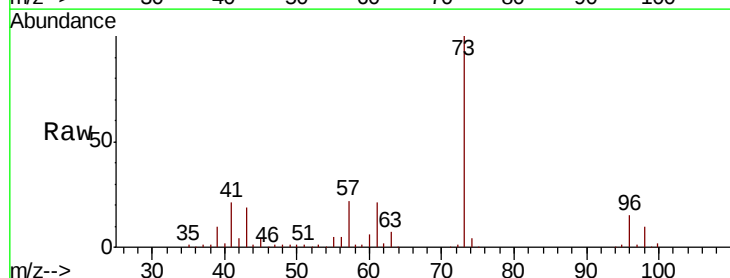
Tgt Ion: 73 Resp: 318784

Ion Ratio Lower Upper

73 100

43 19.2 15.5 23.3

57 22.4 17.8 26.6

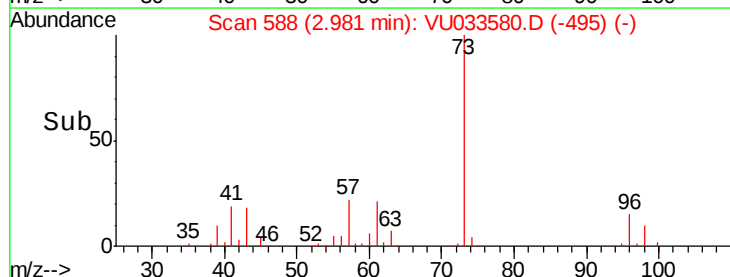
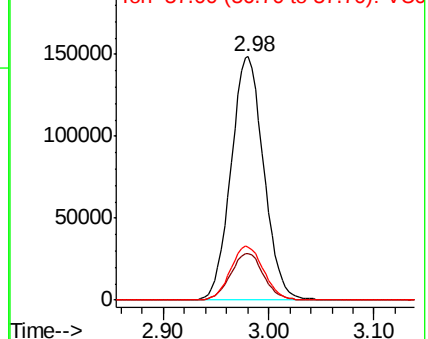


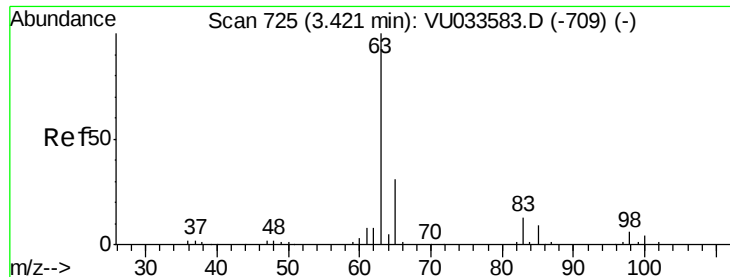
Abundance

Ion 73.00 (72.70 to 73.70): VU0

Ion 43.00 (42.70 to 43.70): VU0

Ion 57.00 (56.70 to 57.70): VU0

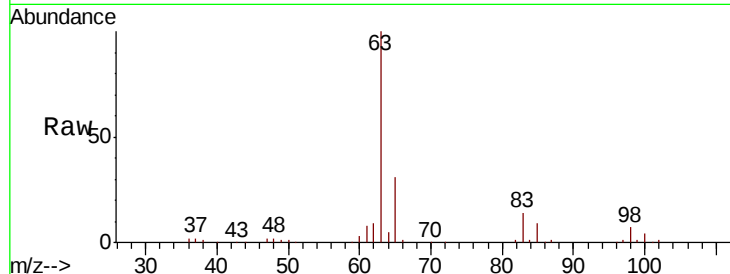




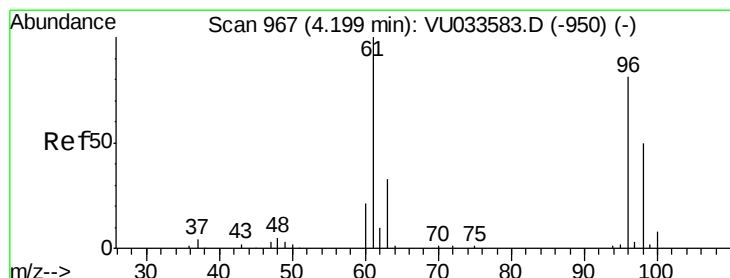
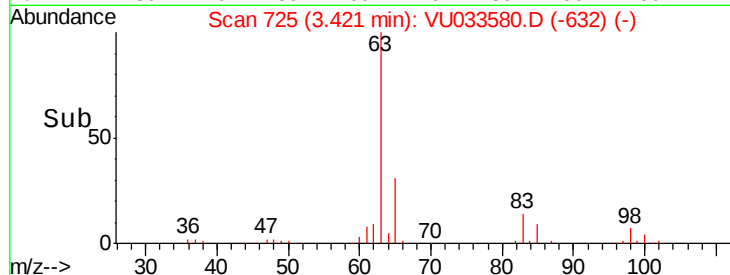
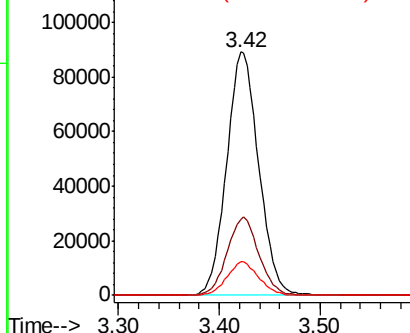
#19
 1,1-Dichloroethane
 Concen: 53.750 ug/L
 RT: 3.42 min Scan# 725
 Delta R.T. -0.00 min
 Lab File: VU033580.D
 Acq: 03 Aug 2019 10:05

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05048

Tgt Ion: 63 Resp: 197291
 Ion Ratio Lower Upper
 63 100
 65 31.4 22.0 40.8
 83 14.0 8.9 16.5

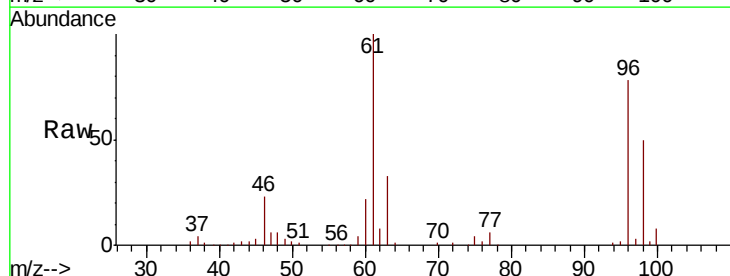


Abundance Ion 63.00 (62.70 to 63.70): VU0
 Ion 65.00 (64.70 to 65.70): VU0
 Ion 83.00 (82.70 to 83.70): VU0

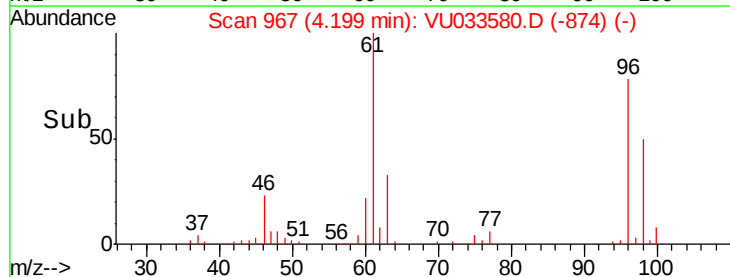
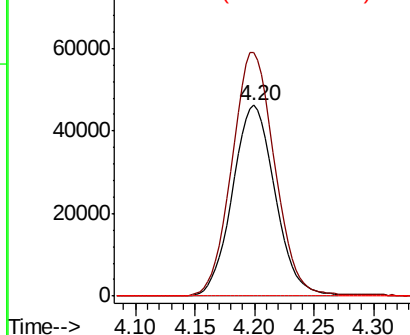


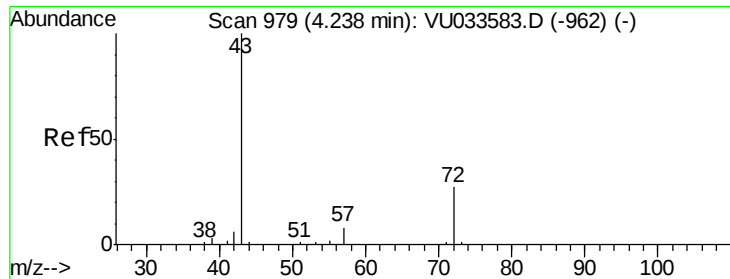
#20
 cis-1,2-Dichloroethene
 Concen: 52.359 ug/L
 RT: 4.20 min Scan# 967
 Delta R.T. -0.00 min
 Lab File: VU033580.D
 Acq: 03 Aug 2019 10:05

Tgt Ion: 96 Resp: 115000
 Ion Ratio Lower Upper
 96 100
 61 127.4 87.4 162.4
 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: 123.027 ug/L

RT: 4.24 min Scan# 981

Delta R.T. 0.01 min

Lab File: VU033580.D

Acq: 03 Aug 2019 10:05

Instrument :

MSVOA_U

ClientSampleId :

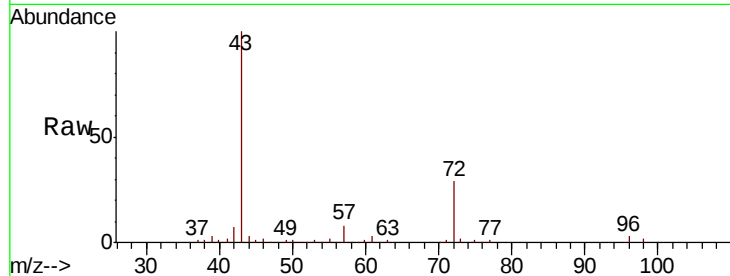
VSTD05048

Tgt Ion: 43 Resp: 210326

Ion Ratio Lower Upper

43 100

72 29.0 14.4 43.4



Abundance Ion 43.00 (42.70 to 43.70): VU033580.D (-986) (-)

Ion 72.00 (71.70 to 72.70): VU033580.D (-986) (-)

4.24

80000

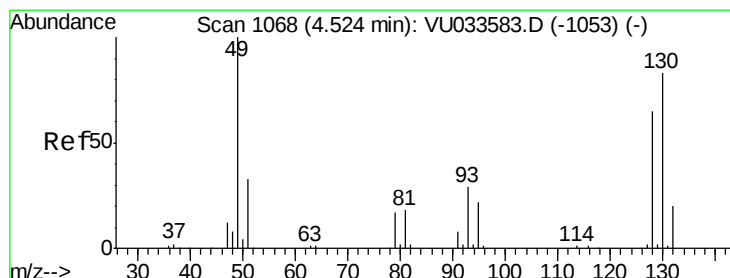
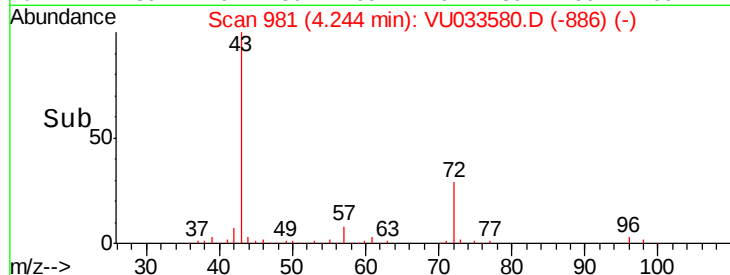
60000

40000

20000

0

Time-->



#23

Bromochloromethane

Concen: 53.606 ug/L

RT: 4.52 min Scan# 1068

Delta R.T. -0.00 min

Lab File: VU033580.D

Acq: 03 Aug 2019 10:05

Tgt Ion: 128 Resp: 60926

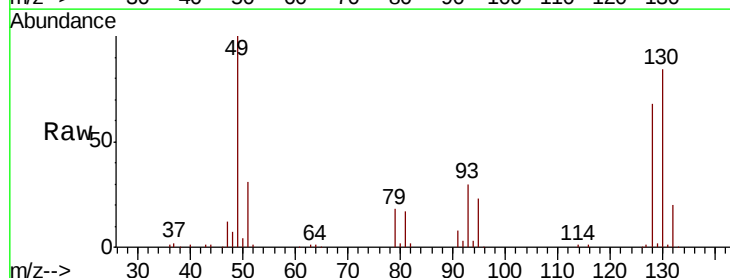
Ion Ratio Lower Upper

128 100

49 147.9 107.9 200.3

130 123.5 89.5 166.1

51 46.3 40.2 60.4



Abundance Ion 128.00 (127.70 to 128.70): VU033580.D (-975) (-)

Ion 49.00 (48.70 to 49.70): VU033580.D (-975) (-)

Ion 130.00 (129.70 to 130.70): VU033580.D (-975) (-)

Ion 51.00 (50.70 to 51.70): VU033580.D (-975) (-)

60000

50000

40000

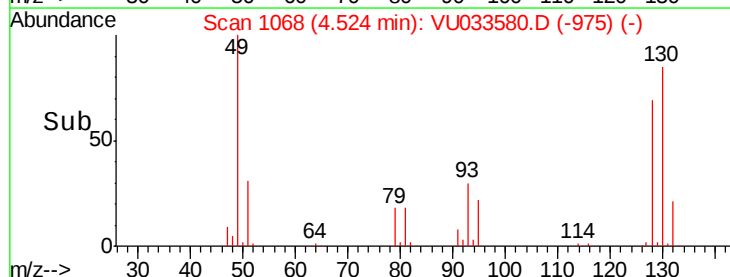
30000

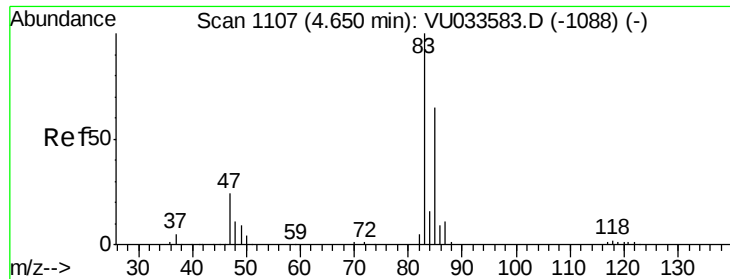
20000

10000

0

Time-->

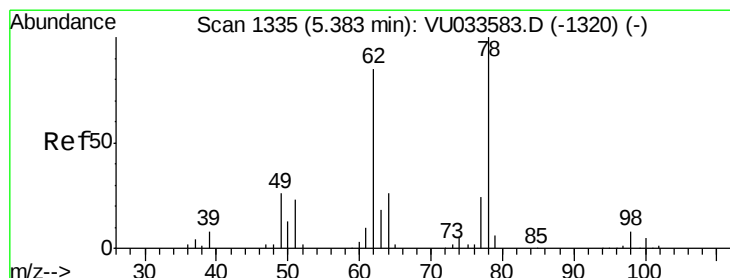
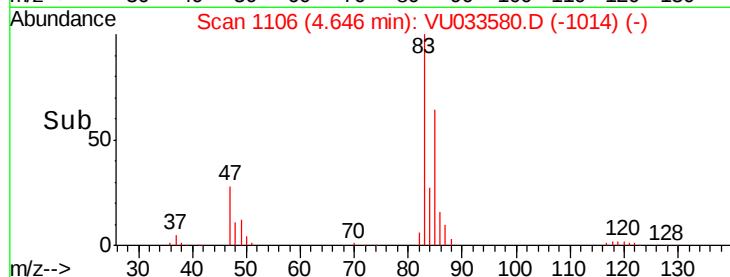
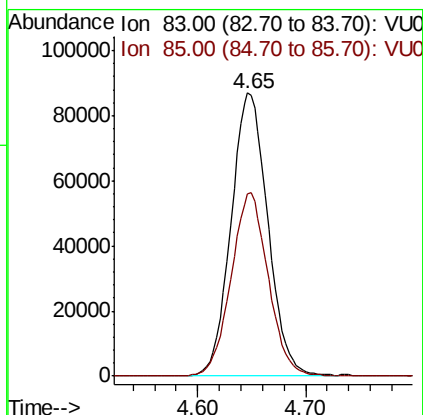
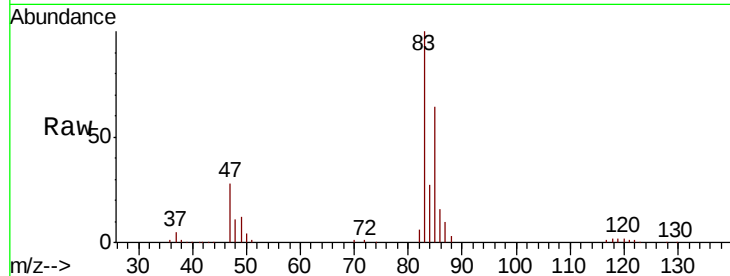




#25
Chloroform
Concen: 53.657 ug/L
RT: 4.65 min Scan# 1106
Delta R.T. -0.00 min
Lab File: VU033580.D
Acq: 03 Aug 2019 10:05

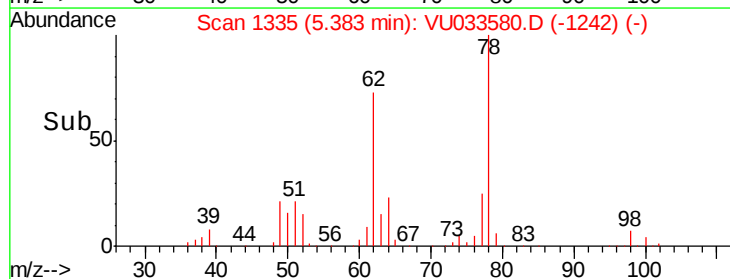
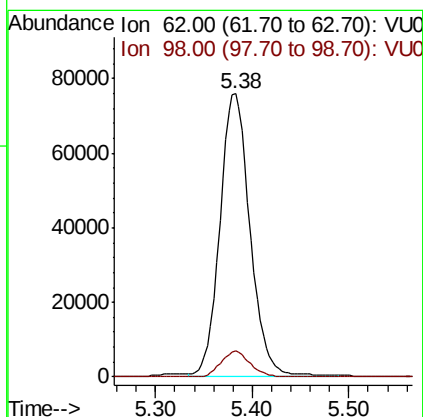
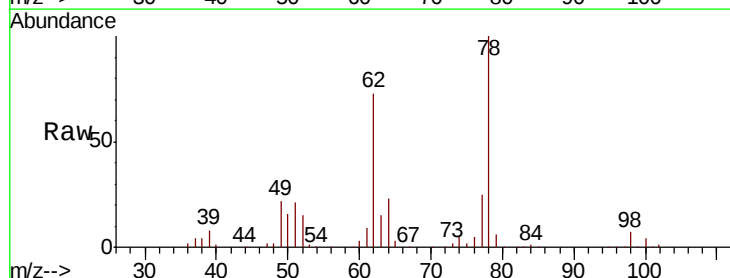
Instrument :
MSVOA_U
ClientSampleId :
VSTD05048

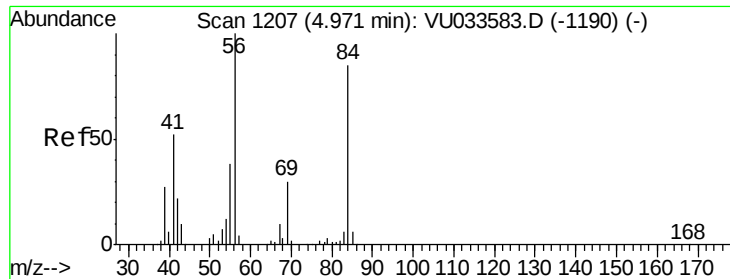
Tgt Ion: 83 Resp: 206836
Ion Ratio Lower Upper
83 100
85 64.3 45.6 84.8



#27
1,2-Dichloroethane
Concen: 55.023 ug/L
RT: 5.38 min Scan# 1335
Delta R.T. -0.00 min
Lab File: VU033580.D
Acq: 03 Aug 2019 10:05

Tgt Ion: 62 Resp: 163807
Ion Ratio Lower Upper
62 100
98 9.2 7.4 11.0

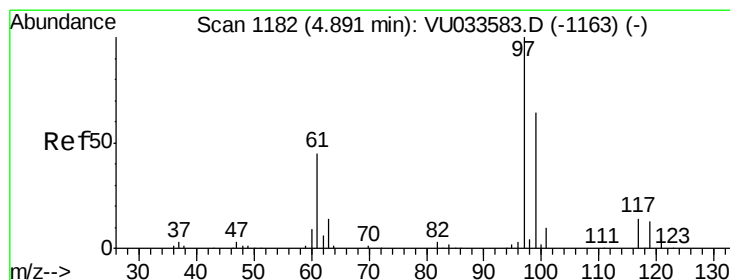
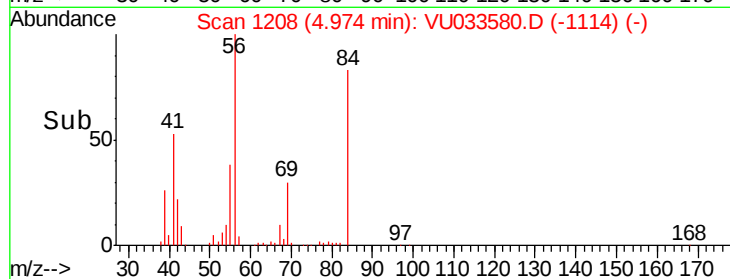
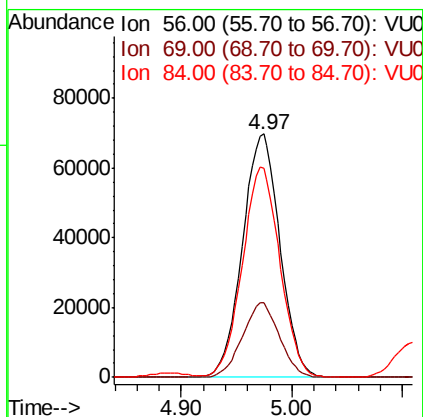
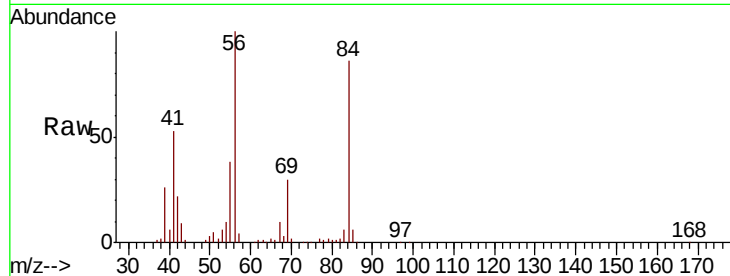




#29
Cyclohexane
Concen: 52.389 ug/L
RT: 4.97 min Scan# 1208
Delta R.T. 0.00 min
Lab File: VU033580.D
Acq: 03 Aug 2019 10:05

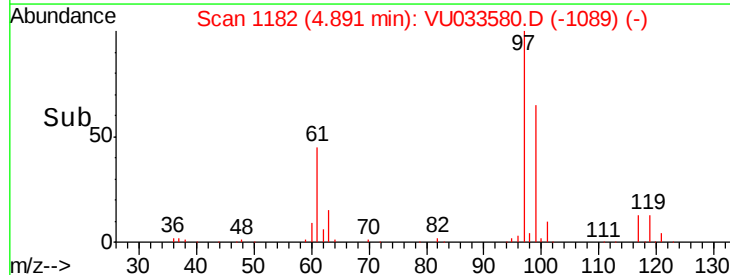
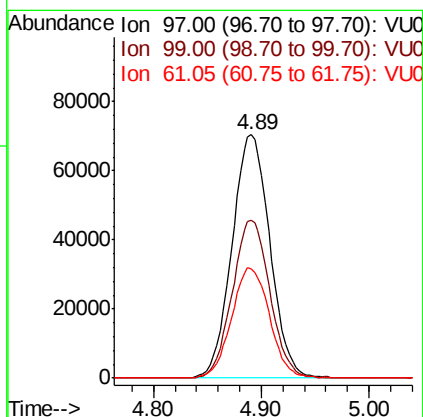
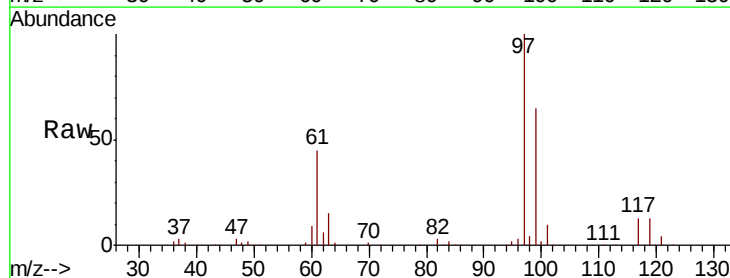
Instrument :
MSVOA_U
ClientSampleId :
VSTD05048

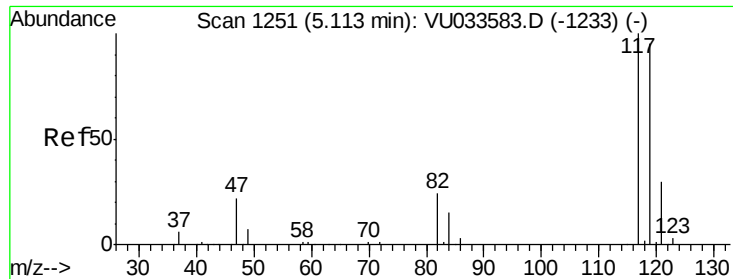
Tgt Ion	Resp	Lower	Upper
56	163896		
69	30.2	24.6	36.8
84	86.7	69.8	104.6



#30
1,1,1-Trichloroethane
Concen: 51.917 ug/L
RT: 4.89 min Scan# 1182
Delta R.T. -0.00 min
Lab File: VU033580.D
Acq: 03 Aug 2019 10:05

Tgt Ion	Resp	Lower	Upper
97	172213		
99	64.3	51.5	77.3
61	45.4	36.1	54.1

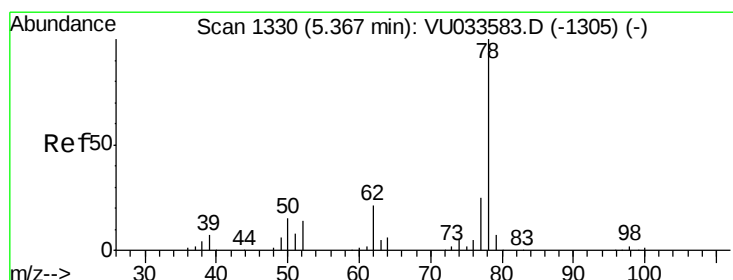
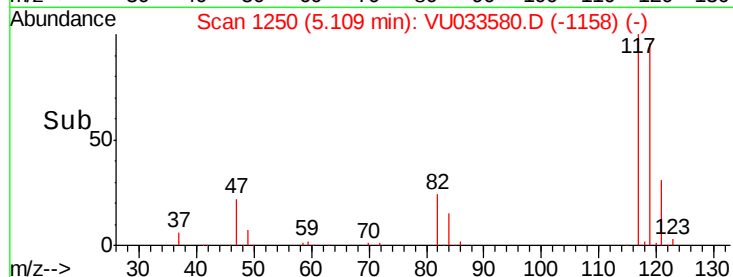
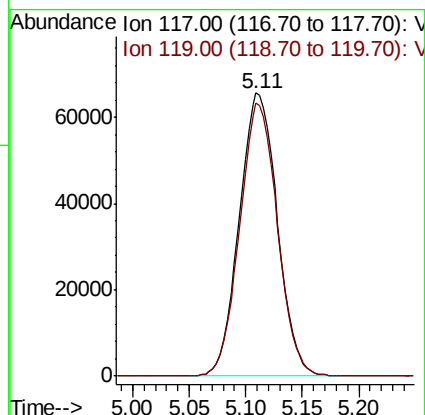
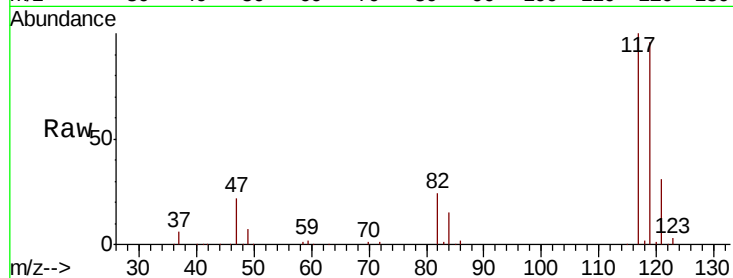




#31
Carbon tetrachloride
Concen: 53.029 ug/L
RT: 5.11 min Scan# 1250
Delta R.T. -0.00 min
Lab File: VU033580.D
Acq: 03 Aug 2019 10:05

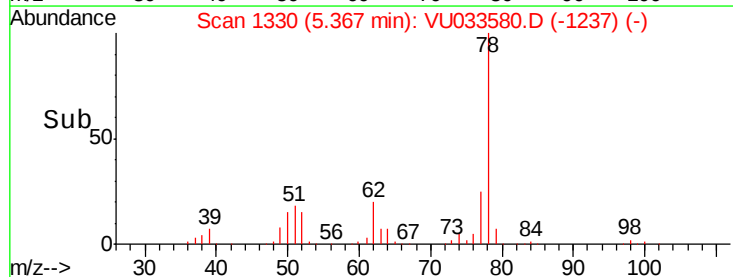
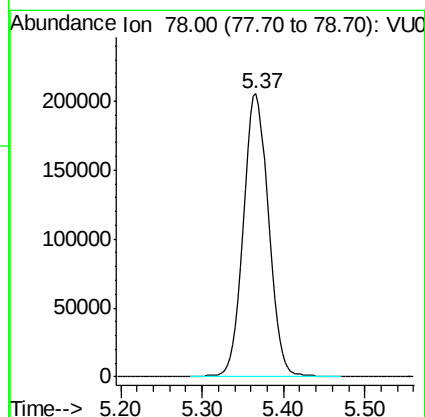
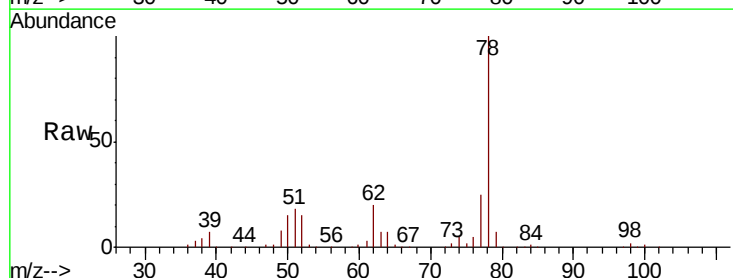
Instrument :
MSVOA_U
ClientSampleId :
VSTD05048

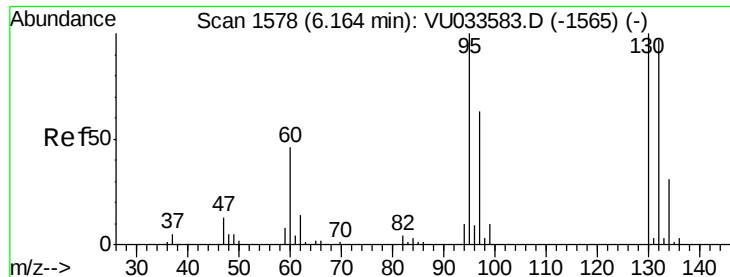
Tgt Ion:117 Resp: 153571
Ion Ratio Lower Upper
117 100
119 95.5 76.9 115.3



#33
Benzene
Concen: 52.813 ug/L
RT: 5.37 min Scan# 1330
Delta R.T. -0.00 min
Lab File: VU033580.D
Acq: 03 Aug 2019 10:05

Tgt Ion: 78 Resp: 438804





#34

Trichloroethene

Concen: 50.960 ug/L

RT: 6.16 min Scan# 1578

Delta R.T. -0.00 min

Lab File: VU033580.D

Acq: 03 Aug 2019 10:05

Instrument :

MSVOA_U

ClientSampleId :

VSTD05048

Tgt Ion: 95 Resp: 111550

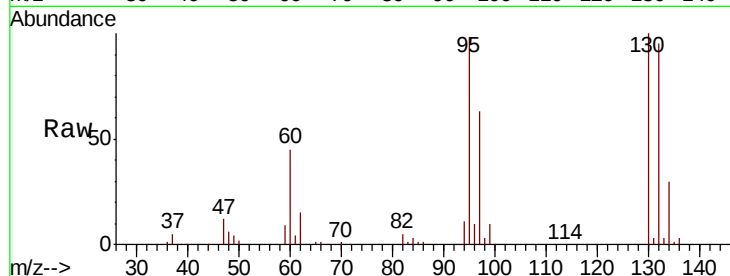
Ion Ratio Lower Upper

95 100

97 63.7 44.2 82.2

132 96.2 68.3 126.8

130 101.6 70.1 130.3

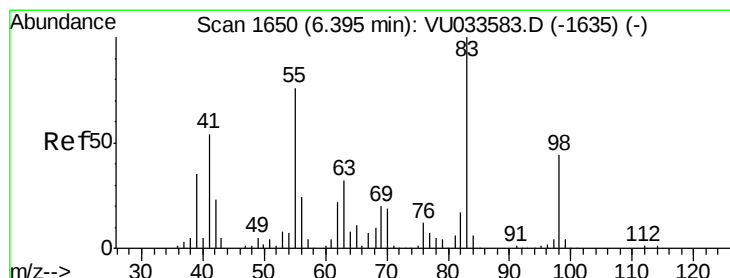
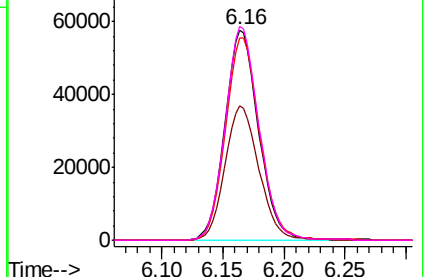
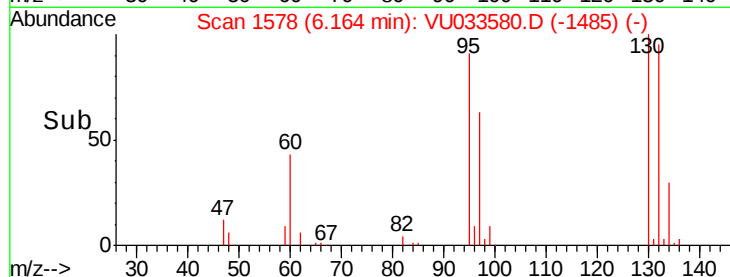


Abundance Ion 95.00 (94.70 to 95.70): VU0

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: 52.437 ug/L

RT: 6.40 min Scan# 1650

Delta R.T. -0.00 min

Lab File: VU033580.D

Acq: 03 Aug 2019 10:05

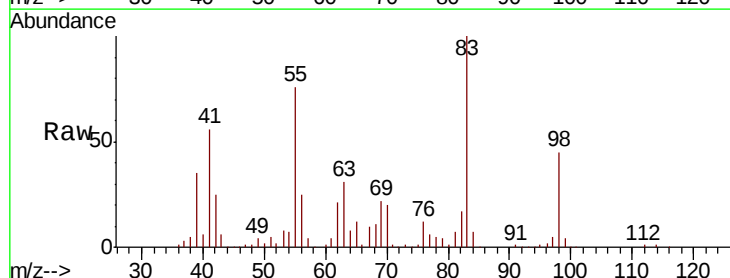
Tgt Ion: 83 Resp: 178746

Ion Ratio Lower Upper

83 100

55 76.5 60.7 91.1

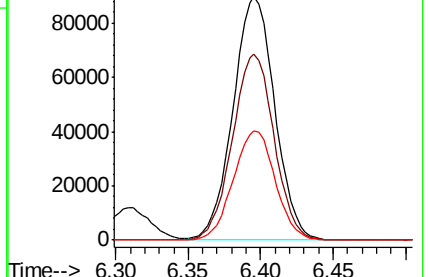
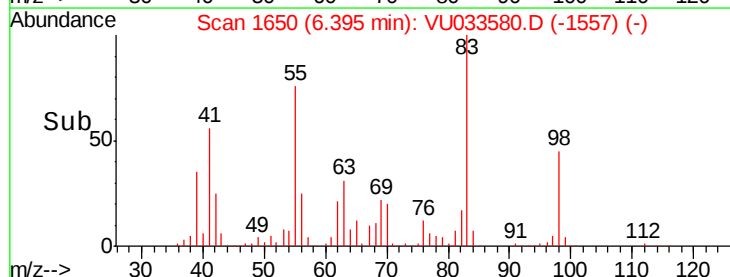
98 45.0 35.4 53.2

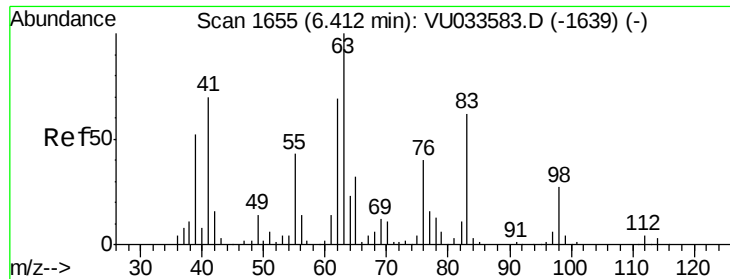


Abundance Ion 83.00 (82.70 to 83.70): VU0

Ion 55.00 (54.70 to 55.70): VU0

Ion 98.00 (97.70 to 98.70): VU0

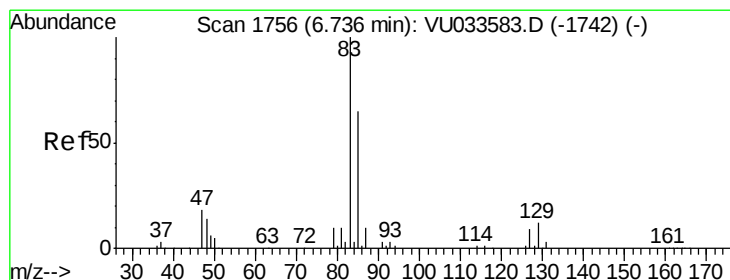
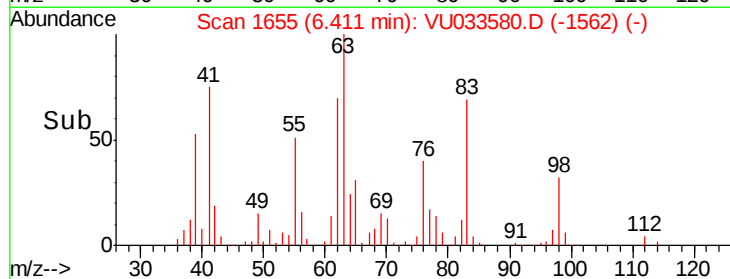
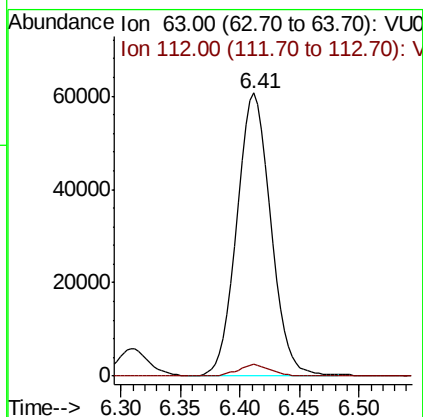
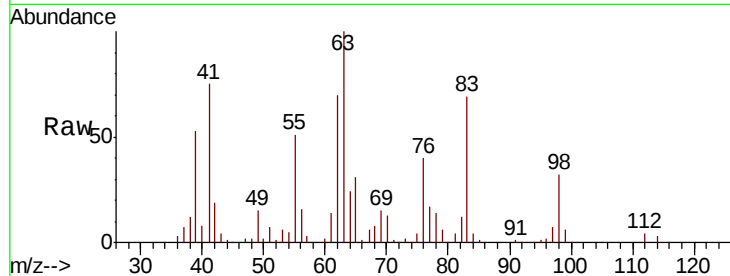




#37
 1,2-Dichloropropane
 Concen: 53.304 ug/L
 RT: 6.41 min Scan# 1655
 Delta R.T. -0.00 min
 Lab File: VU033580.D
 Acq: 03 Aug 2019 10:05

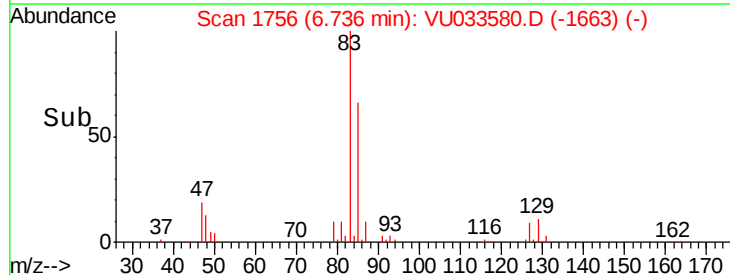
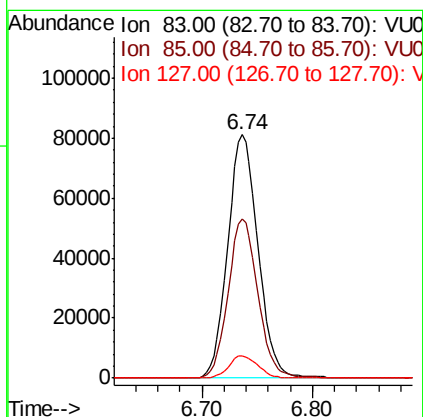
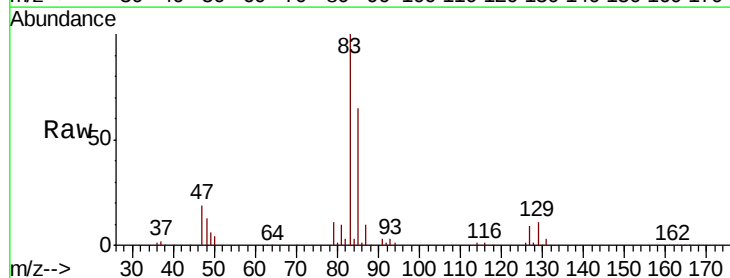
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05048

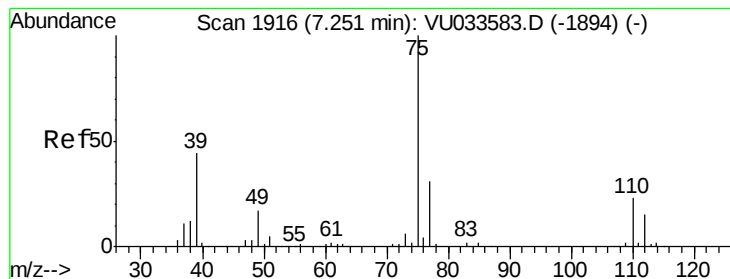
Tgt Ion: 63 Resp: 119612
 Ion Ratio Lower Upper
 63 100
 112 3.9 3.0 4.4



#38
 Bromodichloromethane
 Concen: 53.614 ug/L
 RT: 6.74 min Scan# 1756
 Delta R.T. -0.00 min
 Lab File: VU033580.D
 Acq: 03 Aug 2019 10:05

Tgt Ion: 83 Resp: 154883
 Ion Ratio Lower Upper
 83 100
 85 65.3 45.5 84.5
 127 9.2 6.9 10.3



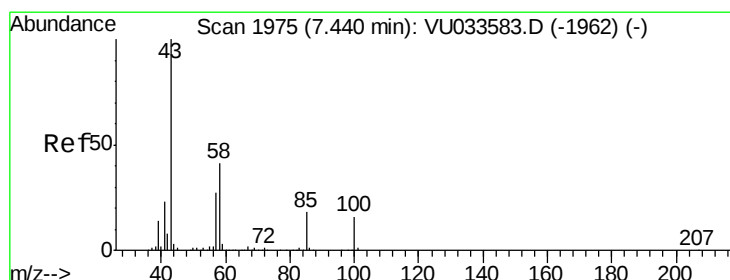
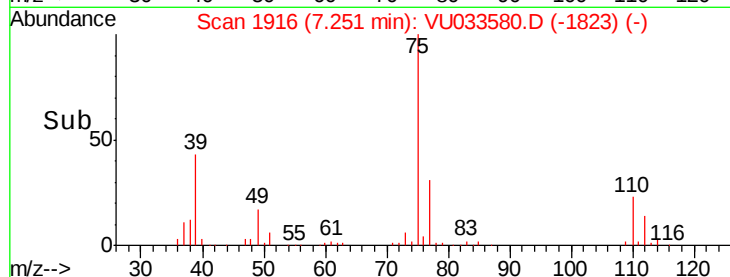
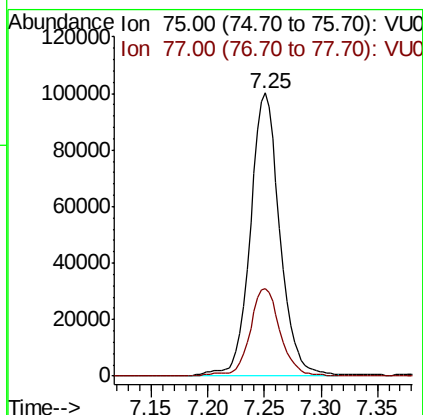
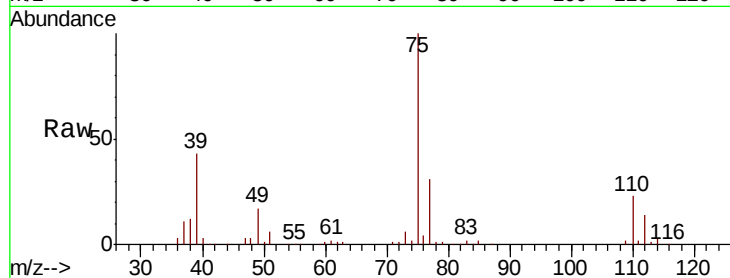


#39

cis-1,3-Dichloropropene
 Concen: 52.359 ug/L
 RT: 7.25 min Scan# 1916
 Delta R.T. -0.00 min
 Lab File: VU033580.D
 Acq: 03 Aug 2019 10:05

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05048

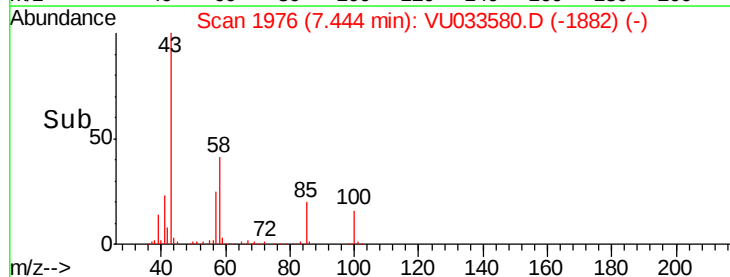
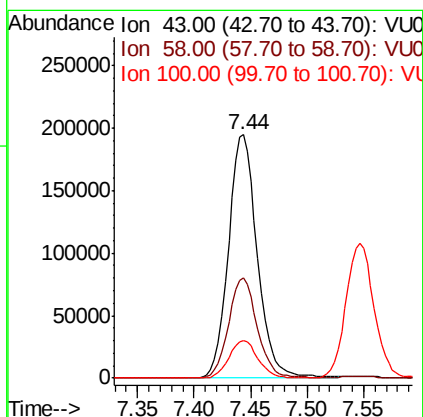
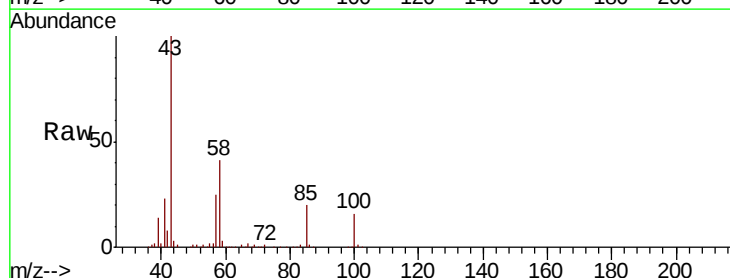
Tgt Ion: 75 Resp: 182205
 Ion Ratio Lower Upper
 75 100
 77 31.1 21.9 40.7

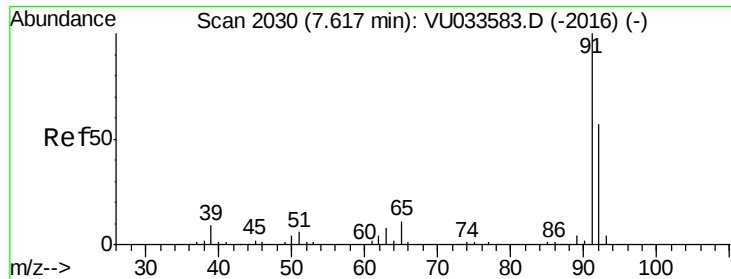


#40

4-Methyl-2-pentanone
 Concen: 110.910 ug/L
 RT: 7.44 min Scan# 1976
 Delta R.T. 0.00 min
 Lab File: VU033580.D
 Acq: 03 Aug 2019 10:05

Tgt Ion: 43 Resp: 345470
 Ion Ratio Lower Upper
 43 100
 58 41.1 33.0 49.4
 100 15.6 12.4 18.6





#42

Toluene

Concen: 53.597 ug/L

RT: 7.62 min Scan# 2030

Delta R.T. -0.00 min

Lab File: VU033580.D

Acq: 03 Aug 2019 10:05

Instrument :

MSVOA_U

ClientSampleId :

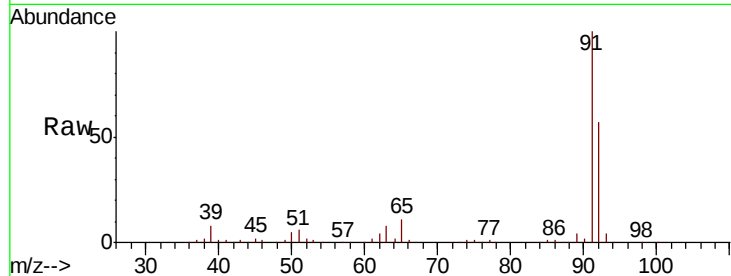
VSTD05048

Tgt Ion: 91 Resp: 477933

Ion Ratio Lower Upper

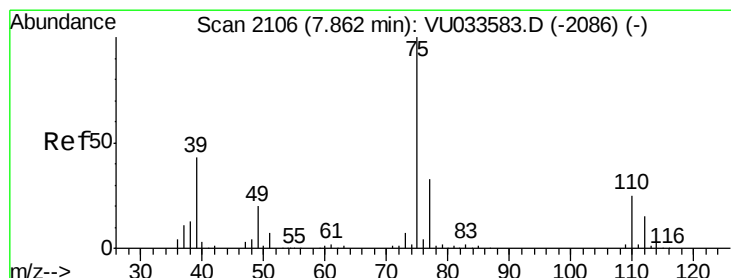
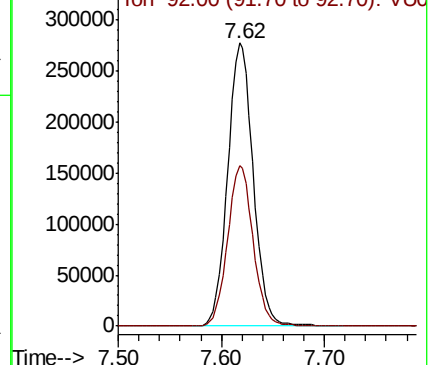
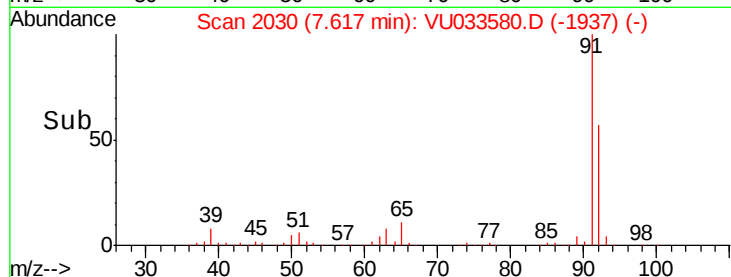
91 100

92 56.8 40.2 74.6



Abundance Ion 91.00 (90.70 to 91.70): VU033580.D (-1937) (-)

Ion 92.00 (91.70 to 92.70): VU033580.D (-1937) (-)



#44

trans-1,3-Dichloropropene

Concen: 53.541 ug/L

RT: 7.86 min Scan# 2106

Delta R.T. -0.00 min

Lab File: VU033580.D

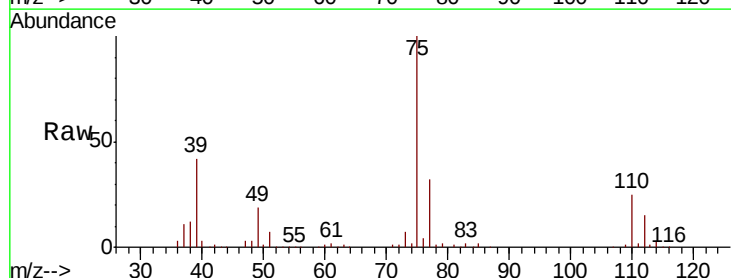
Acq: 03 Aug 2019 10:05

Tgt Ion: 75 Resp: 167740

Ion Ratio Lower Upper

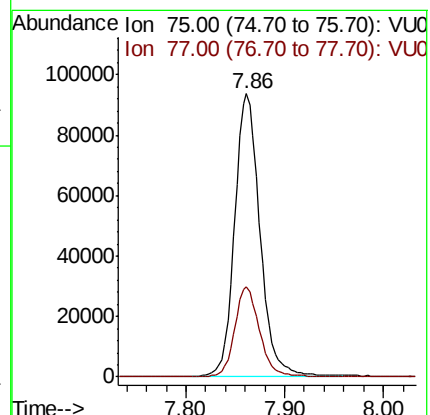
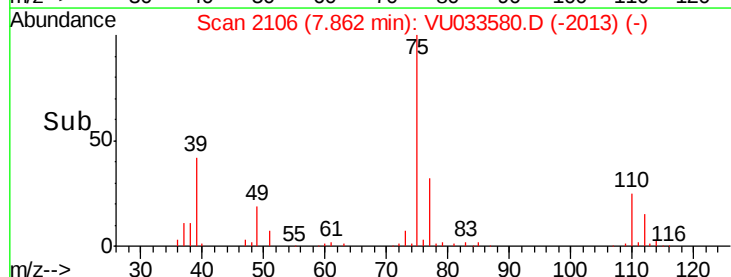
75 100

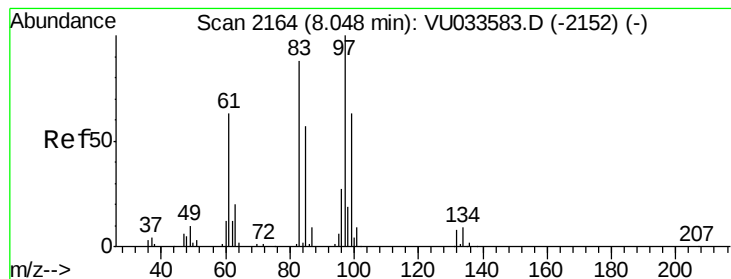
77 31.8 23.4 43.4



Abundance Ion 75.00 (74.70 to 75.70): VU033580.D (-2013) (-)

Ion 77.00 (76.70 to 77.70): VU033580.D (-2013) (-)





#45

1,1,2-Trichloroethane

Concen: 53.706 ug/L

RT: 8.05 min Scan# 2164

Delta R.T. -0.00 min

Lab File: VU033580.D

Acq: 03 Aug 2019 10:05

Instrument :

MSVOA_U

ClientSampleId :

VSTD05048

Tgt Ion: 97 Resp: 113878

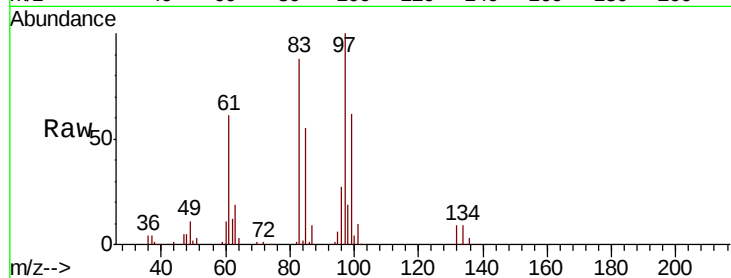
Ion Ratio Lower Upper

97 100

99 62.2 43.9 81.5

83 88.2 61.9 114.9

85 55.2 39.8 73.8

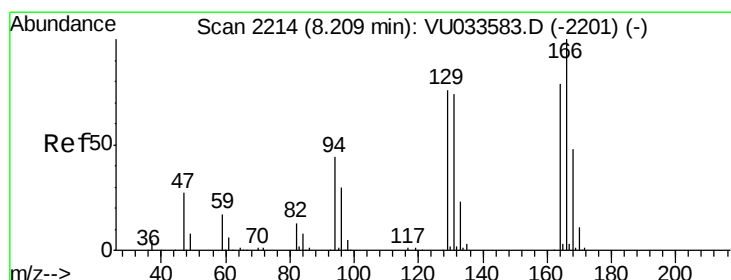
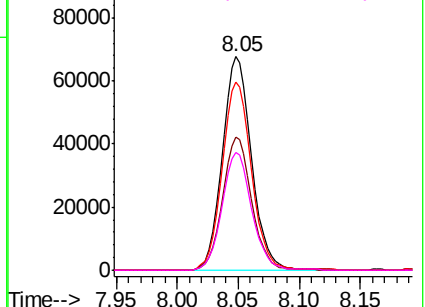
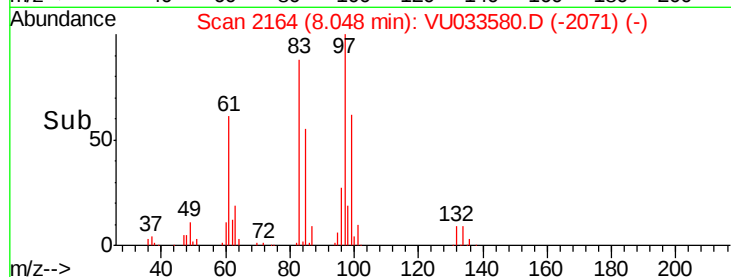


Abundance Ion 97.00 (96.70 to 97.70): VU0

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: 51.540 ug/L

RT: 8.21 min Scan# 2214

Delta R.T. -0.00 min

Lab File: VU033580.D

Acq: 03 Aug 2019 10:05

Tgt Ion: 164 Resp: 91715

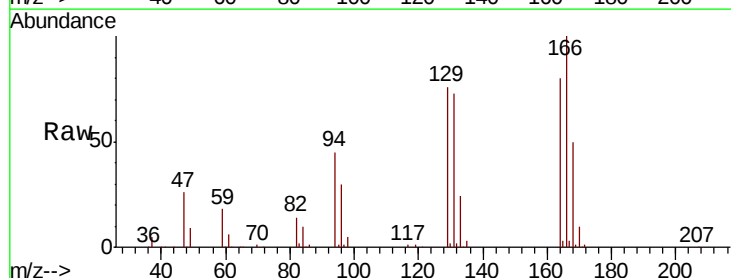
Ion Ratio Lower Upper

164 100

129 95.1 67.0 124.4

131 91.8 65.0 120.6

166 125.5 88.1 163.7

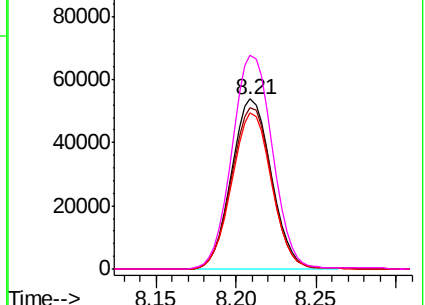
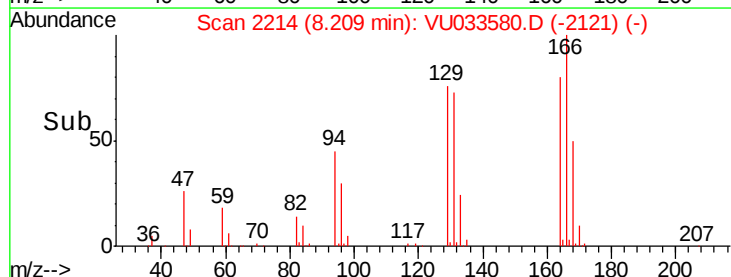


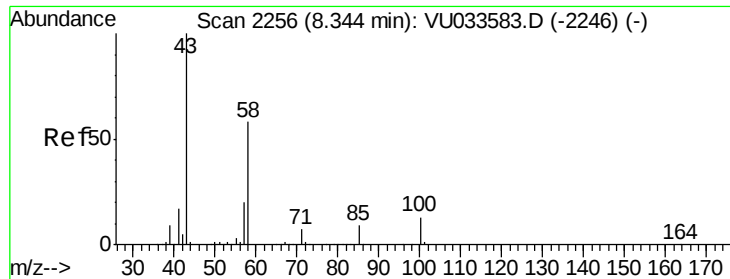
Abundance Ion 164.00 (163.70 to 164.70): V

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

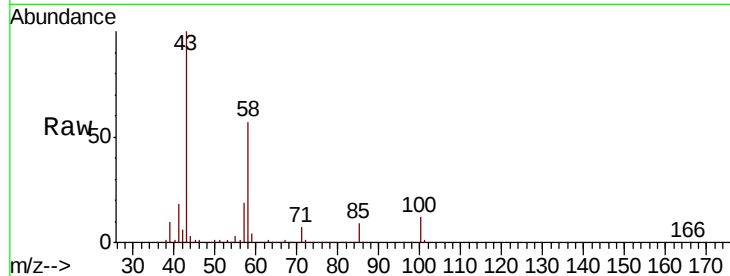




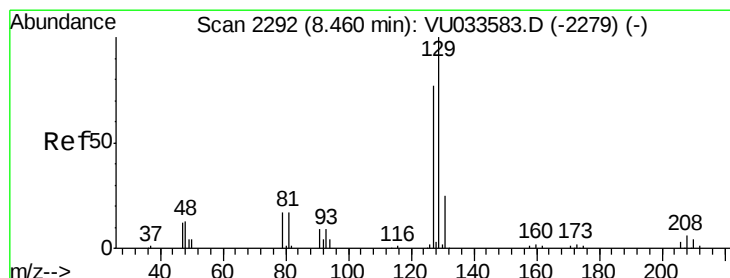
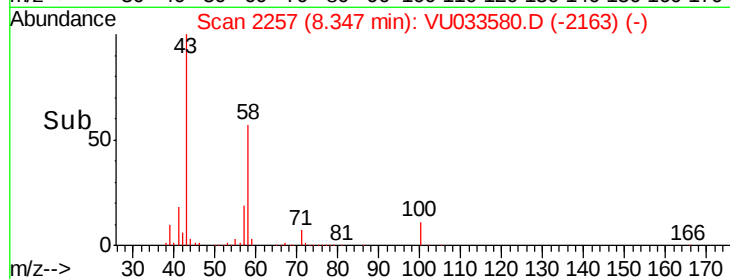
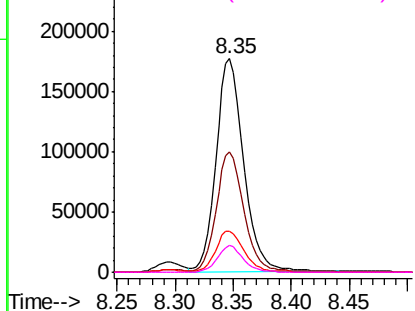
#48
2-Hexanone
Concen: 116.818 ug/L
RT: 8.35 min Scan# 2257
Delta R.T. 0.00 min
Lab File: VU033580.D
Acq: 03 Aug 2019 10:05

Instrument :
MSVOA_U
ClientSampleId :
VSTD05048

Tgt Ion:	43	Resp:	292998
Ion	Ratio	Lower	Upper
43	100		
58	56.6	45.9	68.9
57	19.7	16.2	24.2
100	11.7	9.9	14.9

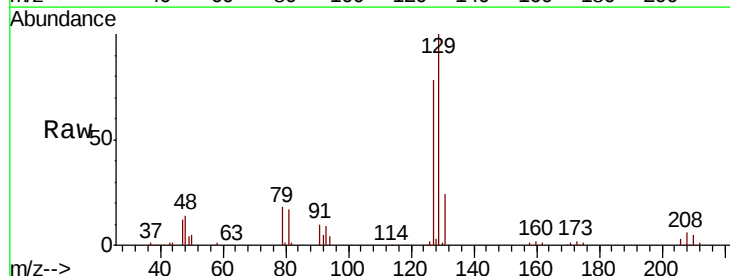


Abundance Ion 43.00 (42.70 to 43.70): VU0
Ion 58.00 (57.70 to 58.70): VU0
Ion 57.00 (56.70 to 57.70): VU0
Ion 100.00 (99.70 to 100.70): VU0

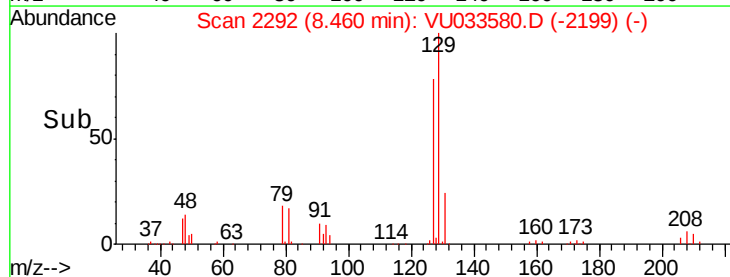
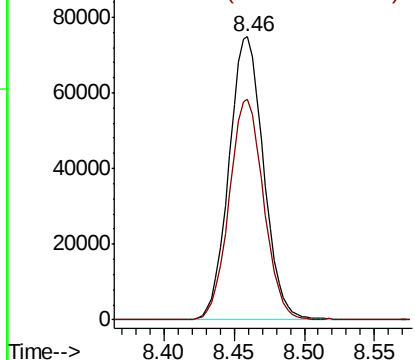


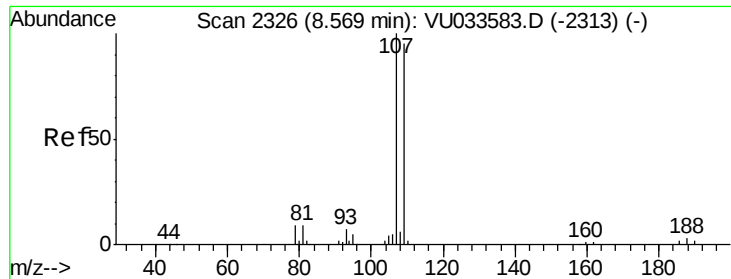
#49
Dibromochloromethane
Concen: 53.464 ug/L
RT: 8.46 min Scan# 2292
Delta R.T. -0.00 min
Lab File: VU033580.D
Acq: 03 Aug 2019 10:05

Tgt Ion:	129	Resp:	128735
Ion	Ratio	Lower	Upper
129	100		
127	78.0	53.7	99.7



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

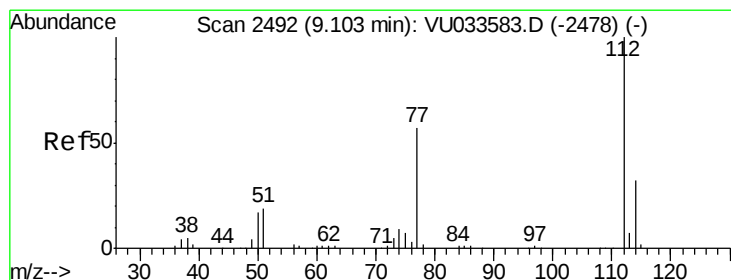
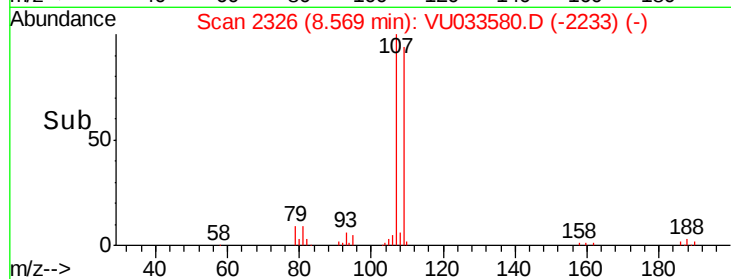
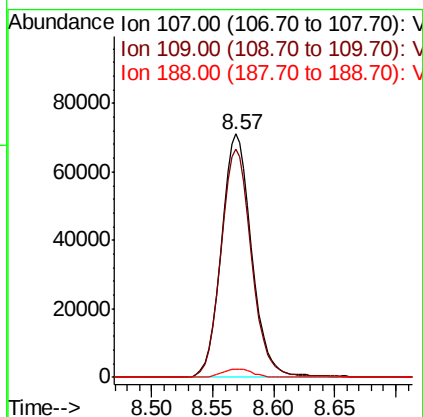
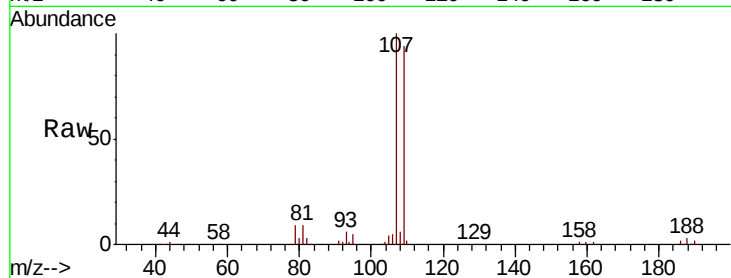




#50
1,2-Dibromoethane
Concen: 53.116 ug/L
RT: 8.57 min Scan# 2326
Delta R.T. -0.00 min
Lab File: VU033580.D
Acq: 03 Aug 2019 10:05

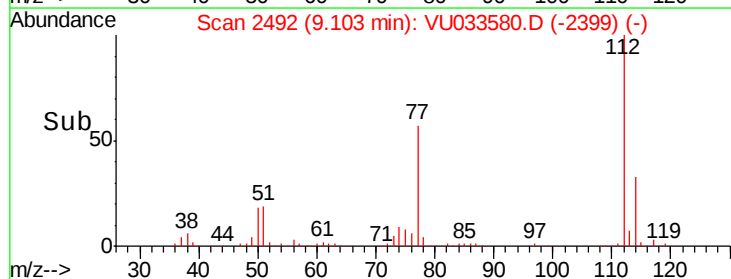
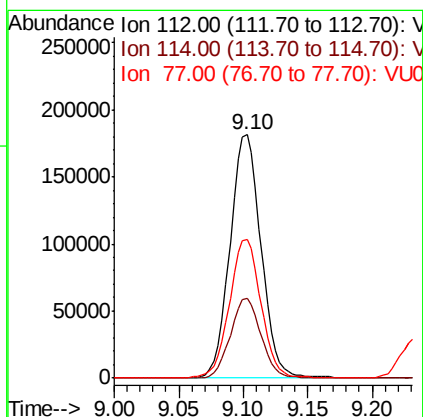
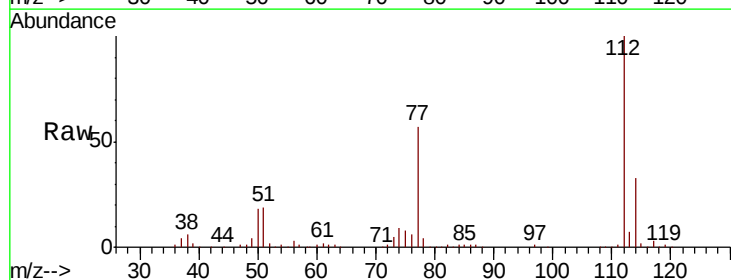
Instrument :
MSVOA_U
ClientSampleId :
VSTD05048

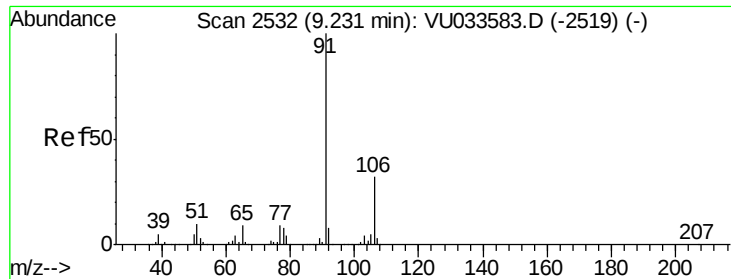
Tgt Ion:107 Resp: 124008
Ion Ratio Lower Upper
107 100
109 94.0 66.6 123.6
188 3.4 2.6 4.0



#51
Chlorobenzene
Concen: 52.089 ug/L
RT: 9.10 min Scan# 2492
Delta R.T. -0.00 min
Lab File: VU033580.D
Acq: 03 Aug 2019 10:05

Tgt Ion:112 Resp: 303902
Ion Ratio Lower Upper
112 100
114 32.5 22.3 41.3
77 57.1 46.3 69.5





#52

Ethylbenzene

Concen: 53.178 ug/L

RT: 9.23 min Scan# 2533

Delta R.T. 0.00 min

Lab File: VU033580.D

Acq: 03 Aug 2019 10:05

Instrument :

MSVOA_U

ClientSampleId :

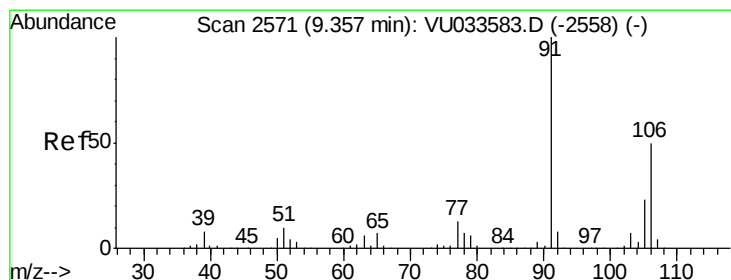
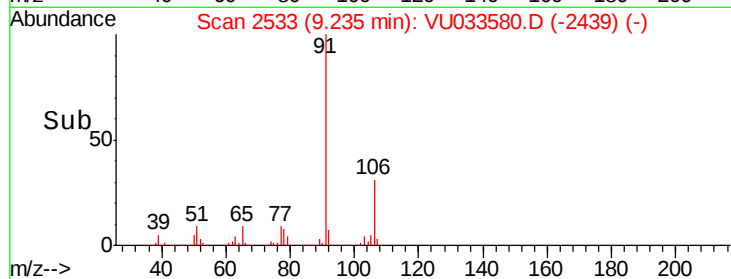
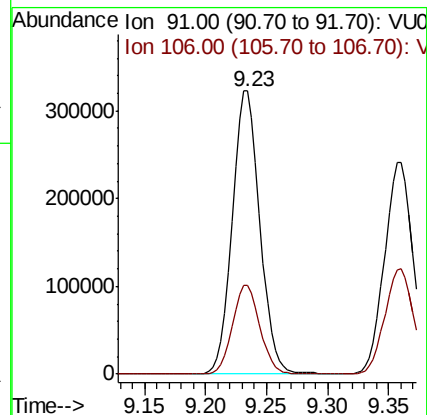
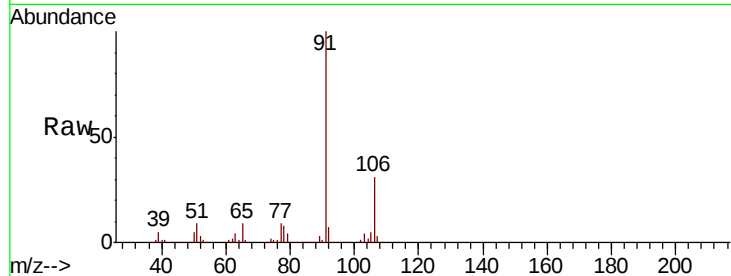
VSTD05048

Tgt Ion: 91 Resp: 510617

Ion Ratio Lower Upper

91 100

106 31.3 22.1 41.1



#53

m,p-Xylene

Concen: 53.452 ug/L

RT: 9.36 min Scan# 2572

Delta R.T. 0.00 min

Lab File: VU033580.D

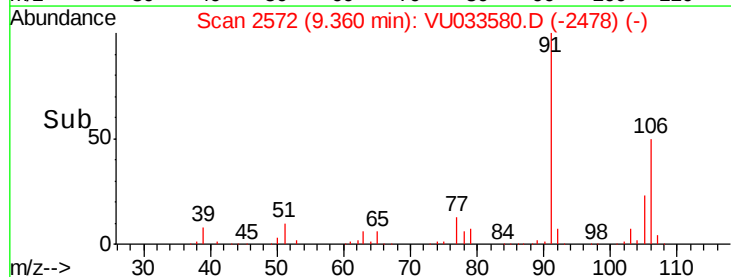
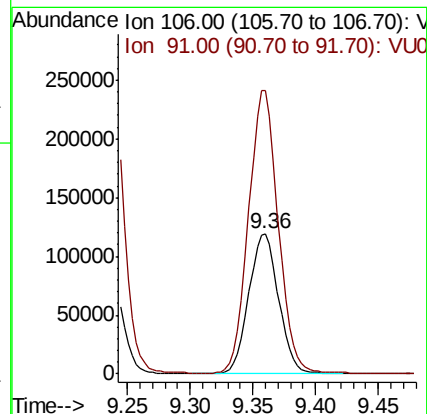
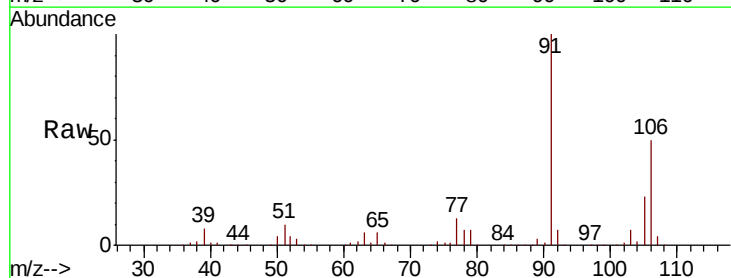
Acq: 03 Aug 2019 10:05

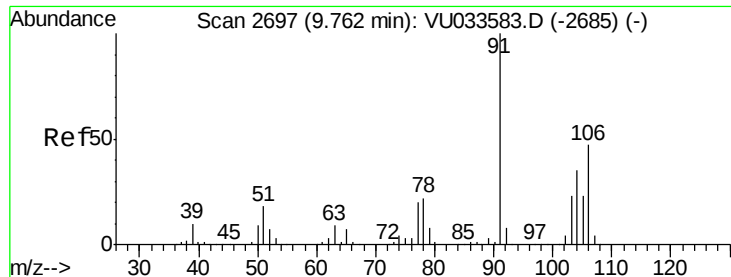
Tgt Ion: 106 Resp: 197557

Ion Ratio Lower Upper

106 100

91 201.5 141.2 262.2





#54

o-xylene

Concen: 54.130 ug/L

RT: 9.76 min Scan# 2697

Delta R.T. -0.00 min

Lab File: VU033580.D

Acq: 03 Aug 2019 10:05

Instrument :

MSVOA_U

ClientSampleId :

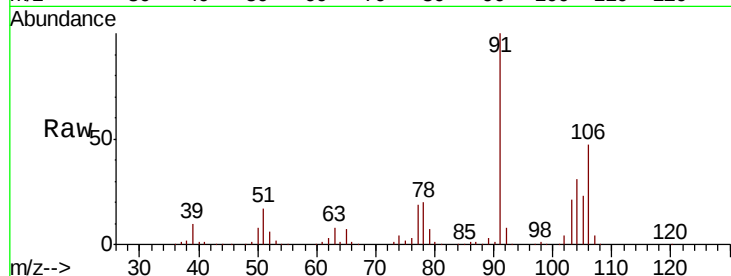
VSTD05048

Tgt Ion:106 Resp: 192981

Ion Ratio Lower Upper

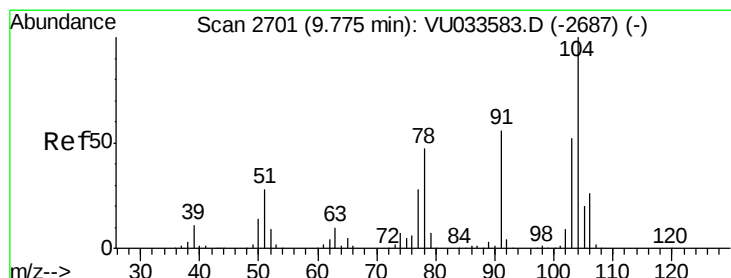
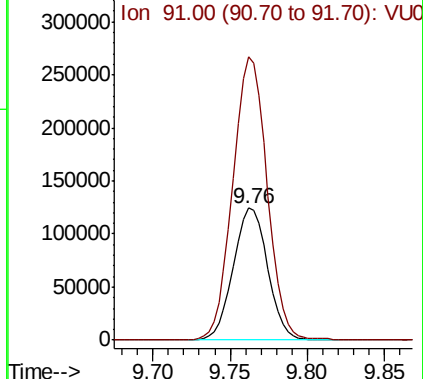
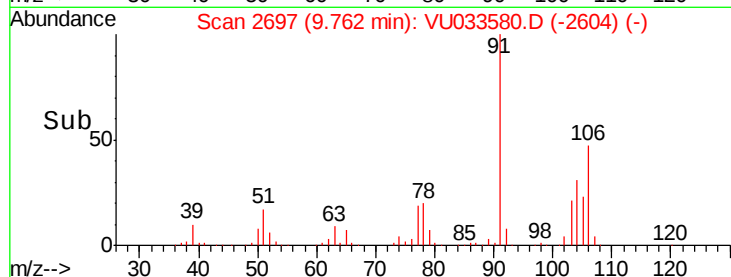
106 100

91 214.0 148.9 276.5



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VU0



#55

Styrene

Concen: 55.327 ug/L

RT: 9.77 min Scan# 2701

Delta R.T. -0.00 min

Lab File: VU033580.D

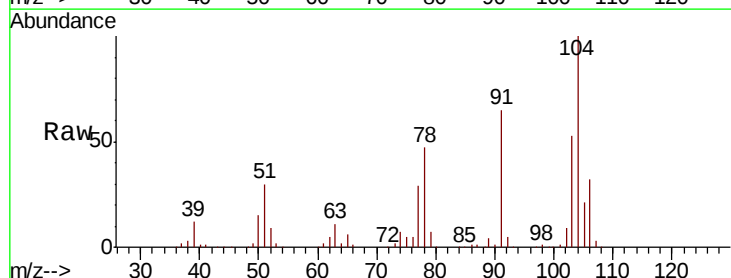
Acq: 03 Aug 2019 10:05

Tgt Ion:104 Resp: 335275

Ion Ratio Lower Upper

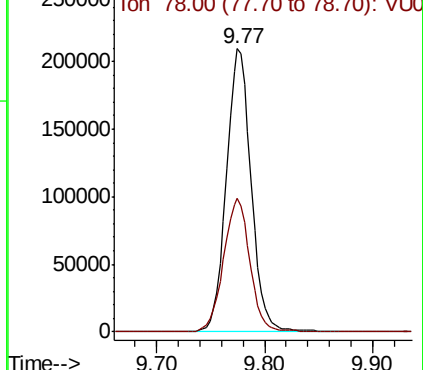
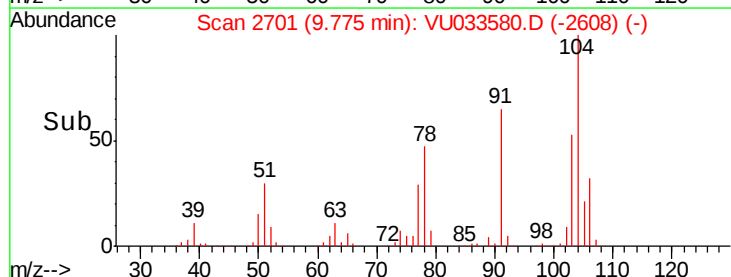
104 100

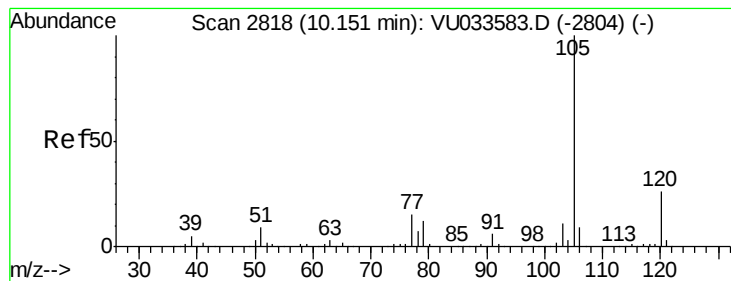
78 47.0 32.8 60.8



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VU0





#56

Isopropylbenzene

Concen: 53.597 ug/L

RT: 10.15 min Scan# 2818

Delta R.T. -0.00 min

Lab File: VU033580.D

Acq: 03 Aug 2019 10:05

Instrument :

MSVOA_U

ClientSampleId :

VSTD05048

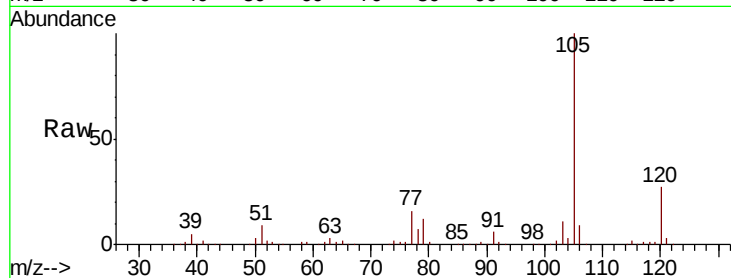
Tgt Ion: 105 Resp: 500404

Ion Ratio Lower Upper

105 100

120 26.6 21.1 31.7

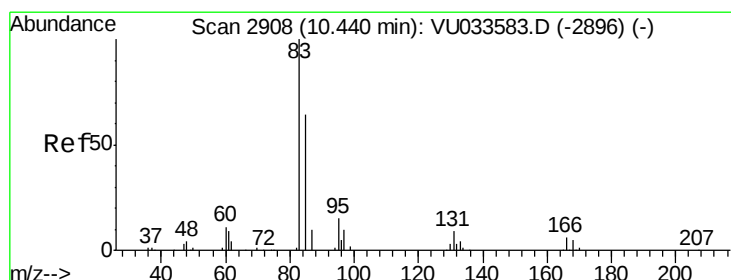
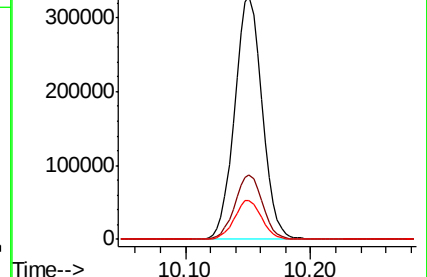
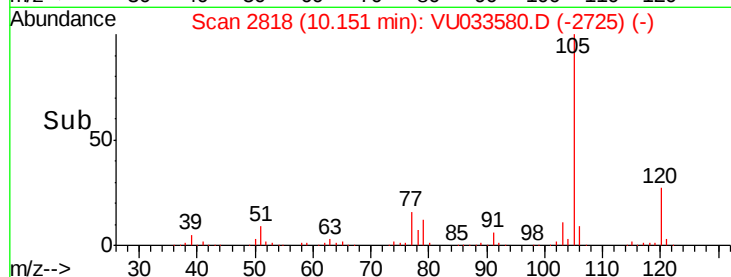
77 16.0 12.6 18.8



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: 53.585 ug/L

RT: 10.44 min Scan# 2908

Delta R.T. -0.00 min

Lab File: VU033580.D

Acq: 03 Aug 2019 10:05

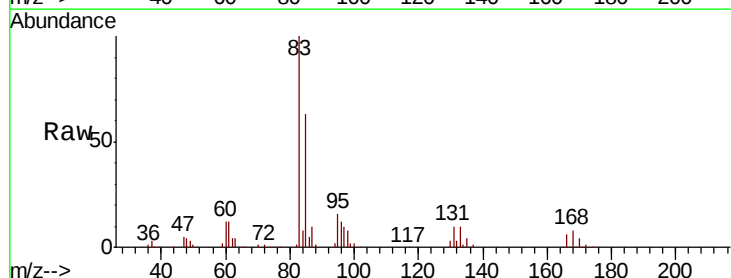
Tgt Ion: 83 Resp: 205316

Ion Ratio Lower Upper

83 100

85 63.2 45.1 83.9

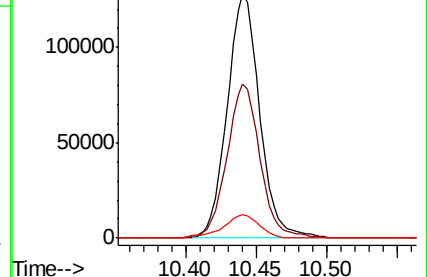
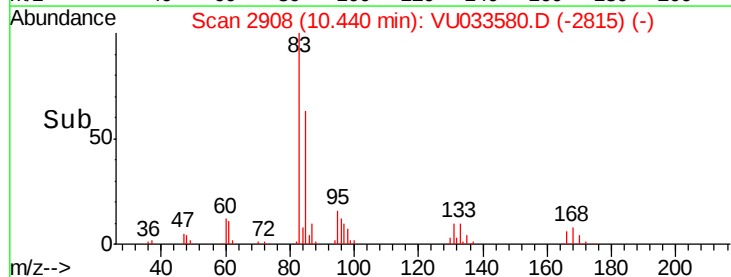
131 9.8 7.4 11.2

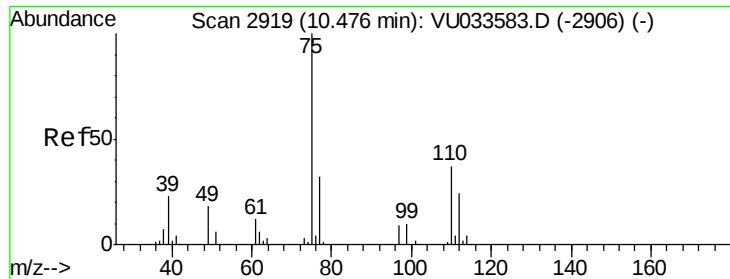


Abundance Ion 83.00 (82.70 to 83.70): V

Ion 85.00 (84.70 to 85.70): V

Ion 131.00 (130.70 to 131.70): V





#59

1,2,3-Trichloropropane

Concen: 53.970 ug/L

RT: 10.48 min Scan# 2919

Delta R.T. -0.00 min

Lab File: VU033580.D

Acq: 03 Aug 2019 10:05

Instrument :

MSVOA_U

ClientSampleId :

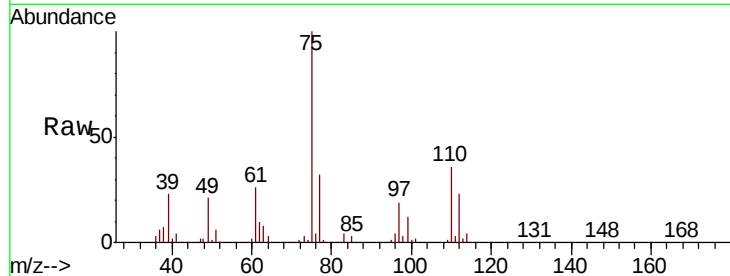
VSTD05048

Tgt Ion: 75 Resp: 159835

Ion Ratio Lower Upper

75 100

77 32.0 25.1 37.7



Abundance Ion 75.00 (74.70 to 75.70): VU033583.D (-2906) (-)

Ion 77.00 (76.70 to 77.70): VU033583.D (-2906) (-)

10.48

80000

60000

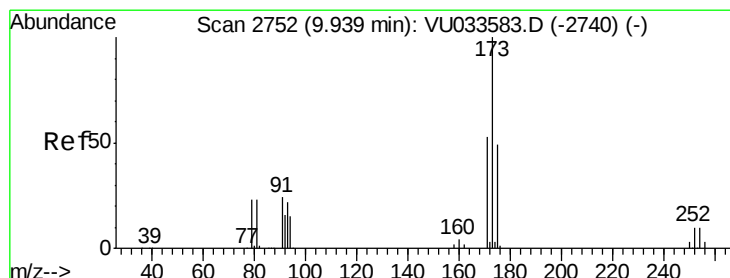
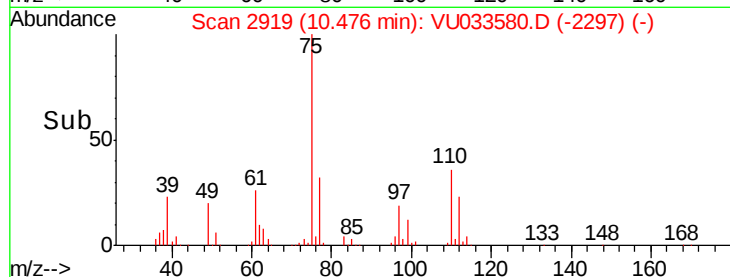
40000

20000

0

Time-->

10.40 10.45 10.50 10.55



#61

Bromoform

Concen: 52.648 ug/L

RT: 9.94 min Scan# 2753

Delta R.T. 0.00 min

Lab File: VU033580.D

Acq: 03 Aug 2019 10:05

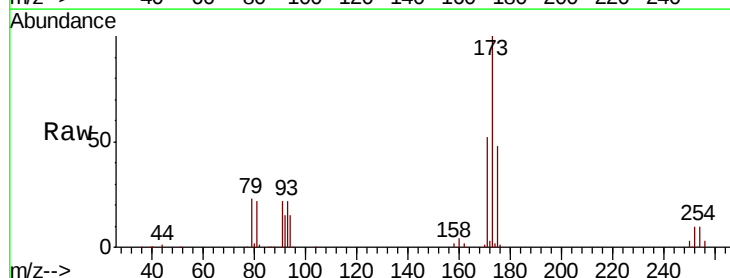
Tgt Ion: 173 Resp: 98713

Ion Ratio Lower Upper

173 100

175 48.9 39.5 59.3

254 9.5 7.5 11.3



Abundance Ion 173.00 (172.70 to 173.70): VU033583.D (-2740) (-)

Ion 175.00 (174.70 to 175.70): VU033583.D (-2740) (-)

Ion 254.00 (253.70 to 254.70): VU033583.D (-2740) (-)

9.94

80000

60000

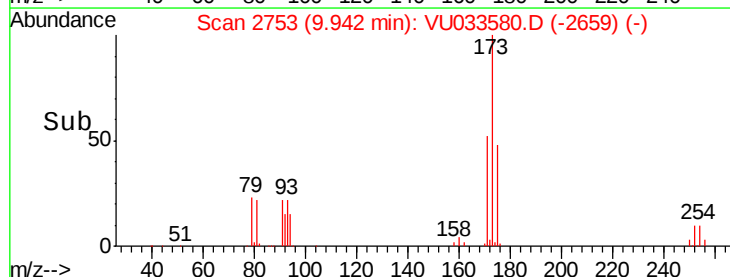
40000

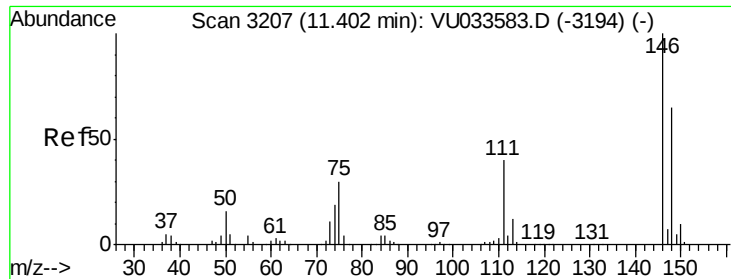
20000

0

Time-->

9.90 10.00





#62

1,3-Dichlorobenzene

Concen: 52.918 ug/L

RT: 11.40 min Scan# 3207

Delta R.T. -0.00 min

Lab File: VU033580.D

Acq: 03 Aug 2019 10:05

Instrument :

MSVOA_U

ClientSampleId :

VSTD05048

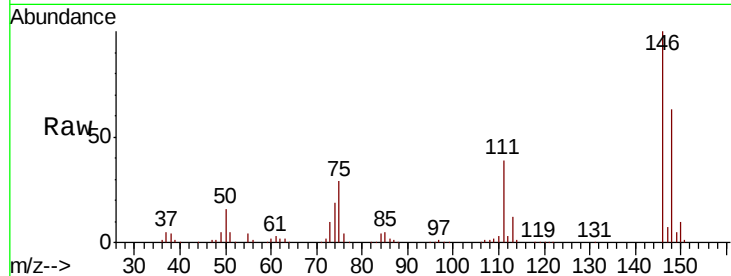
Tgt Ion:146 Resp: 251836

Ion Ratio Lower Upper

146 100

111 38.8 27.7 51.5

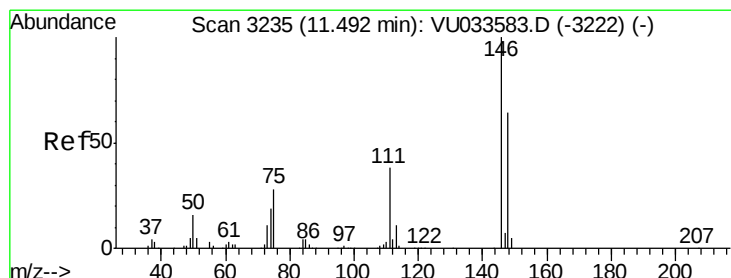
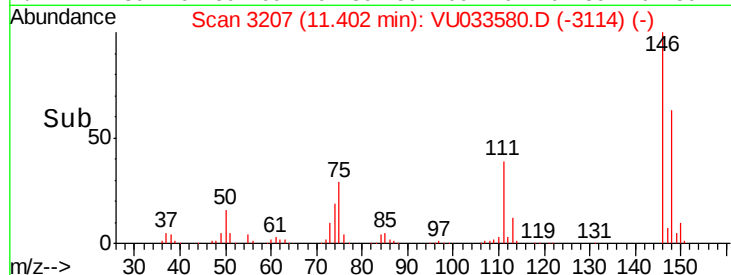
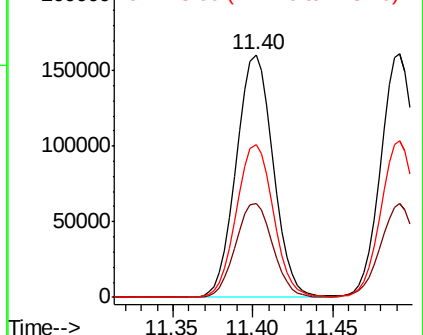
148 63.3 45.2 84.0



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: 50.974 ug/L

RT: 11.49 min Scan# 3235

Delta R.T. -0.00 min

Lab File: VU033580.D

Acq: 03 Aug 2019 10:05

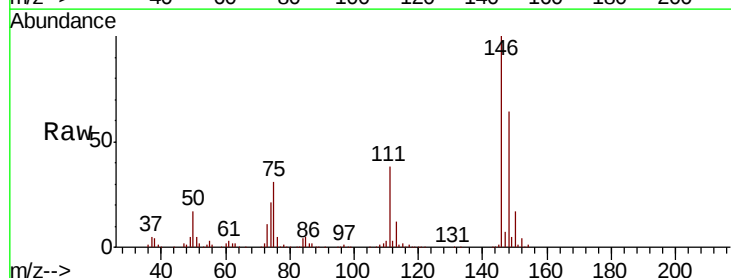
Tgt Ion:146 Resp: 252426

Ion Ratio Lower Upper

146 100

111 38.4 26.8 49.8

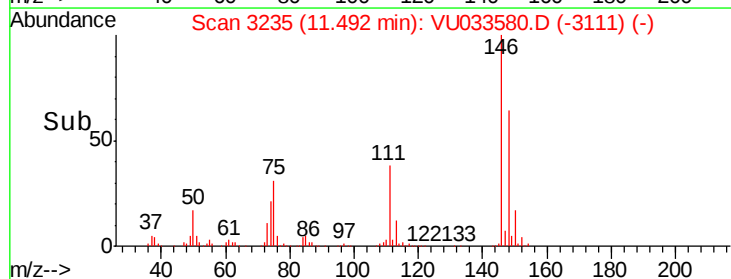
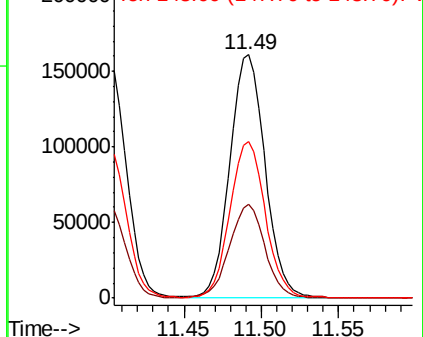
148 64.5 45.0 83.6

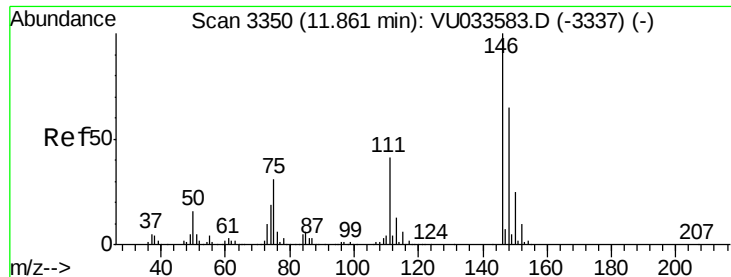


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V





#65

1,2-Dichlorobenzene

Concen: 51.850 ug/L

RT: 11.86 min Scan# 3351

Delta R.T. 0.00 min

Lab File: VU033580.D

Acq: 03 Aug 2019 10:05

Instrument :

MSVOA_U

ClientSampleId :

VSTD05048

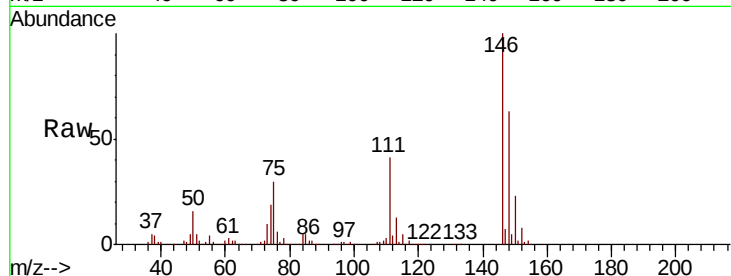
Tgt Ion:146 Resp: 249548

Ion Ratio Lower Upper

146 100

111 41.4 33.1 49.7

148 62.9 52.1 78.1



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

11.86

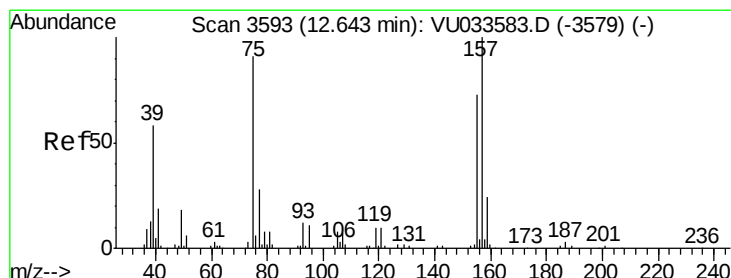
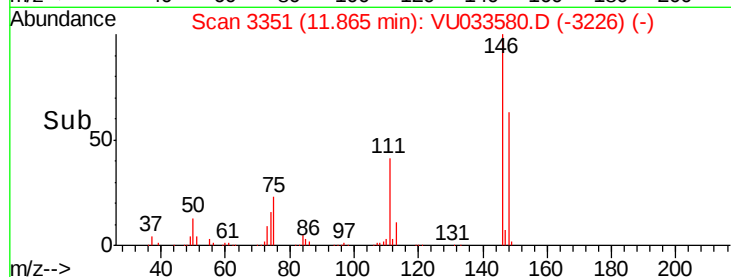
150000

100000

50000

0

Time-->



#66

1,2-Dibromo-3-chloropropane

Concen: 52.884 ug/L

RT: 12.64 min Scan# 3593

Delta R.T. -0.00 min

Lab File: VU033580.D

Acq: 03 Aug 2019 10:05

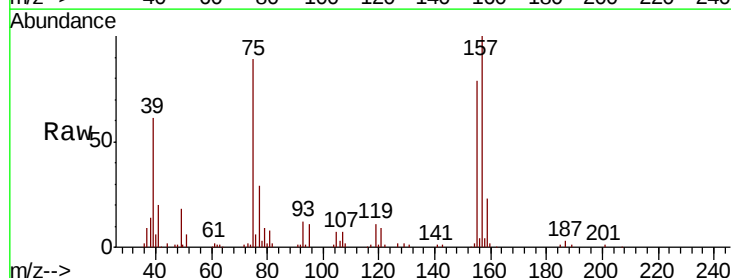
Tgt Ion: 75 Resp: 47731

Ion Ratio Lower Upper

75 100

155 88.7 64.3 96.5

157 111.8 88.0 132.0



Abundance Ion 75.00 (74.70 to 75.70): VU0

Ion 155.00 (154.70 to 155.70): V

Ion 157.00 (156.70 to 157.70): V

12.64

40000

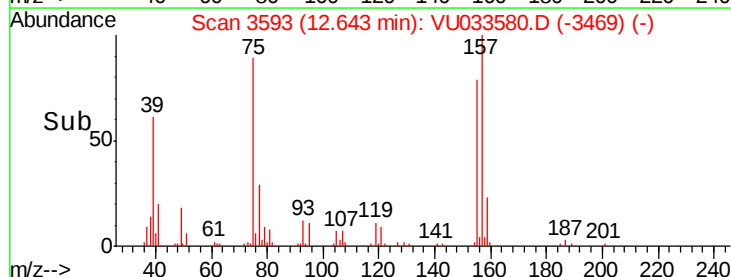
30000

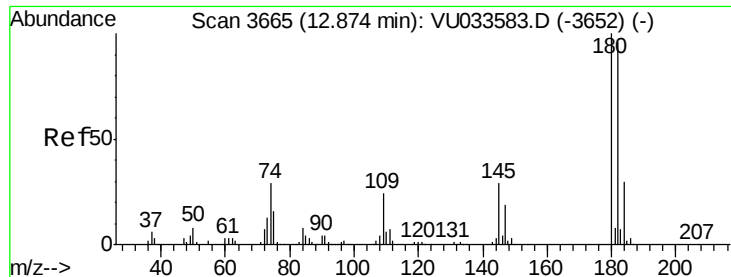
20000

10000

0

Time-->

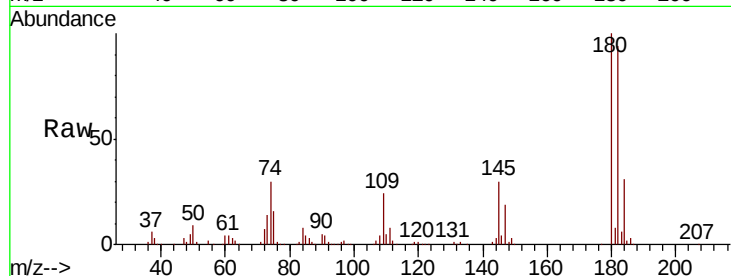




#67
 1,3,5-Trichlorobenzene
 Concen: 50.374 ug/L
 RT: 12.87 min Scan# 3665
 Delta R.T. -0.00 min
 Lab File: VU033580.D
 Acq: 03 Aug 2019 10:05

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05048

Tgt Ion:	180	Resp:	192512
Ion	Ratio	Lower	Upper
180	100		
182	94.6	76.8	115.2
184	30.2	23.9	35.9
145	29.7	23.3	34.9



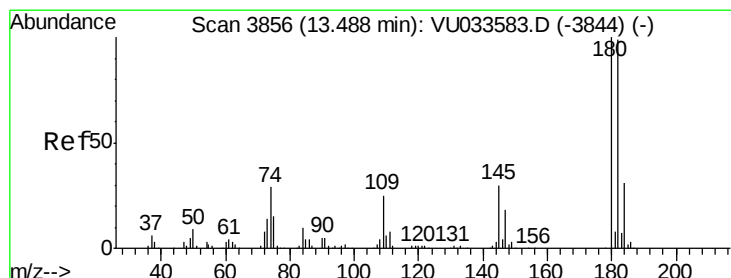
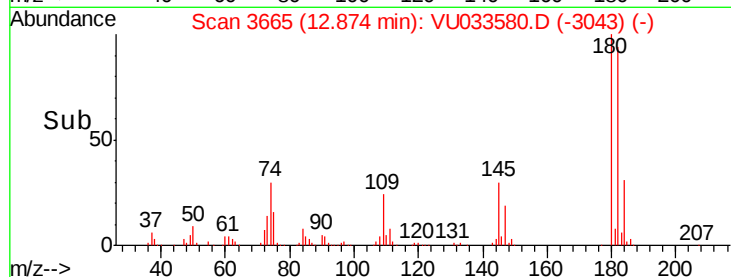
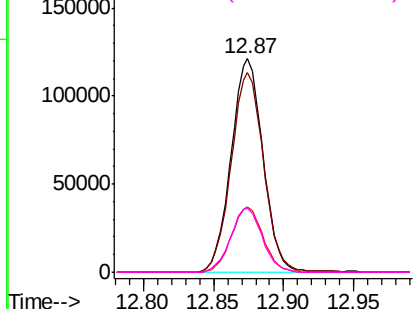
Abundance

Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

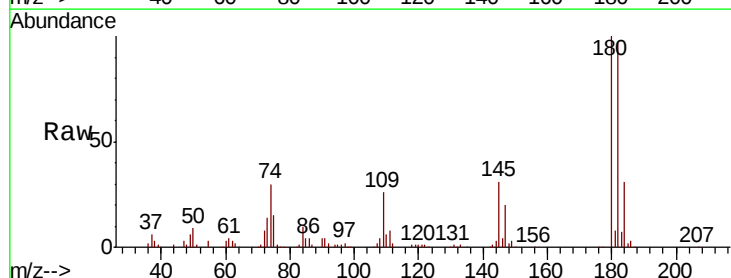
Ion 184.00 (183.70 to 184.70): V

Ion 145.00 (144.70 to 145.70): V



#68
 1,2,4-trichlorobenzene
 Concen: 51.022 ug/L
 RT: 13.49 min Scan# 3856
 Delta R.T. -0.00 min
 Lab File: VU033580.D
 Acq: 03 Aug 2019 10:05

Tgt Ion:	180	Resp:	166256
Ion	Ratio	Lower	Upper
180	100		
182	95.4	77.2	115.8
145	29.7	23.6	35.4

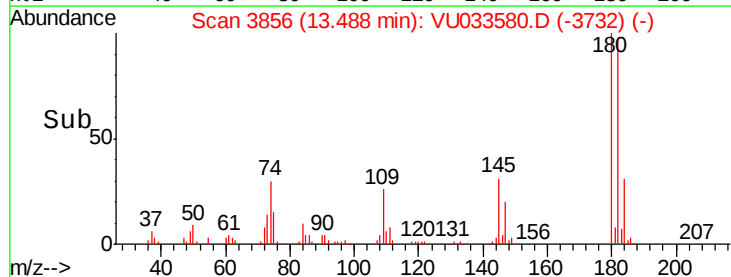
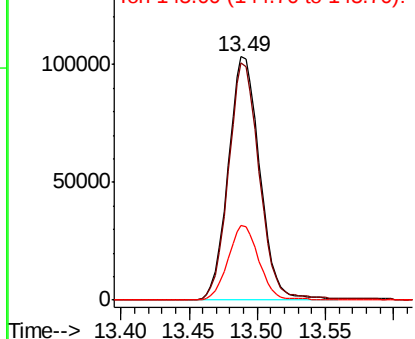


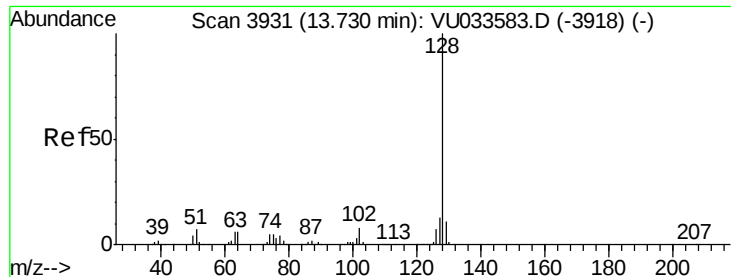
Abundance

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: 52.063 ug/L

RT: 13.73 min Scan# 3931

Delta R.T. -0.00 min

Lab File: VU033580.D

Acq: 03 Aug 2019 10:05

Instrument :

MSVOA_U

ClientSampleId :

VSTD05048

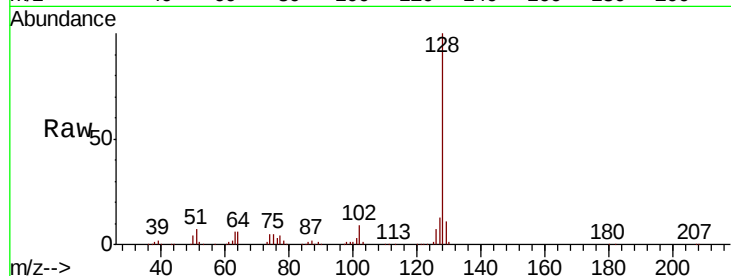
Tgt Ion:128 Resp: 487744

Ion Ratio Lower Upper

128 100

127 13.4 10.6 16.0

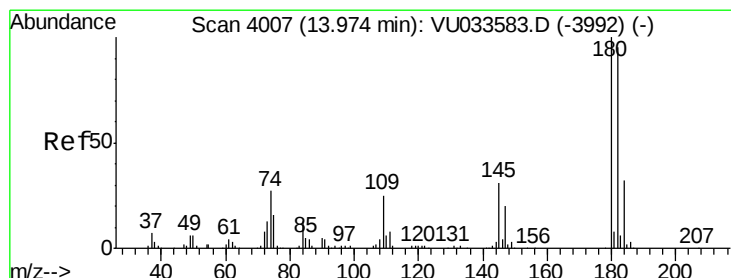
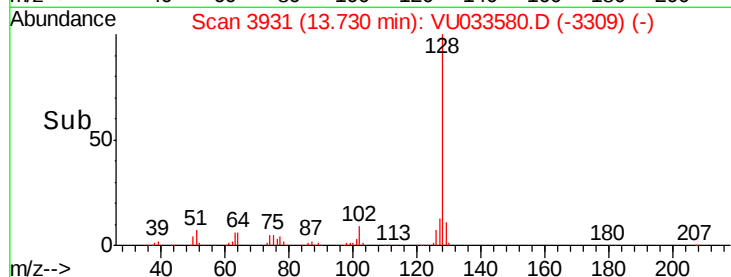
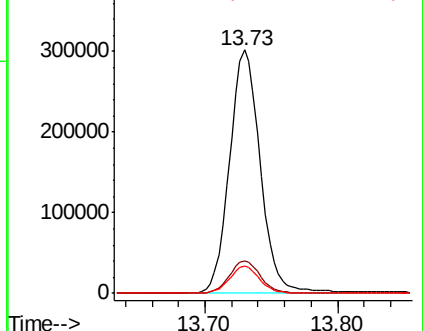
129 11.0 8.9 13.3



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: 50.930 ug/L

RT: 13.97 min Scan# 4007

Delta R.T. -0.00 min

Lab File: VU033580.D

Acq: 03 Aug 2019 10:05

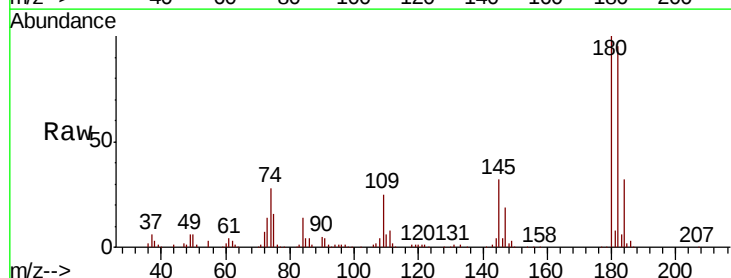
Tgt Ion:180 Resp: 174465

Ion Ratio Lower Upper

180 100

182 95.5 76.5 114.7

145 32.3 24.7 37.1



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

