

Data File : VU034604.D
Acq On : 17 Sep 2019 10:06
Operator : JC/SP
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
VSTD05056

Quant Time: Sep 18 04:23:25 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM091619WMA.M
Quant Title : VOC Analysis
QLast Update : Tue Sep 17 05:01:24 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.86	114	266195	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.07	117	252804	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.46	152	117667	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.39	65	53177	41.41	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	82.82%
7) Chloroethane-d5	1.67	69	44995	45.55	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	91.10%
11) 1,1-Dichloroethene-d2	2.26	63	116516	44.34	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	88.68%
21) 2-Butanone-d5	4.15	46	141827	97.94	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	97.94%
24) Chloroform-d	4.62	84	131922	45.24	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	90.48%
26) 1,2-Dichloroethane-d4	5.28	65	84619	47.56	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	95.12%
32) Benzene-d6	5.31	84	246507	44.35	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	88.70%
36) 1,2-Dichloropropane-d6	6.31	67	92663	44.78	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	89.56%
41) Toluene-d8	7.54	98	238054	44.11	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	88.22%
43) trans-1,3-Dichloropropene-	7.83	79	44778	45.36	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	90.72%
47) 2-Hexanone-d5	8.29	63	102622	91.42	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	91.42%
57) 1,1,2,2-Tetrachloroethane-	10.41	84	143563	44.40	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	88.80%
64) 1,2-Dichlorobenzene-d4	11.84	152	92051	43.85	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	87.70%

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	1.20	85	76912	46.896	ug/L 98
3) Chloromethane	1.32	50	75254	44.960	ug/L 99
5) Vinyl chloride	1.40	62	75004	45.644	ug/L 98
6) Bromomethane	1.62	94	34872	40.595	ug/L 97
8) Chloroethane	1.69	64	46967	49.882	ug/L 96
9) Trichlorofluoromethane	1.87	101	107217	46.109	ug/L 98
10) 1,1,2-Trichloro-1,2,2-trif	2.27	101	62736	45.279	ug/L 96
12) 1,1-Dichloroethene	2.27	96	53083	41.956	ug/L 88
13) Acetone	2.31	43	155055	119.144	ug/L 99
14) Carbon disulfide	2.46	76	137003	44.110	ug/L 100
15) Methyl Acetate	2.60	43	101163	47.494	ug/L 95
16) Methylene chloride	2.68	84	74136	44.337	ug/L 98
17) trans-1,2-Dichloroethene	2.96	96	60977	45.033	ug/L 98
18) Methyl tert-butyl Ether	2.98	73	252048	44.960	ug/L 100
19) 1,1-Dichloroethane	3.42	63	140991	46.250	ug/L 98
20) cis-1,2-Dichloroethene	4.20	96	76991	43.905	ug/L 96
22) 2-Butanone	4.23	43	178709	107.943	ug/L 98

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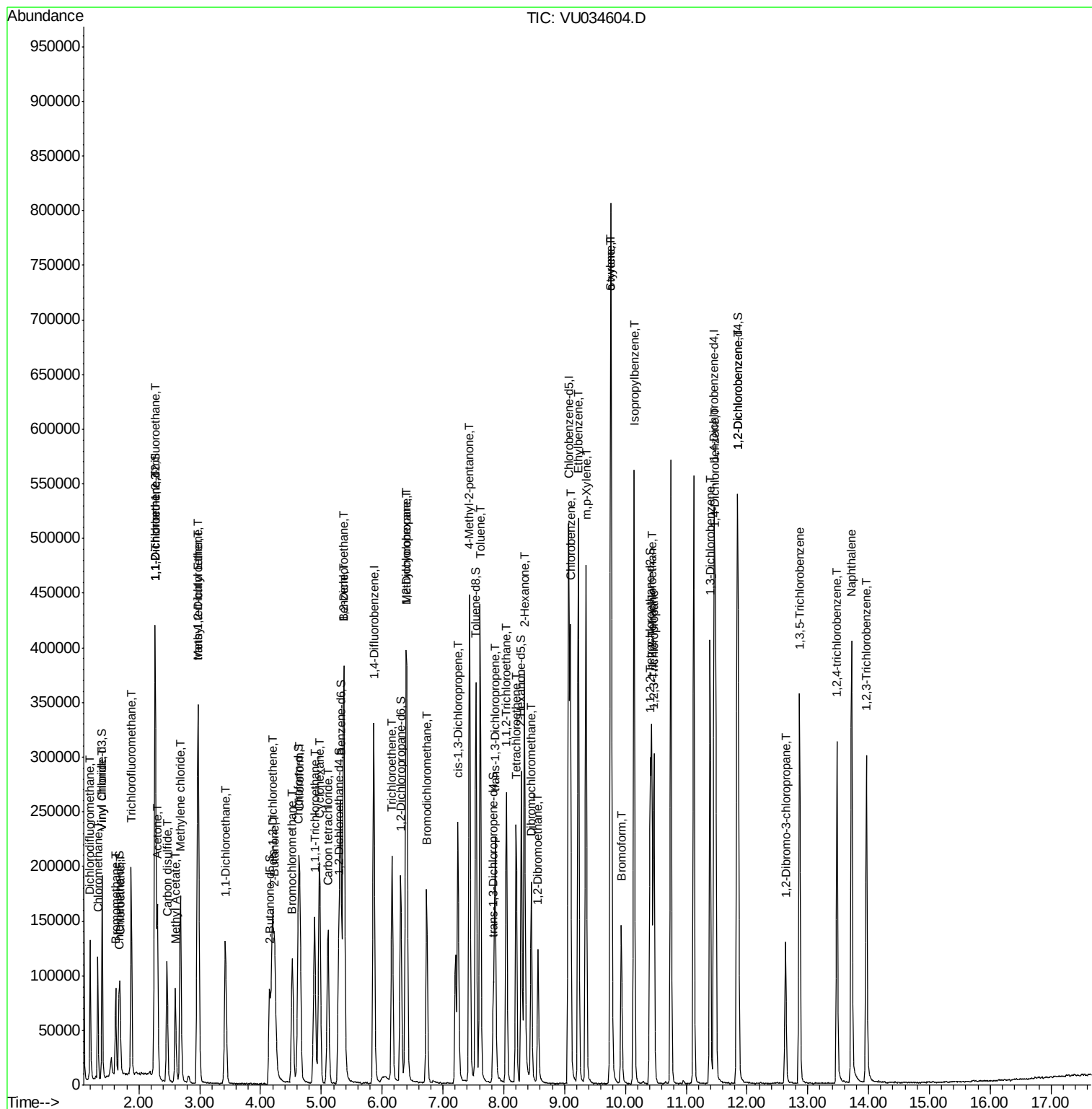
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	4.52	128	35608	43.010	ug/L	94
25) Chloroform	4.65	83	150173	47.106	ug/L	99
27) 1,2-Dichloroethane	5.38	62	109124	48.343	ug/L	96
29) Cyclohexane	4.97	56	111366	45.188	ug/L	100
30) 1,1,1-Trichloroethane	4.89	97	113991	45.124	ug/L	98
31) Carbon tetrachloride	5.11	117	97303	45.625	ug/L	100
33) Benzene	5.36	78	292550	45.621	ug/L	100
34) Trichloroethene	6.16	95	72163	45.175	ug/L	96
35) Methylcyclohexane	6.39	83	111909	46.211	ug/L	99
37) 1,2-Dichloropropane	6.41	63	89986	46.234	ug/L	99
38) Bromodichloromethane	6.73	83	113664	44.673	ug/L	100
39) cis-1,3-Dichloropropene	7.25	75	138794	47.465	ug/L	100
40) 4-Methyl-2-pentanone	7.44	43	314253	92.821	ug/L	99
42) Toluene	7.61	91	316325	45.750	ug/L	100
44) trans-1,3-Dichloropropene	7.86	75	124431	46.406	ug/L	95
45) 1,1,2-Trichloroethane	8.04	97	81309	45.778	ug/L	98
46) Tetrachloroethene	8.21	164	45341	42.761	ug/L	99
48) 2-Hexanone	8.34	43	245112	96.370	ug/L	98
49) Dibromochloromethane	8.45	129	86995	43.247	ug/L	98
50) 1,2-Dibromoethane	8.57	107	80903	43.579	ug/L #	99
51) Chlorobenzene	9.10	112	201947	44.707	ug/L	99
52) Ethylbenzene	9.23	91	364105	45.515	ug/L	98
53) m,p-Xylene	9.35	106	128971	44.843	ug/L	95
54) o-xylene	9.76	106	132714	45.483	ug/L	94
55) Styrene	9.77	104	226651	45.129	ug/L	95
56) Isopropylbenzene	10.14	105	352523	44.919	ug/L	99
58) 1,1,2,2-Tetrachloroethane	10.43	83	155975	44.159	ug/L	99
59) 1,2,3-Trichloropropane	10.47	75	120408	45.292	ug/L	99
61) Bromoform	9.94	173	59537	41.089	ug/L	98
62) 1,3-Dichlorobenzene	11.39	146	146937	43.184	ug/L	97
63) 1,4-Dichlorobenzene	11.49	146	148697	43.279	ug/L	98
65) 1,2-Dichlorobenzene	11.85	146	152914	44.553	ug/L	98
66) 1,2-Dibromo-3-chloropropan	12.64	75	35875	46.136	ug/L	89
67) 1,3,5-Trichlorobenzene	12.86	180	94770	42.734	ug/L	98
68) 1,2,4-trichlorobenzene	13.48	180	81359	42.945	ug/L	98
69) Naphthalene	13.72	128	314510	44.934	ug/L	99
70) 1,2,3-Trichlorobenzene	13.97	180	82484	42.529	ug/L	98

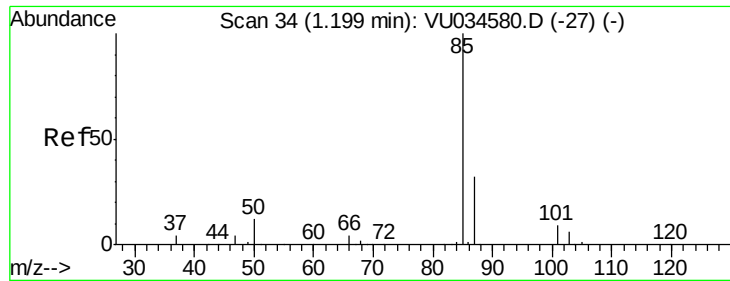
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#2

Dichlorodifluoromethane

Concen: 46.896 ug/L

RT: 1.20 min Scan# 34

Delta R.T. -0.00 min

Lab File: VU034604.D

Acq: 17 Sep 2019 10:06

Instrument :

MSVOA_U

ClientSampleId :

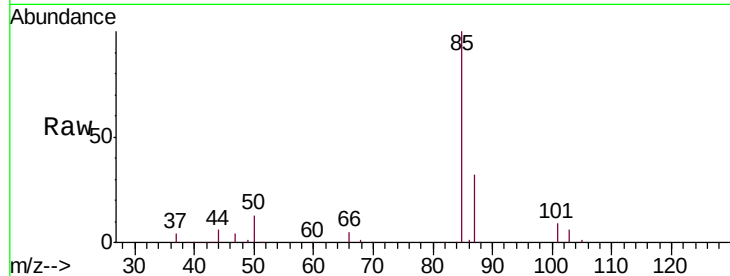
VSTD05056

Tgt Ion: 85 Resp: 76912

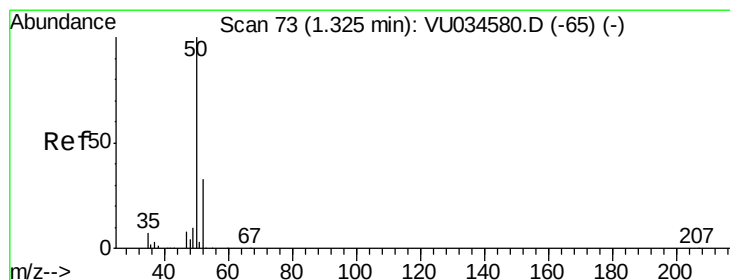
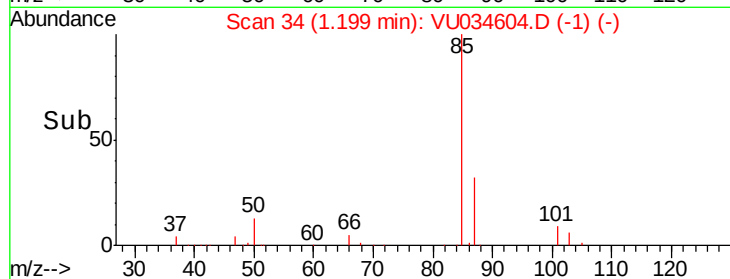
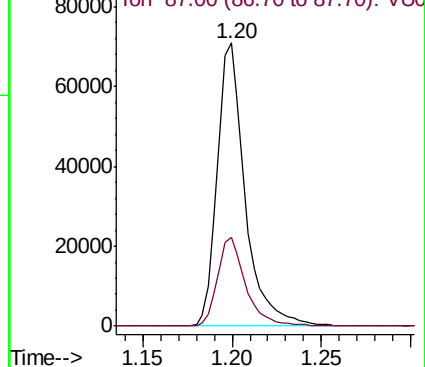
Ion Ratio Lower Upper

85 100

87 31.8 26.1 39.1



Abundance Ion 85.00 (84.70 to 85.70): VU034604.D (-1) (-)



#3

Chloromethane

Concen: 44.960 ug/L

RT: 1.32 min Scan# 73

Delta R.T. -0.00 min

Lab File: VU034604.D

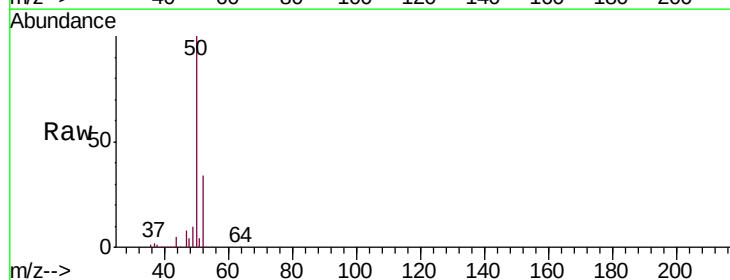
Acq: 17 Sep 2019 10:06

Tgt Ion: 50 Resp: 75254

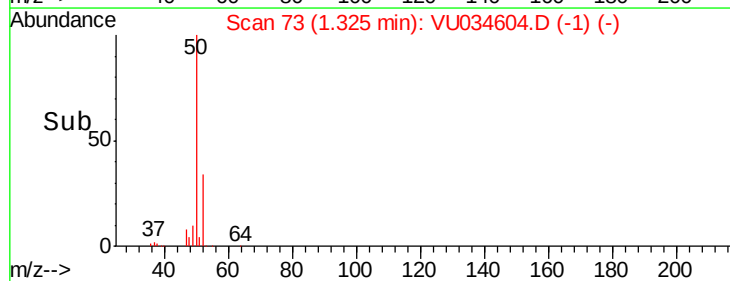
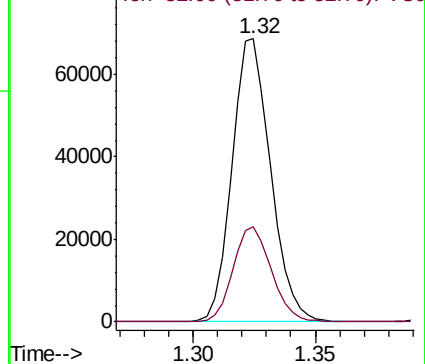
Ion Ratio Lower Upper

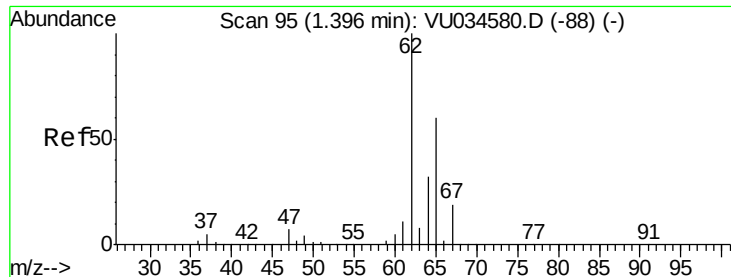
50 100

52 33.7 23.2 43.0



Abundance Ion 50.00 (49.70 to 50.70): VU034604.D (-1) (-)





#5

Vinyl chloride

Concen: 45.644 ug/L

RT: 1.40 min Scan# 95

Delta R.T. -0.00 min

Lab File: VU034604.D

Acq: 17 Sep 2019 10:06

Instrument :

MSVOA_U

ClientSampleId :

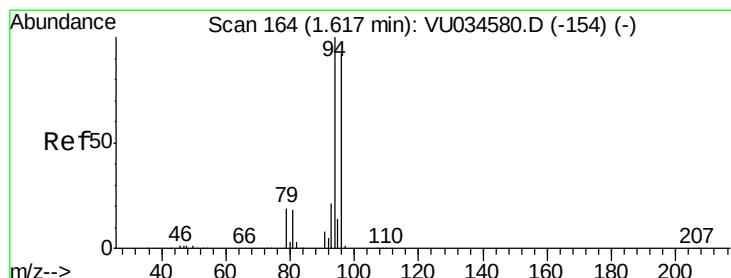
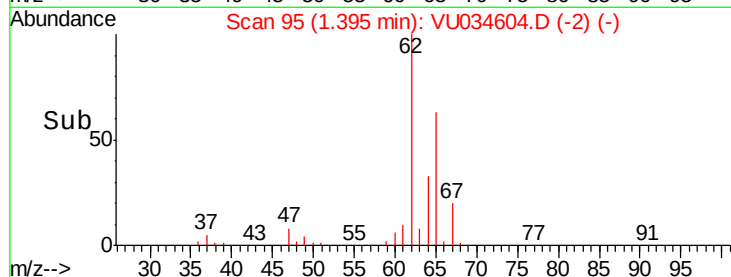
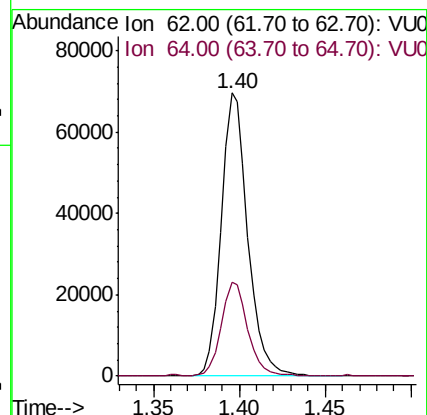
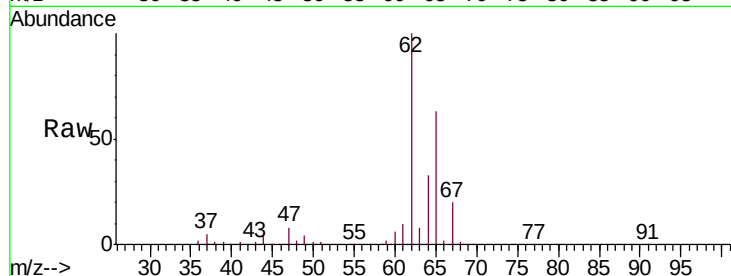
VSTD05056

Tgt Ion: 62 Resp: 75004

Ion Ratio Lower Upper

62 100

64 33.2 24.1 44.7



#6

Bromomethane

Concen: 40.595 ug/L

RT: 1.62 min Scan# 164

Delta R.T. -0.00 min

Lab File: VU034604.D

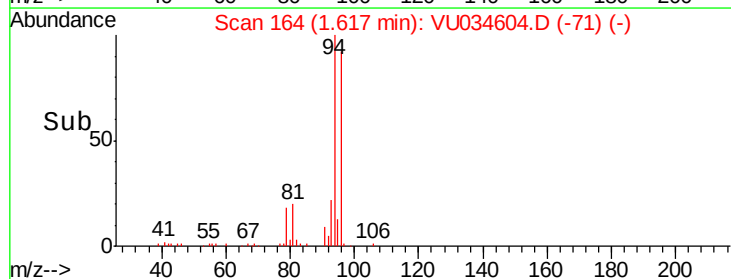
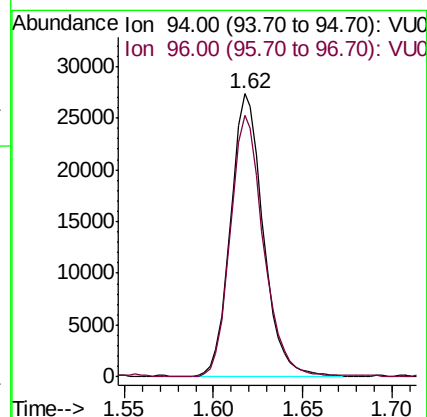
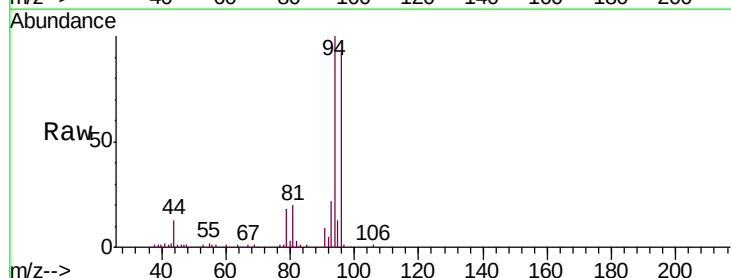
Acq: 17 Sep 2019 10:06

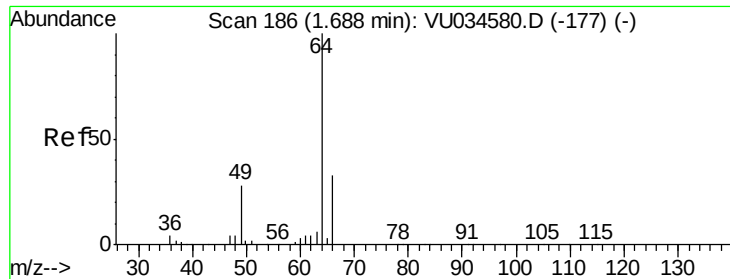
Tgt Ion: 94 Resp: 34872

Ion Ratio Lower Upper

94 100

96 92.5 62.9 116.9

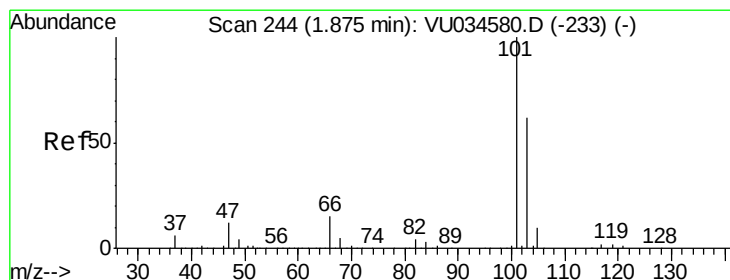
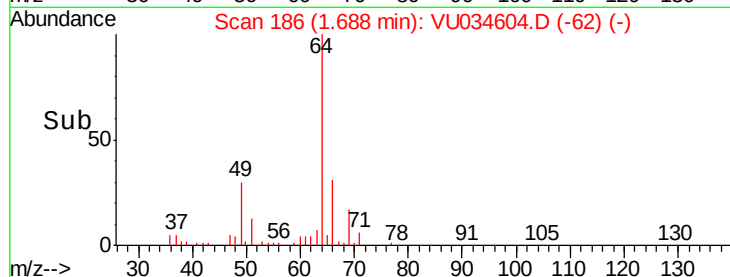
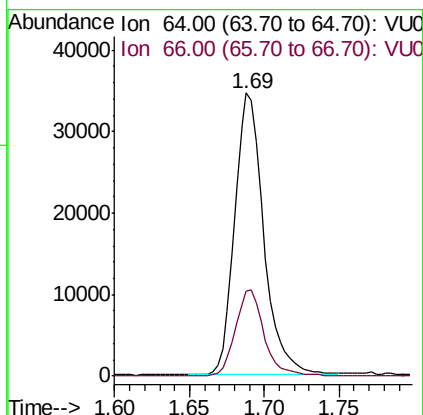
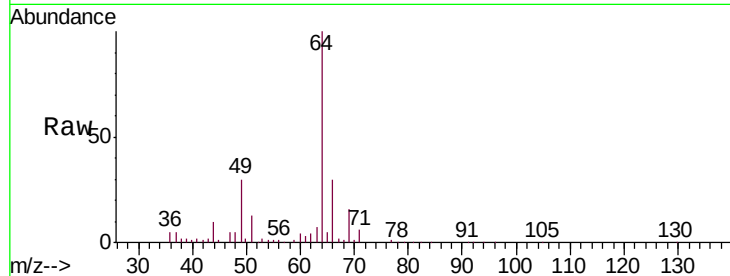




#8
Chloroethane
Concen: 49.882 ug/L
RT: 1.69 min Scan# 186
Delta R.T. -0.00 min
Lab File: VU034604.D
Acq: 17 Sep 2019 10:06

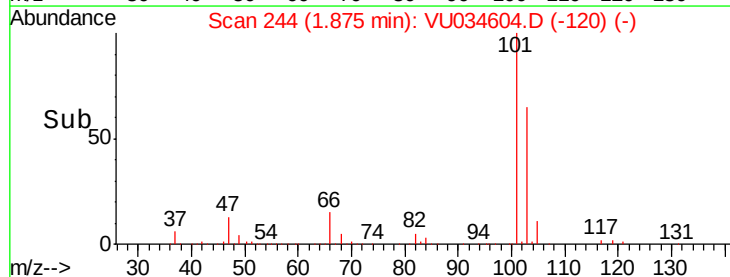
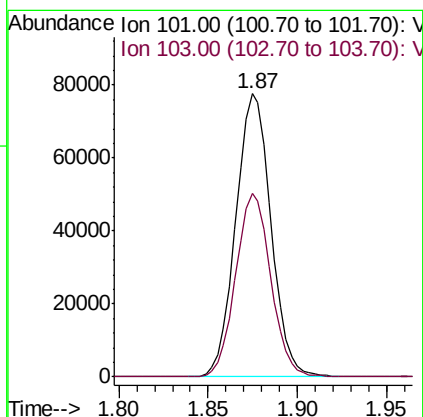
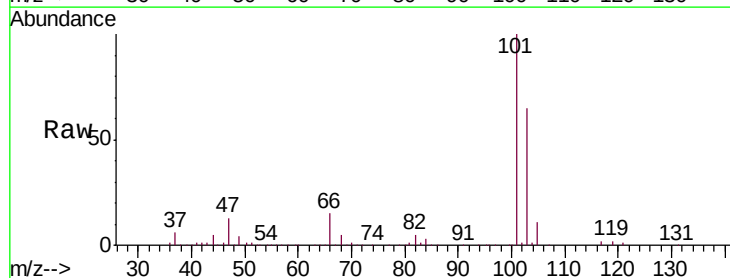
Instrument :
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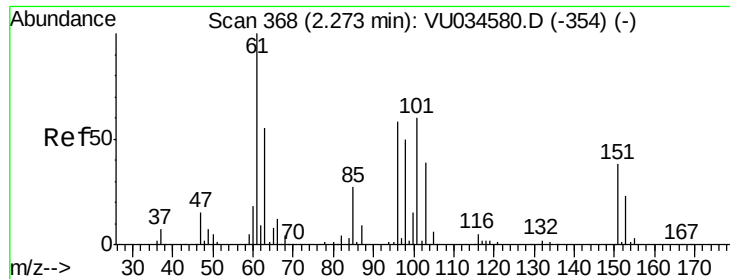
Tgt Ion: 64 Resp: 46967
Ion Ratio Lower Upper
64 100
66 30.1 22.7 42.1



#9
Trichlorofluoromethane
Concen: 46.109 ug/L
RT: 1.87 min Scan# 244
Delta R.T. -0.00 min
Lab File: VU034604.D
Acq: 17 Sep 2019 10:06

Tgt Ion: 101 Resp: 107217
Ion Ratio Lower Upper
101 100
103 64.7 50.7 76.1





#10

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

Concen: 45.279 ug/L

RT: 2.27 min Scan# 368

Delta R.T. -0.00 min

Lab File: VU034604.D

Acq: 17 Sep 2019 10:06

Instrument :

MSVOA_U

ClientSampleId :

VSTD05056

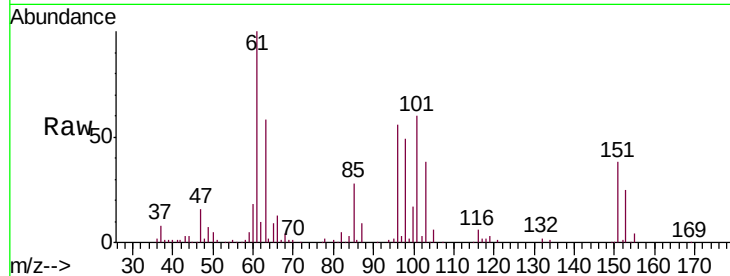
Tgt Ion:101 Resp: 62736

Ion Ratio Lower Upper

101 100

85 47.0 37.0 55.6

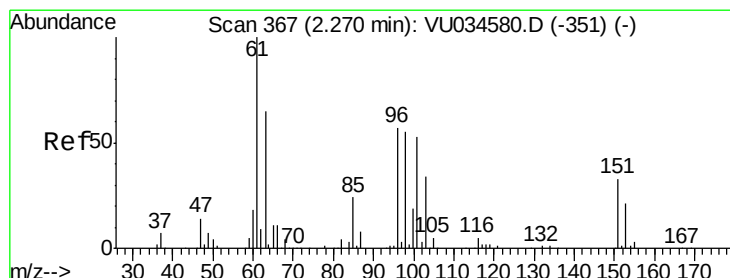
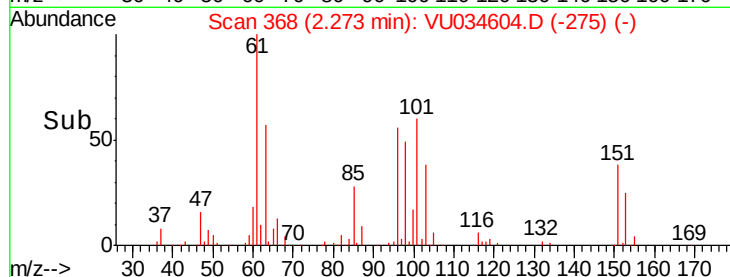
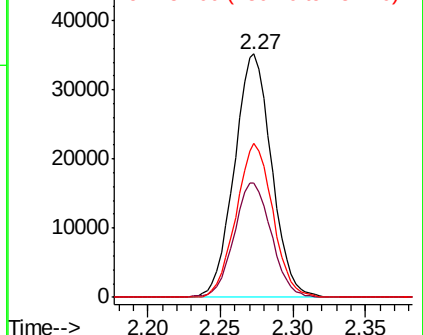
151 62.3 54.1 81.1



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: 41.956 ug/L

RT: 2.27 min Scan# 367

Delta R.T. -0.00 min

Lab File: VU034604.D

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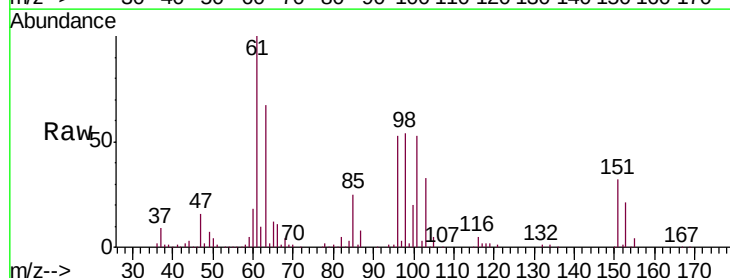
Tgt Ion: 96 Resp: 53083

Ion Ratio Lower Upper

96 100

61 189.8 117.8 218.8

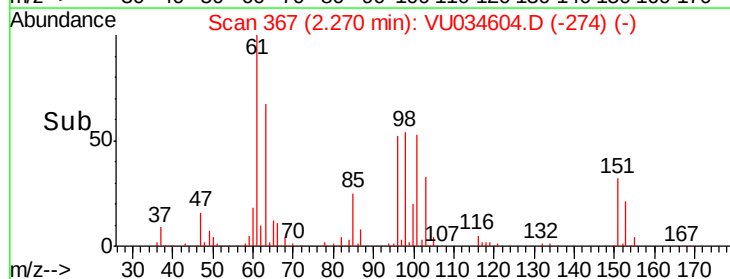
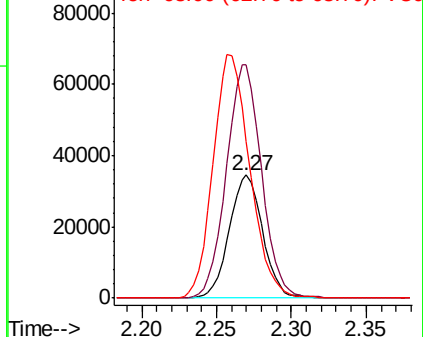
63 127.7 83.8 155.6

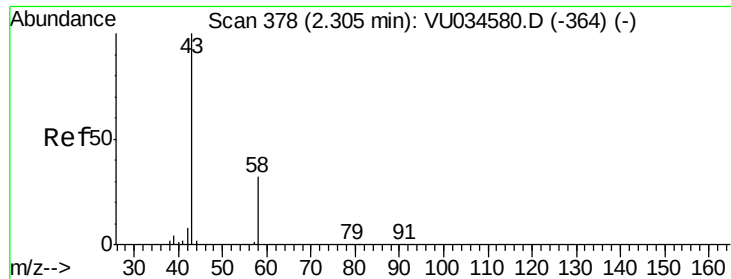


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 119.144 ug/L

RT: 2.31 min Scan# 378

Delta R.T. -0.00 min

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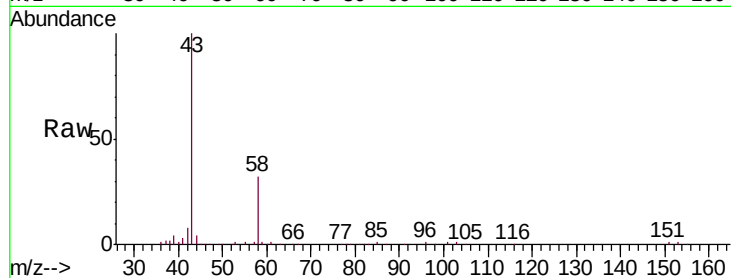
VSTD05056

Tgt Ion: 43 Resp: 155055

Ion Ratio Lower Upper

43 100

58 32.2 0.0 65.0



Abundance Ion 43.00 (42.70 to 43.70): VU034580.D (-364) (-)

Ion 58.00 (57.70 to 58.70): VU034580.D (-364) (-)

2.31

100000

80000

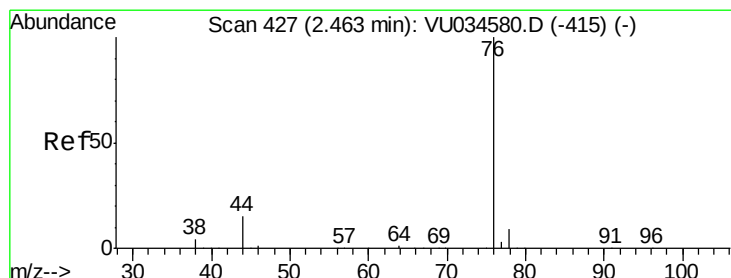
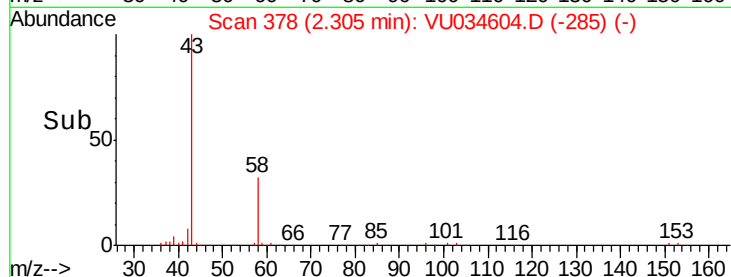
60000

40000

20000

0

Time-->



#14

Carbon disulfide

Concen: 44.110 ug/L

RT: 2.46 min Scan# 427

Delta R.T. -0.00 min

Lab File: VU034604.D

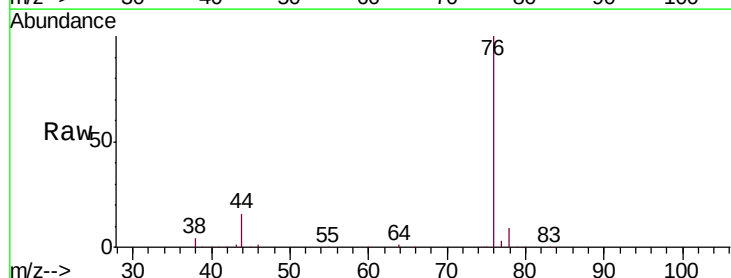
Acq: 17 Sep 2019 10:06

Tgt Ion: 76 Resp: 137003

Ion Ratio Lower Upper

76 100

78 8.9 7.1 10.7



Abundance Ion 76.00 (75.70 to 76.70): VU034580.D (-415) (-)

Ion 78.00 (77.70 to 78.70): VU034580.D (-415) (-)

2.46

80000

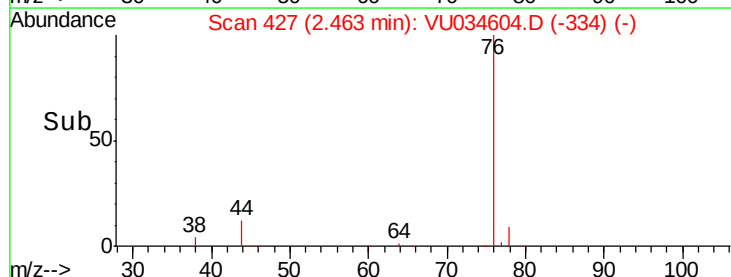
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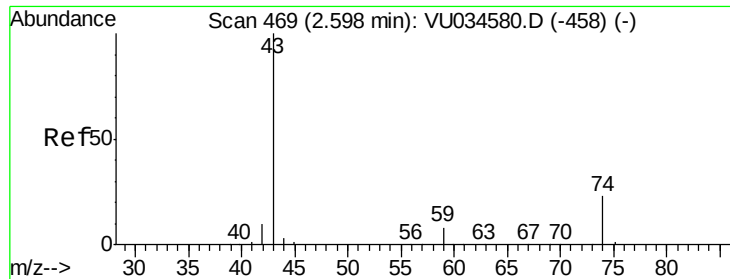
40000

20000

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Time-->

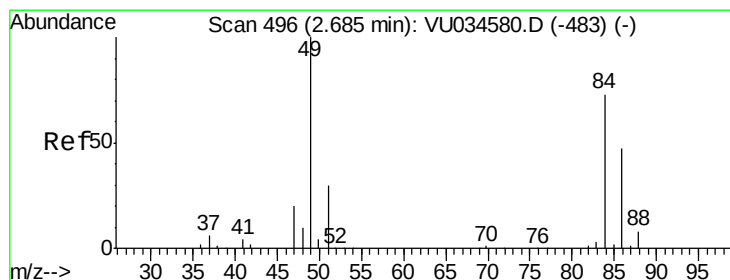
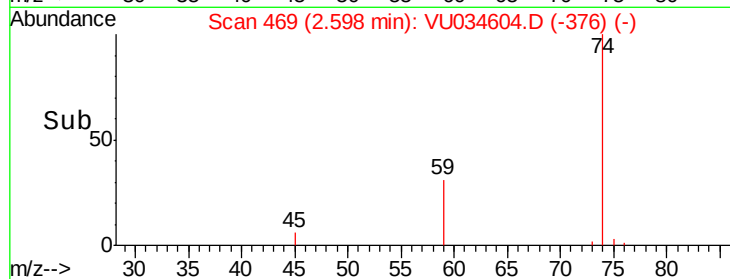
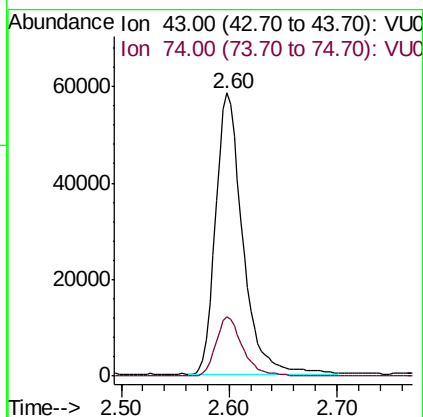
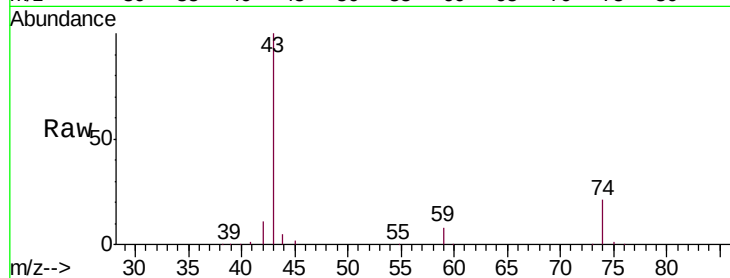




#15
Methyl Acetate
Concen: 47.494 ug/L
RT: 2.60 min Scan# 469
Delta R.T. -0.00 min
Lab File: VU034604.D
Acq: 17 Sep 2019 10:06

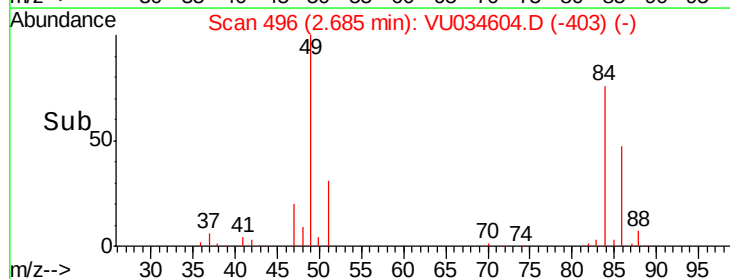
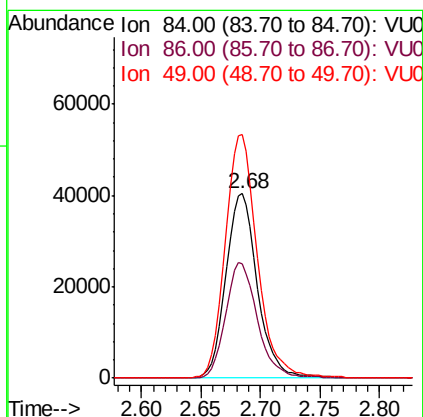
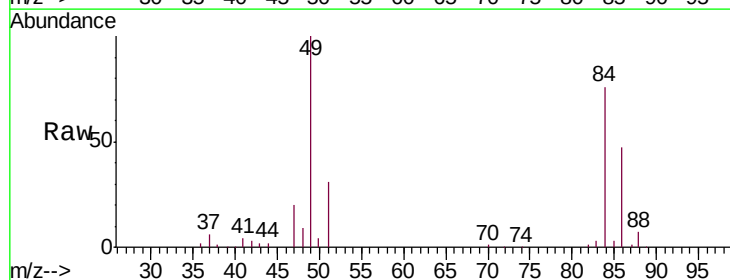
Instrument :
MSVOA_U
ClientSampleId :
VSTD05056

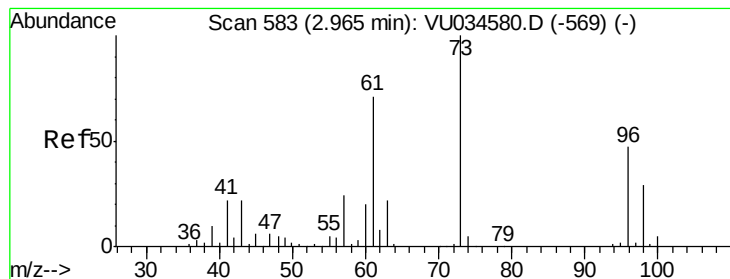
Tgt Ion: 43 Resp: 101163
Ion Ratio Lower Upper
43 100
74 21.0 18.6 28.0



#16
Methylene chloride
Concen: 44.337 ug/L
RT: 2.68 min Scan# 496
Delta R.T. -0.00 min
Lab File: VU034604.D
Acq: 17 Sep 2019 10:06

Tgt Ion: 84 Resp: 74136
Ion Ratio Lower Upper
84 100
86 61.9 45.4 84.4
49 132.2 93.1 172.9





#17

trans-1,2-Dichloroethene

Concen: 45.033 ug/L

RT: 2.96 min Scan# 583

Delta R.T. -0.00 min

Lab File: VU034604.D

Acq: 17 Sep 2019 10:06

Instrument :

MSVOA_U

ClientSampleId :

VSTD05056

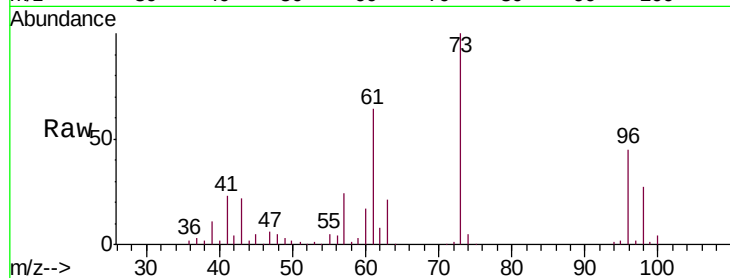
Tgt Ion: 96 Resp: 60977

Ion Ratio Lower Upper

96 100

61 140.9 97.0 180.2

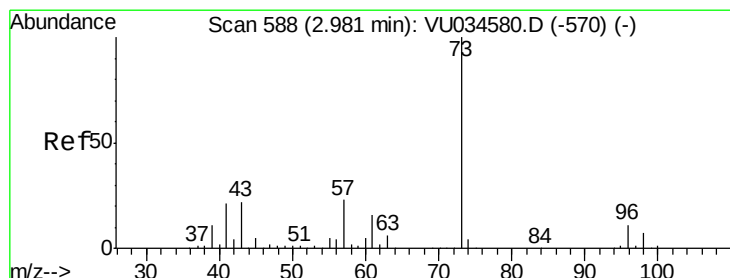
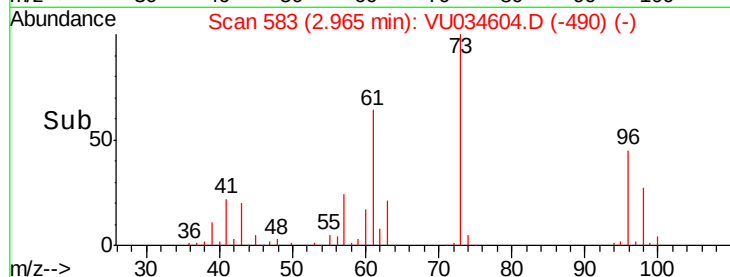
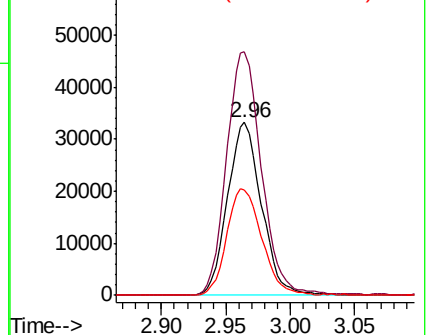
98 60.7 44.1 81.9



Abundance Ion 96.00 (95.70 to 96.70): VU034580.D (-569) (-)

Ion 61.00 (60.70 to 61.70): VU034580.D (-569) (-)

Ion 98.00 (97.70 to 98.70): VU034580.D (-569) (-)



#18

Methyl tert-butyl Ether

Concen: 44.960 ug/L

RT: 2.98 min Scan# 587

Delta R.T. -0.00 min

Lab File: VU034604.D

Acq: 17 Sep 2019 10:06

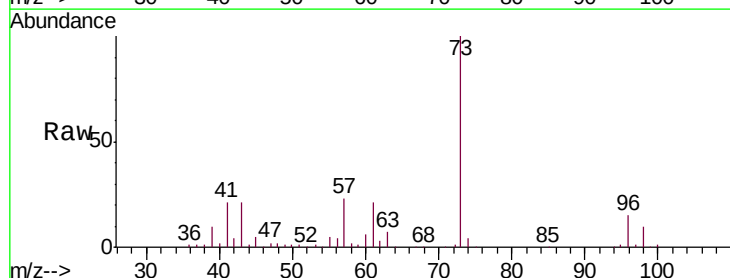
Tgt Ion: 73 Resp: 252048

Ion Ratio Lower Upper

73 100

43 21.1 16.7 25.1

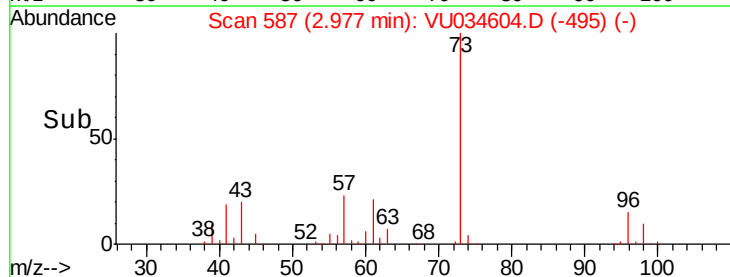
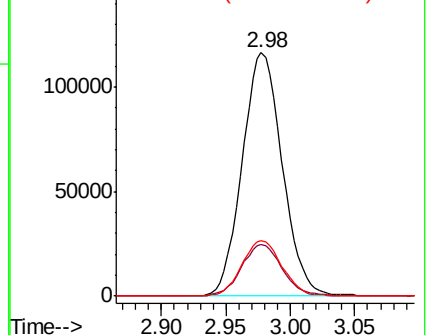
57 23.2 18.6 28.0

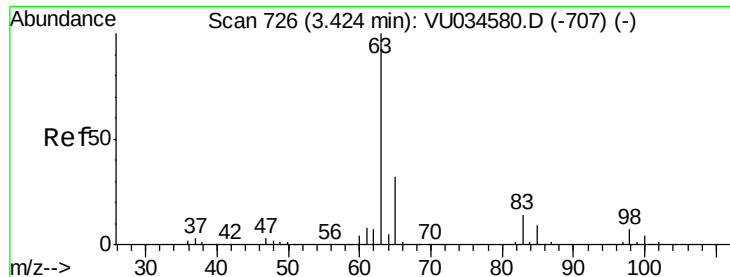


Abundance Ion 73.00 (72.70 to 73.70): VU034580.D (-570) (-)

Ion 43.00 (42.70 to 43.70): VU034580.D (-570) (-)

Ion 57.00 (56.70 to 57.70): VU034580.D (-570) (-)

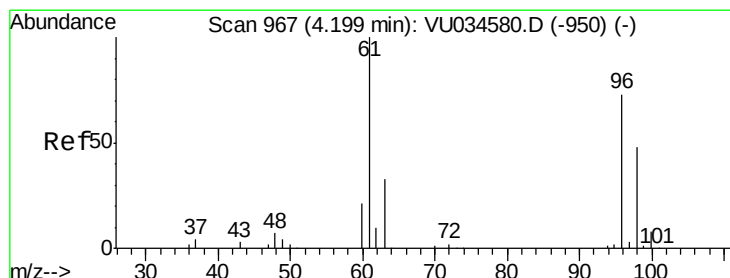
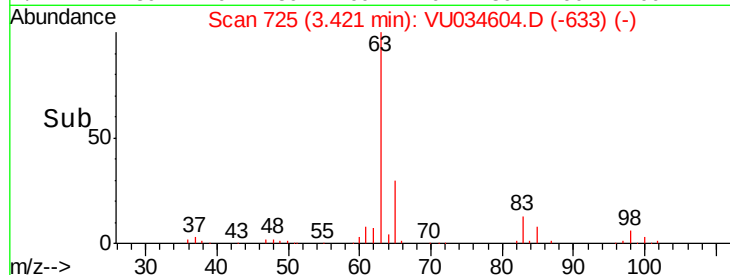
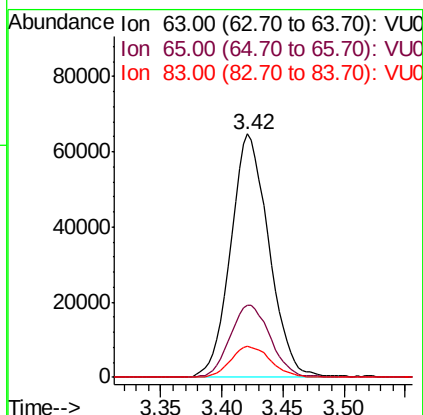
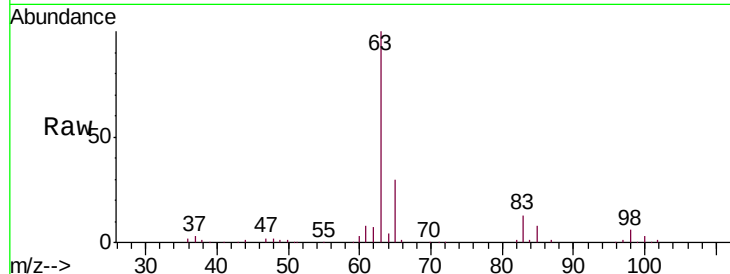




#19
 1,1-Dichloroethane
 Concen: 46.250 ug/L
 RT: 3.42 min Scan# 725
 Delta R.T. -0.00 min
 Lab File: VU034604.D
 Acq: 17 Sep 2019 10:06

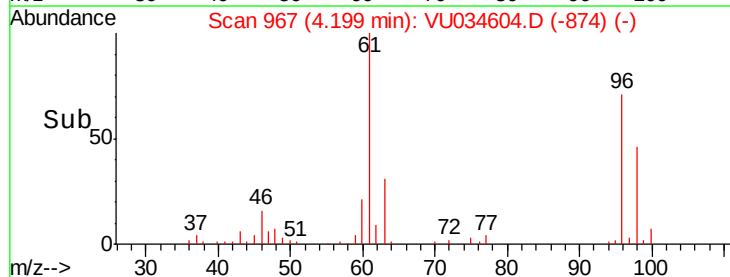
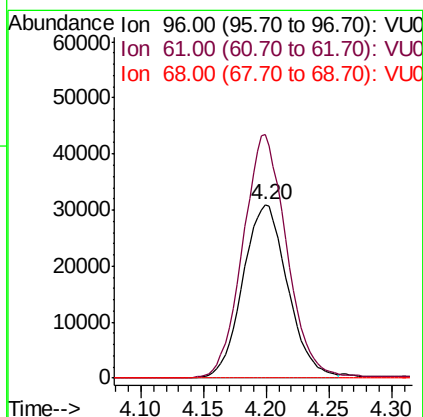
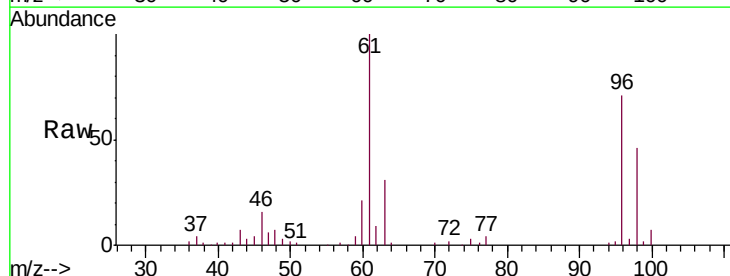
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05056

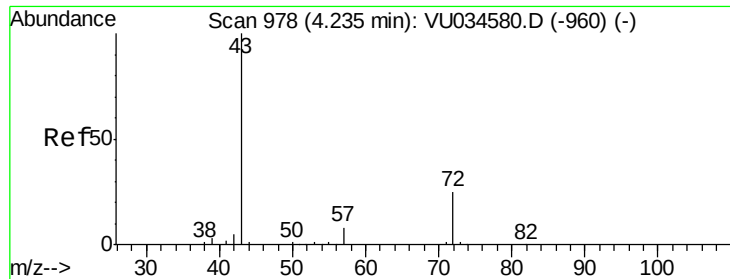
Tgt Ion: 63 Resp: 140991
 Ion Ratio Lower Upper
 63 100
 65 29.8 21.6 40.0
 83 12.7 9.7 17.9



#20
 cis-1,2-Dichloroethene
 Concen: 43.905 ug/L
 RT: 4.20 min Scan# 967
 Delta R.T. -0.00 min
 Lab File: VU034604.D
 Acq: 17 Sep 2019 10:06

Tgt Ion: 96 Resp: 76991
 Ion Ratio Lower Upper
 96 100
 61 140.2 94.7 175.9
 68 0.0 0.0 0.0





#22

2-Butanone

Concen: 107.943 ug/L

RT: 4.23 min Scan# 977

Delta R.T. -0.00 min

Lab File: VU034604.D

Acq: 17 Sep 2019 10:06

Instrument :

MSVOA_U

ClientSampleId :

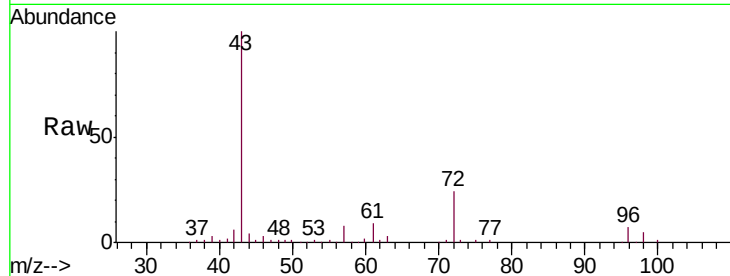
VSTD05056

Tgt Ion: 43 Resp: 178709

Ion Ratio Lower Upper

43 100

72 25.0 12.0 36.1



Abundance Ion 43.00 (42.70 to 43.70): VU034580.D (-960) (-)

Ion 72.00 (71.70 to 72.70): VU034580.D (-960) (-)

4.23

80000

60000

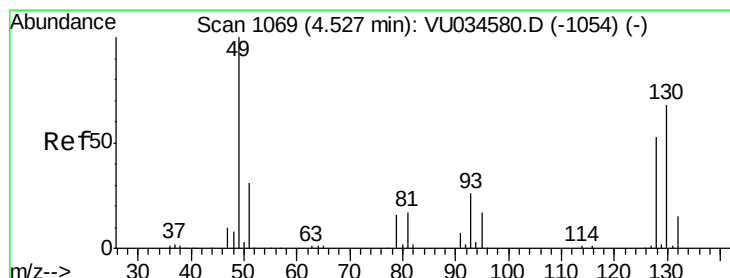
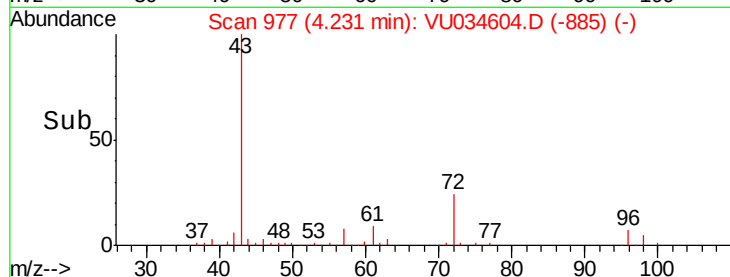
40000

20000

0

4.15 4.20 4.25 4.30 4.35

Time-->



#23

Bromochloromethane

Concen: 43.010 ug/L

RT: 4.52 min Scan# 1068

Delta R.T. -0.00 min

Lab File: VU034604.D

Acq: 17 Sep 2019 10:06

Tgt Ion: 128 Resp: 35608

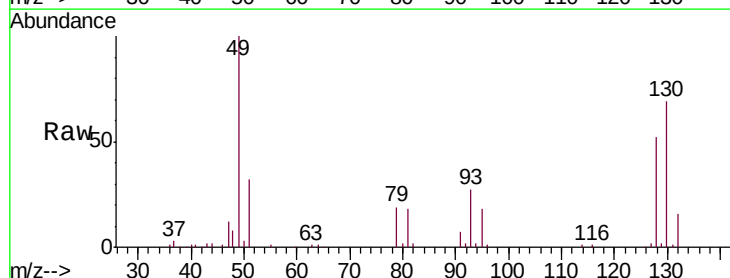
Ion Ratio Lower Upper

128 100

49 190.8 125.6 233.3

130 131.4 89.8 166.8

51 61.0 46.0 69.0



Abundance Ion 128.00 (127.70 to 128.70): VU034580.D (-1054) (-)

Ion 49.00 (48.70 to 49.70): VU034580.D (-1054) (-)

Ion 130.00 (129.70 to 130.70): VU034580.D (-1054) (-)

Ion 51.00 (50.70 to 51.70): VU034580.D (-1054) (-)

40000

30000

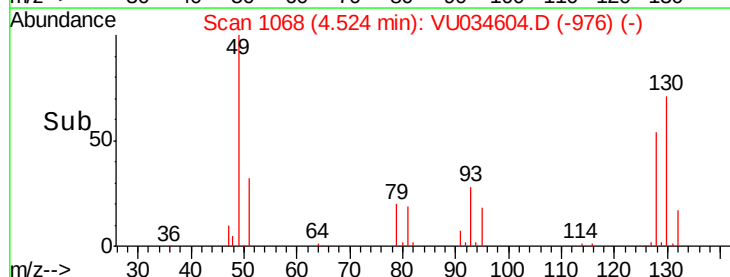
20000

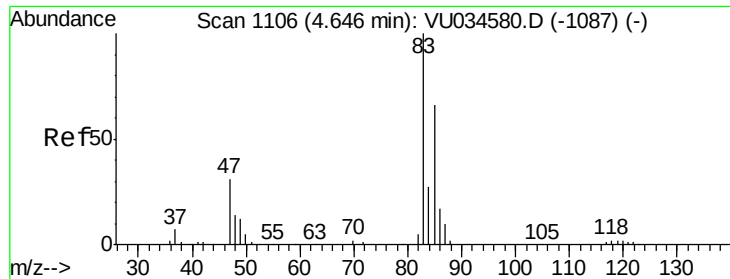
10000

0

4.50 4.52 4.54 4.56 4.58 4.60 4.62 4.64 4.66 4.68 4.70

Time-->

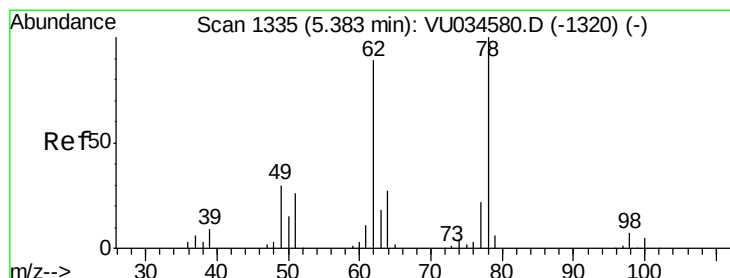
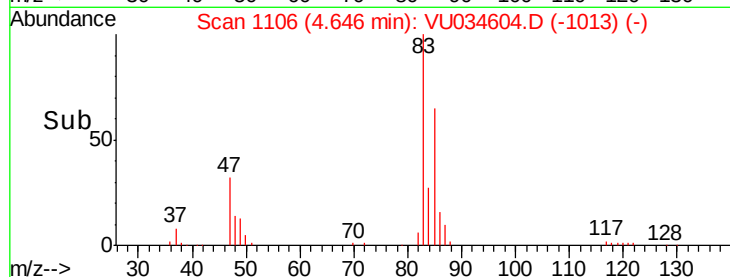
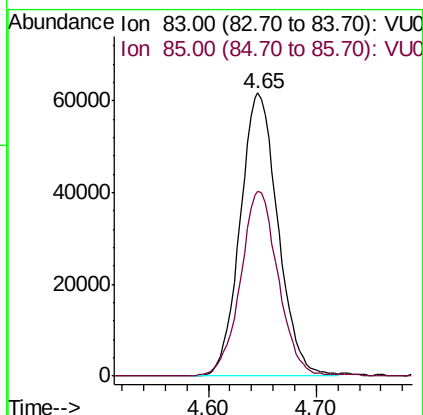
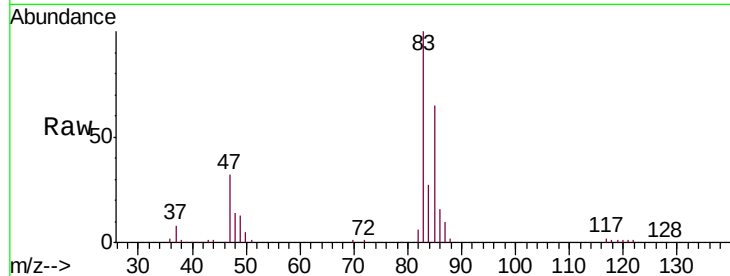




#25
Chloroform
Concen: 47.106 ug/L
RT: 4.65 min Scan# 1106
Delta R.T. -0.00 min
Lab File: VU034604.D
Acq: 17 Sep 2019 10:06

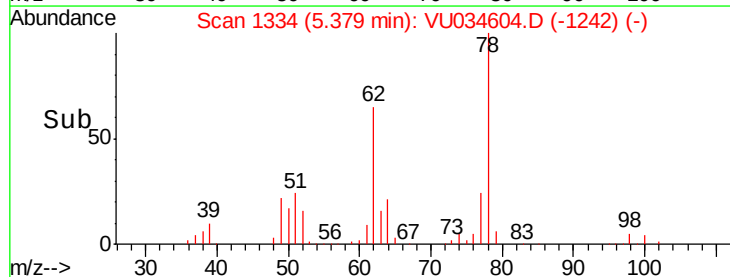
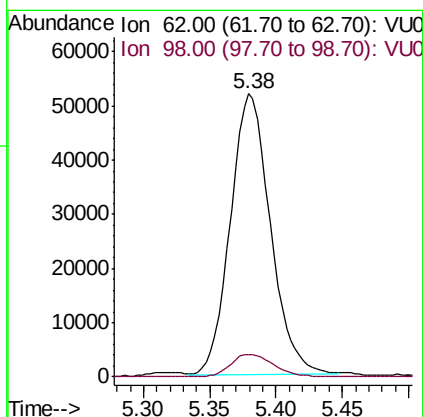
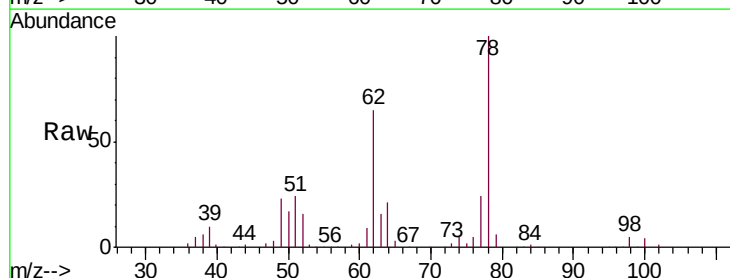
Instrument :
MSVOA_U
ClientSampleId :
VSTD05056

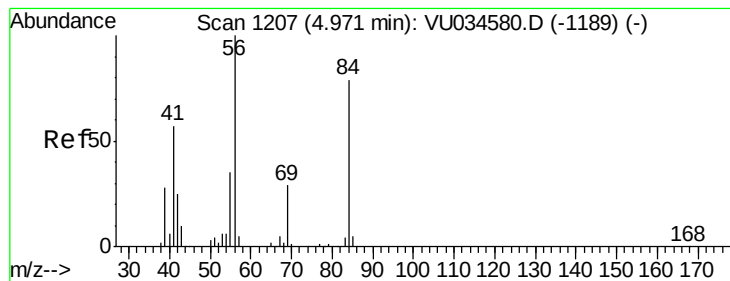
Tgt Ion: 83 Resp: 150173
Ion Ratio Lower Upper
83 100
85 65.5 46.6 86.6



#27
1,2-Dichloroethane
Concen: 48.343 ug/L
RT: 5.38 min Scan# 1334
Delta R.T. -0.00 min
Lab File: VU034604.D
Acq: 17 Sep 2019 10:06

Tgt Ion: 62 Resp: 109124
Ion Ratio Lower Upper
62 100
98 7.8 7.4 11.0





#29

Cyclohexane

Concen: 45.188 ug/L

RT: 4.97 min Scan# 1207

Delta R.T. -0.00 min

Lab File: VU034604.D

Acq: 17 Sep 2019 10:06

Instrument :

MSVOA_U

ClientSampleId :

VSTD05056

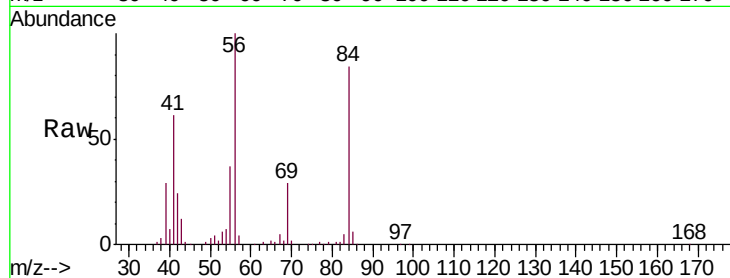
Tgt Ion: 56 Resp: 111366

Ion Ratio Lower Upper

56 100

69 29.2 23.3 34.9

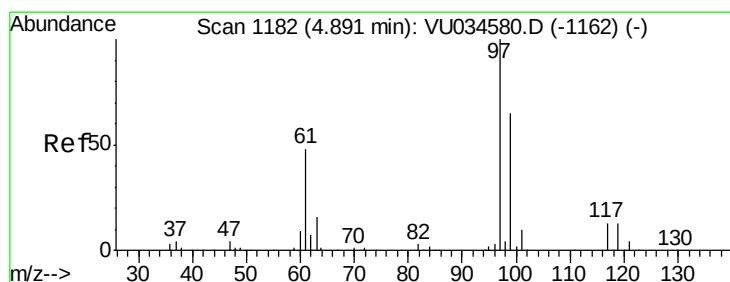
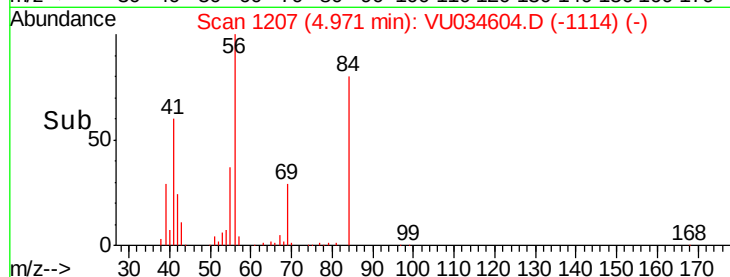
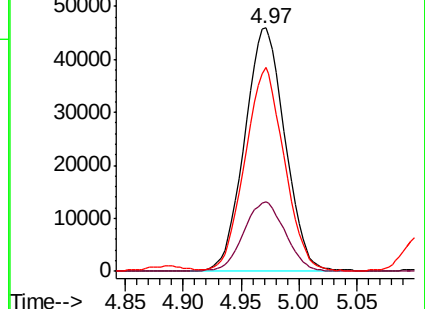
84 80.7 64.2 96.4



Abundance Ion 56.00 (55.70 to 56.70): VU034604.D (-1114) (-)

Ion 69.00 (68.70 to 69.70): VU034604.D (-1114) (-)

Ion 84.00 (83.70 to 84.70): VU034604.D (-1114) (-)



#30

1,1,1-Trichloroethane

Concen: 45.124 ug/L

RT: 4.89 min Scan# 1182

Delta R.T. -0.00 min

Lab File: VU034604.D

Acq: 17 Sep 2019 10:06

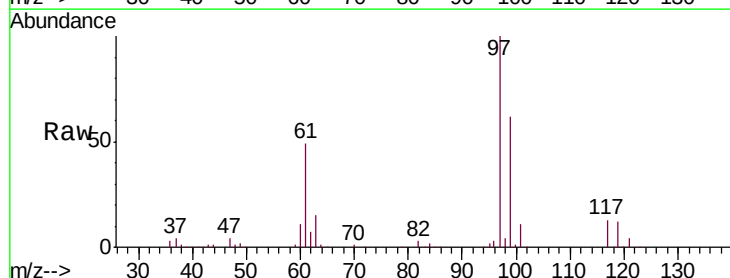
Tgt Ion: 97 Resp: 113991

Ion Ratio Lower Upper

97 100

99 64.3 50.7 76.1

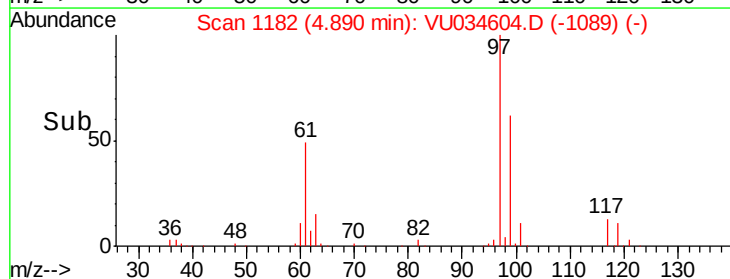
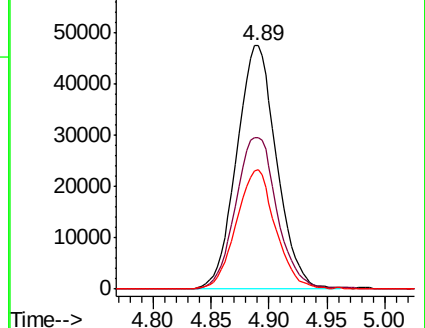
61 48.0 36.9 55.3

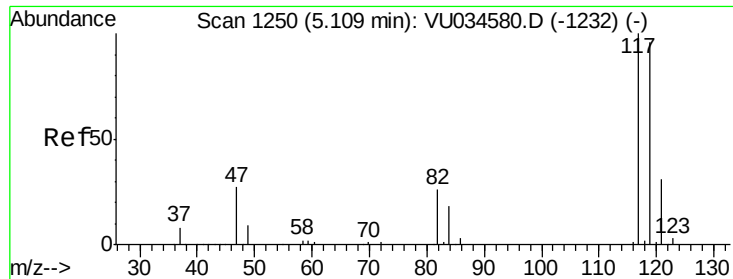


Abundance Ion 97.00 (96.70 to 97.70): VU034604.D (-1089) (-)

Ion 99.00 (98.70 to 99.70): VU034604.D (-1089) (-)

Ion 61.05 (60.75 to 61.75): VU034604.D (-1089) (-)





#31

Carbon tetrachloride

Concen: 45.625 ug/L

RT: 5.11 min Scan# 1250

Delta R.T. -0.00 min

Lab File: VU034604.D

Acq: 17 Sep 2019 10:06

Instrument :

MSVOA_U

ClientSampleId :

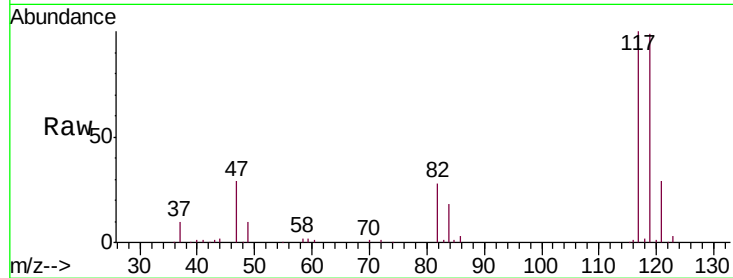
VSTD05056

Tgt Ion:117 Resp: 97303

Ion Ratio Lower Upper

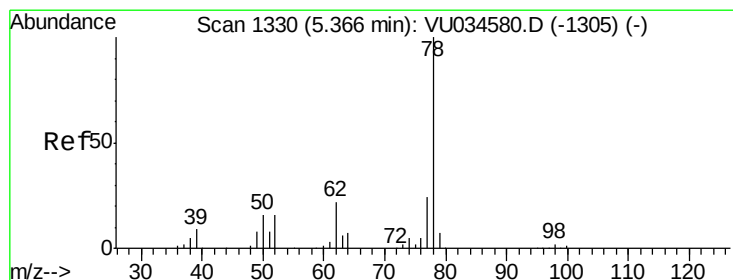
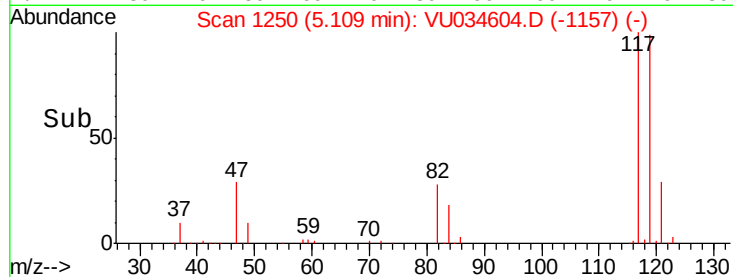
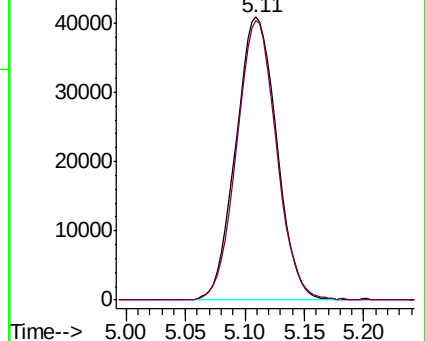
117 100

119 96.2 77.2 115.8



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V



#33

Benzene

Concen: 45.621 ug/L

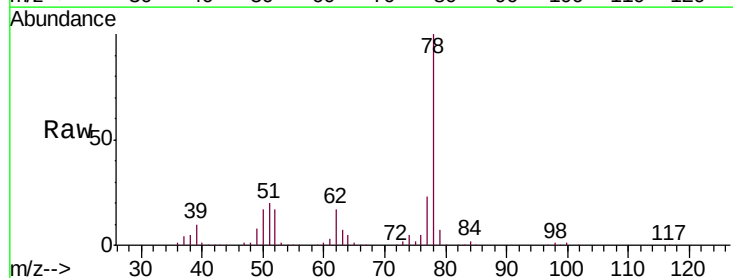
RT: 5.36 min Scan# 1329

Delta R.T. -0.00 min

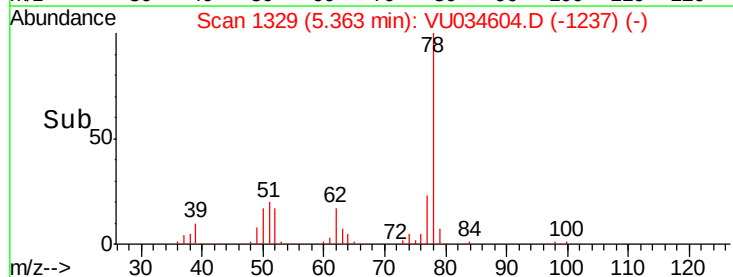
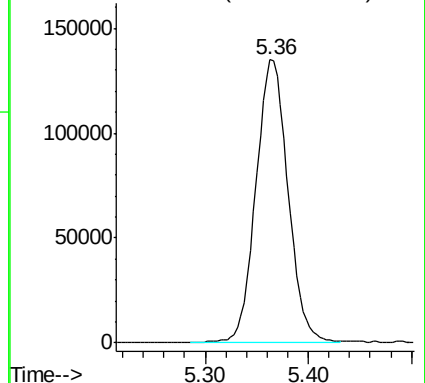
Lab File: VU034604.D

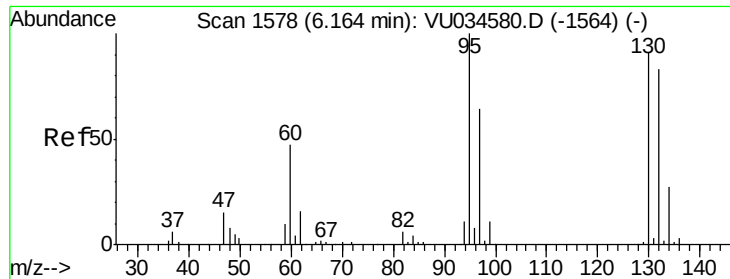
Acq: 17 Sep 2019 10:06

Tgt Ion: 78 Resp: 292550



Abundance Ion 78.00 (77.70 to 78.70): VU0





#34

Trichloroethene

Concen: 45.175 ug/L

RT: 6.16 min Scan# 1578

Delta R.T. -0.00 min

Lab File: VU034604.D

Acq: 17 Sep 2019 10:06

Instrument :

MSVOA_U

ClientSampleId :

VSTD05056

Tgt Ion: 95 Resp: 72163

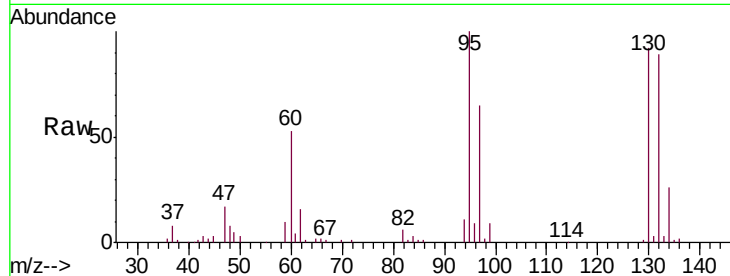
Ion Ratio Lower Upper

95 100

97 65.2 45.4 84.4

132 89.0 65.2 121.0

130 91.5 68.5 127.3

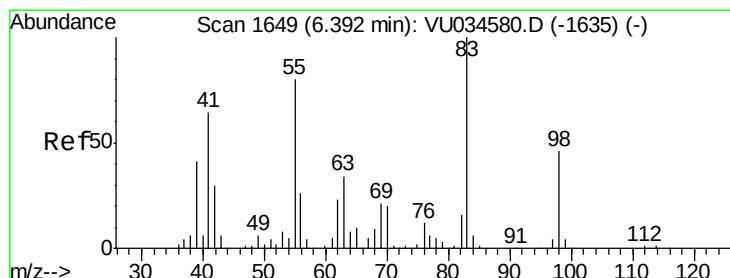
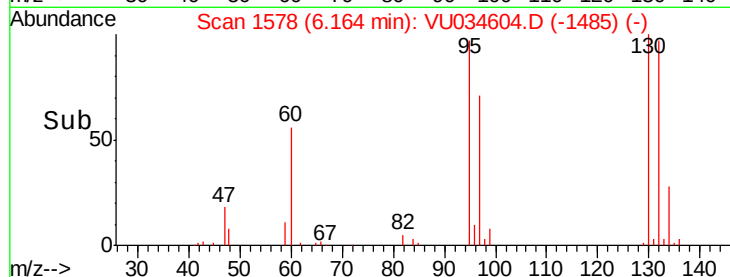
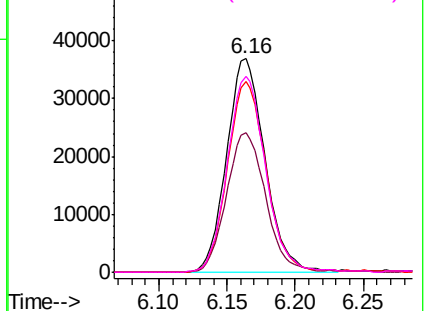


Abundance Ion 95.00 (94.70 to 95.70): VU0

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: 46.211 ug/L

RT: 6.39 min Scan# 1649

Delta R.T. -0.00 min

Lab File: VU034604.D

Acq: 17 Sep 2019 10:06

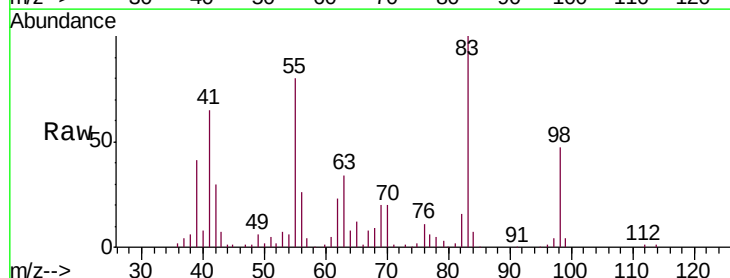
Tgt Ion: 83 Resp: 111909

Ion Ratio Lower Upper

83 100

55 79.5 63.0 94.6

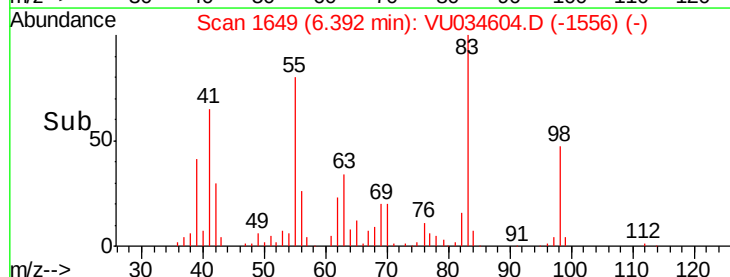
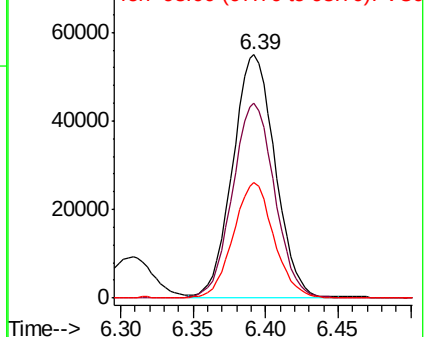
98 45.3 36.2 54.2

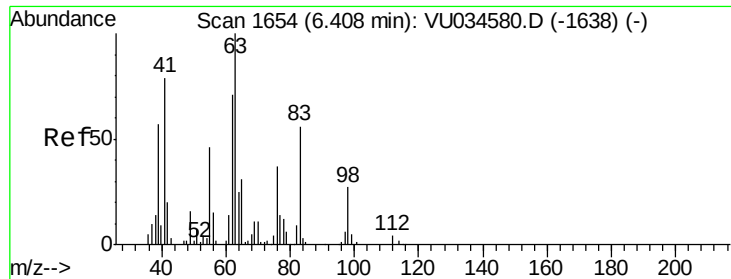


Abundance Ion 83.00 (82.70 to 83.70): VU0

Ion 55.00 (54.70 to 55.70): VU0

Ion 98.00 (97.70 to 98.70): VU0

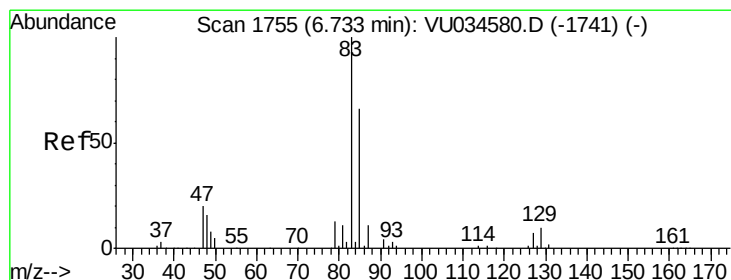
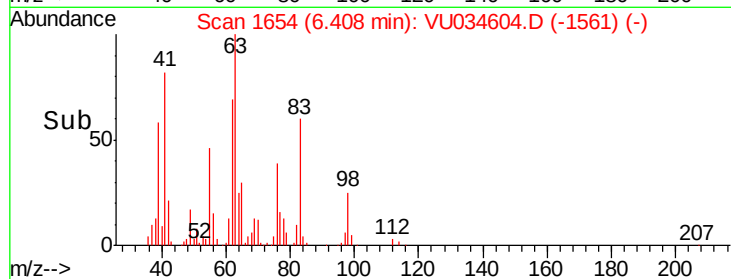
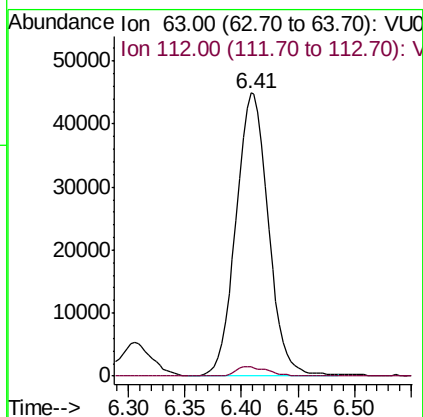
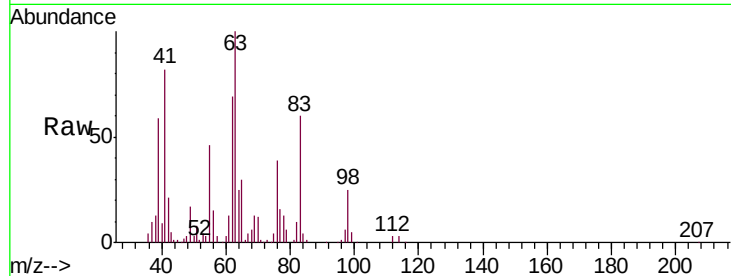




#37
 1,2-Dichloropropane
 Concen: 46.234 ug/L
 RT: 6.41 min Scan# 1654
 Delta R.T. -0.00 min
 Lab File: VU034604.D
 Acq: 17 Sep 2019 10:06

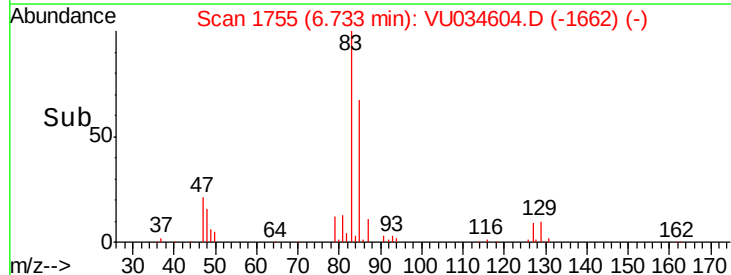
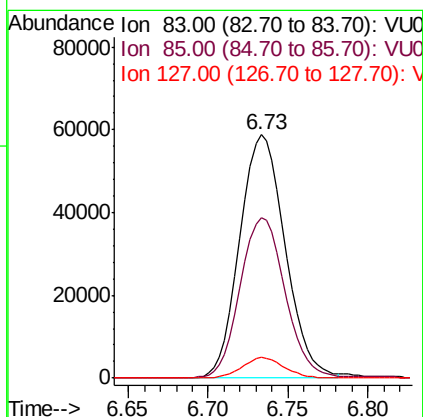
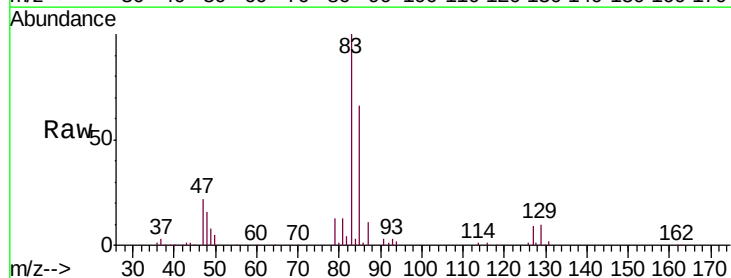
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05056

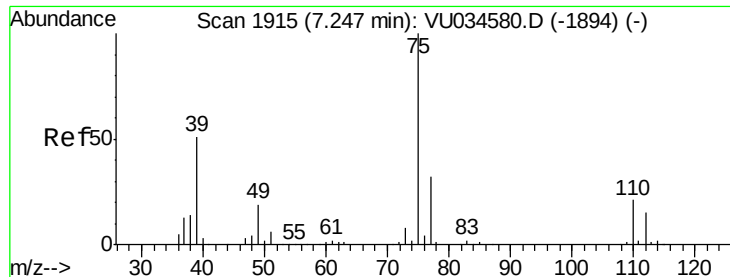
Tgt Ion: 63 Resp: 89986
 Ion Ratio Lower Upper
 63 100
 112 3.3 2.9 4.3



#38
 Bromodichloromethane
 Concen: 44.673 ug/L
 RT: 6.73 min Scan# 1755
 Delta R.T. -0.00 min
 Lab File: VU034604.D
 Acq: 17 Sep 2019 10:06

Tgt Ion: 83 Resp: 113664
 Ion Ratio Lower Upper
 83 100
 85 66.0 46.1 85.7
 127 8.6 7.0 10.6

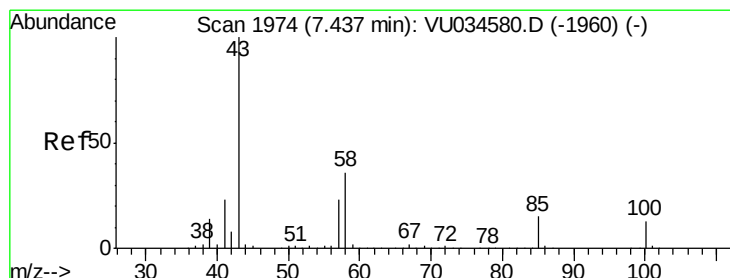
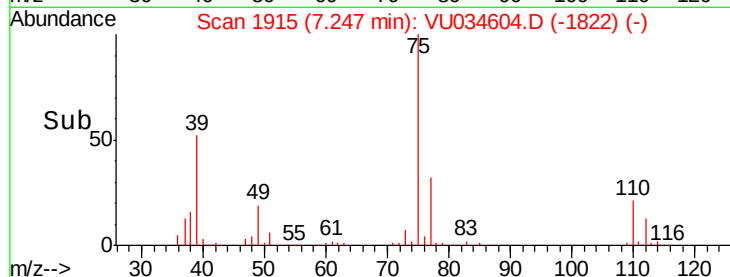
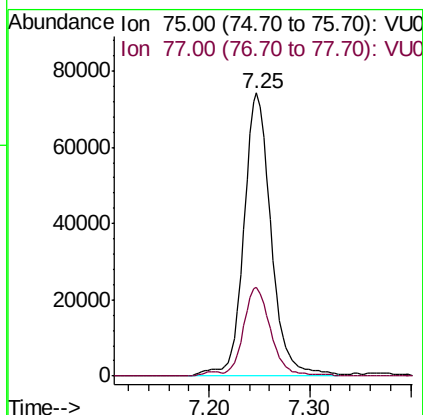
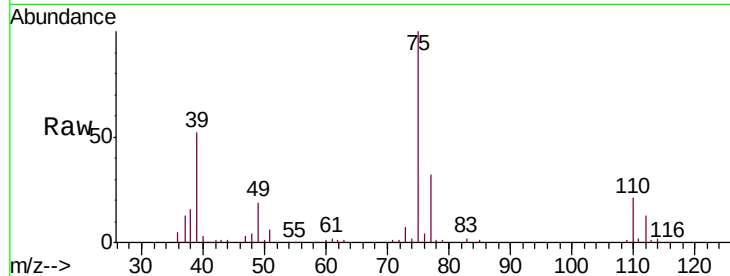




#39
 cis-1,3-Dichloropropene
 Concen: 47.465 ug/L
 RT: 7.25 min Scan# 1915
 Delta R.T. -0.00 min
 Lab File: VU034604.D
 Acq: 17 Sep 2019 10:06

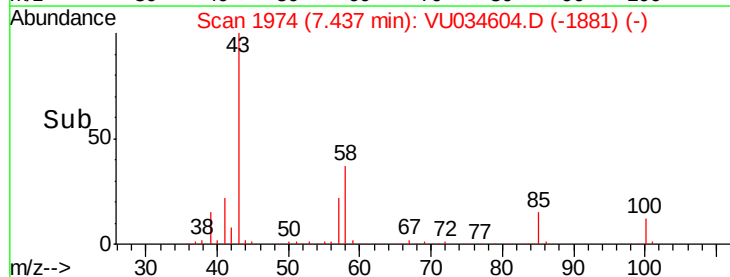
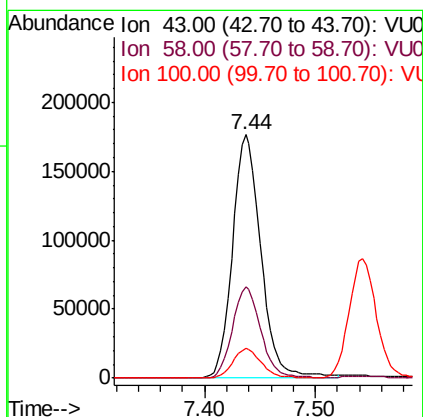
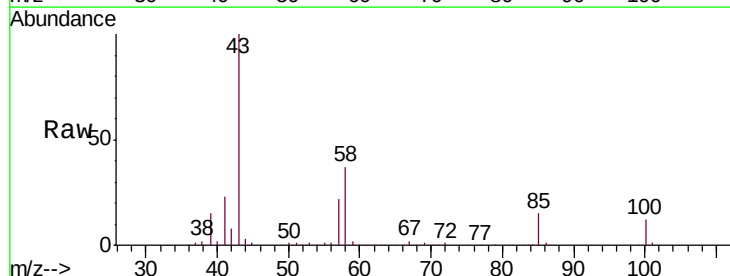
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05056

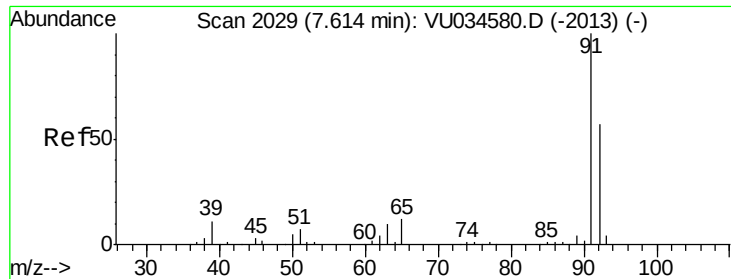
Tgt Ion: 75 Resp: 138794
 Ion Ratio Lower Upper
 75 100
 77 31.5 22.3 41.3



#40
 4-Methyl-2-pentanone
 Concen: 92.821 ug/L
 RT: 7.44 min Scan# 1974
 Delta R.T. -0.00 min
 Lab File: VU034604.D
 Acq: 17 Sep 2019 10:06

Tgt Ion: 43 Resp: 314253
 Ion Ratio Lower Upper
 43 100
 58 37.5 30.4 45.6
 100 12.2 10.2 15.4





#42

Toluene

Concen: 45.750 ug/L

RT: 7.61 min Scan# 2029

Delta R.T. -0.00 min

Lab File: VU034604.D

Acq: 17 Sep 2019 10:06

Instrument :

MSVOA_U

ClientSampleId :

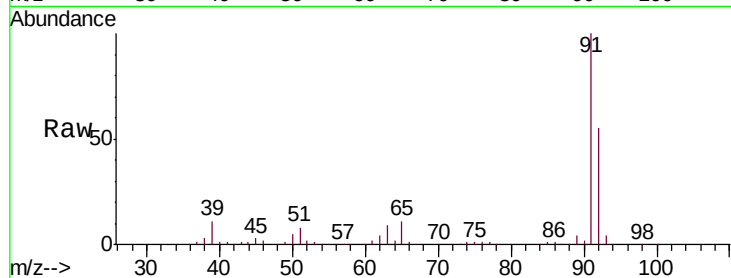
VSTD05056

Tgt Ion: 91 Resp: 316325

Ion Ratio Lower Upper

91 100

92 54.8 38.4 71.4



Abundance Ion 91.00 (90.70 to 91.70): VU034580.D (-2013) (-)

Ion 92.00 (91.70 to 92.70): VU034580.D (-2013) (-)

7.61

200000

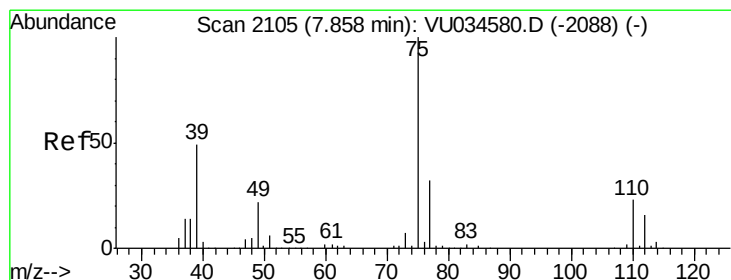
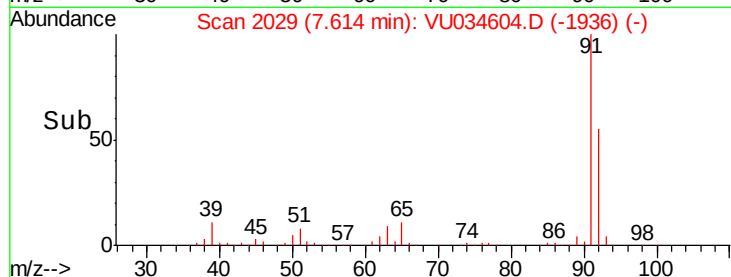
150000

100000

50000

0

Time-->



#44

trans-1,3-Dichloropropene

Concen: 46.406 ug/L

RT: 7.86 min Scan# 2105

Delta R.T. -0.00 min

Lab File: VU034604.D

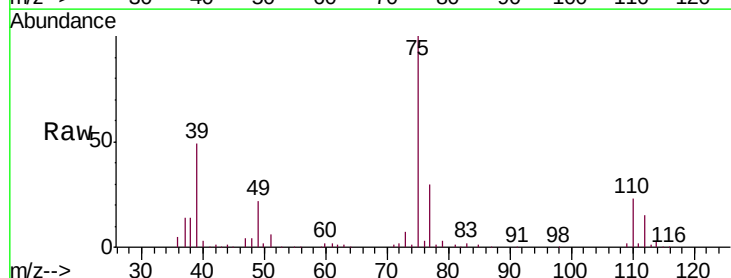
Acq: 17 Sep 2019 10:06

Tgt Ion: 75 Resp: 124431

Ion Ratio Lower Upper

75 100

77 30.1 22.9 42.5



Abundance Ion 75.00 (74.70 to 75.70): VU034580.D (-2088) (-)

Ion 77.00 (76.70 to 77.70): VU034580.D (-2088) (-)

7.86

80000

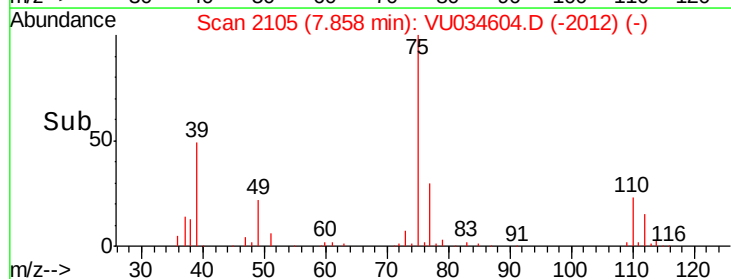
60000

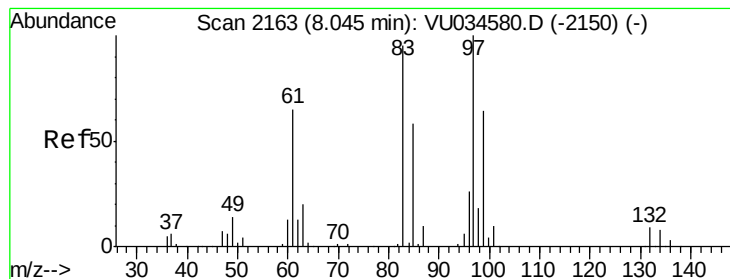
40000

20000

0

Time-->





#45

1,1,2-Trichloroethane

Concen: 45.778 ug/L

RT: 8.04 min Scan# 2163

Delta R.T. -0.00 min

Lab File: VU034604.D

Acq: 17 Sep 2019 10:06

Instrument :

MSVOA_U

ClientSampleId :

VSTD05056

Tgt Ion: 97 Resp: 81309

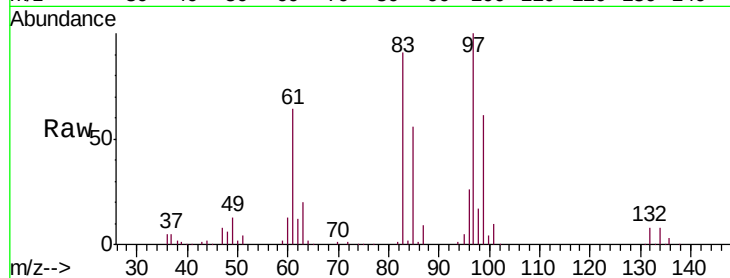
Ion Ratio Lower Upper

97 100

99 61.4 42.4 78.8

83 91.3 62.5 116.1

85 56.4 40.7 75.7

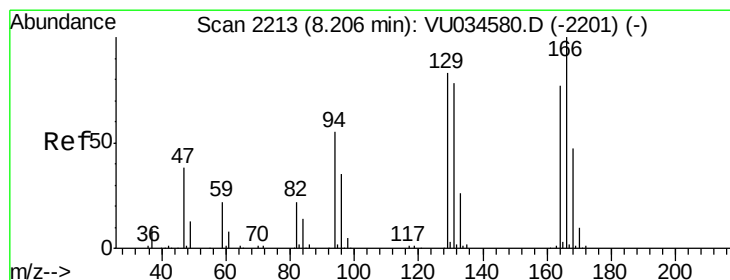
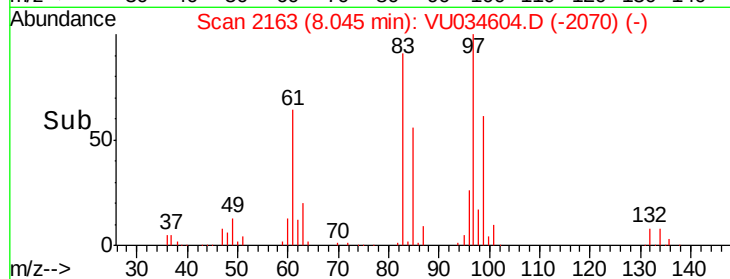
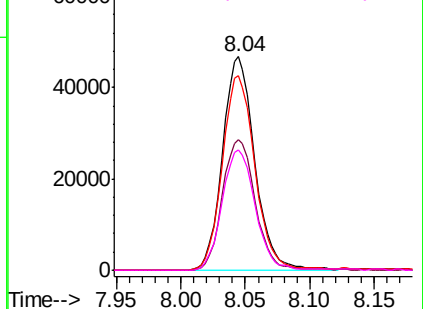


Abundance Ion 97.00 (96.70 to 97.70): VU0

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: 42.761 ug/L

RT: 8.21 min Scan# 2213

Delta R.T. -0.00 min

Lab File: VU034604.D

Acq: 17 Sep 2019 10:06

Tgt Ion: 164 Resp: 45341

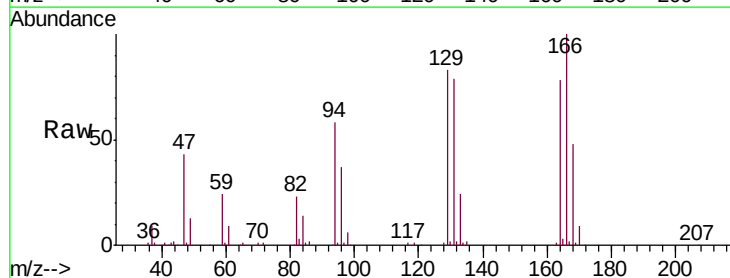
Ion Ratio Lower Upper

164 100

129 106.4 74.5 138.3

131 101.0 70.4 130.8

166 128.3 91.7 170.3

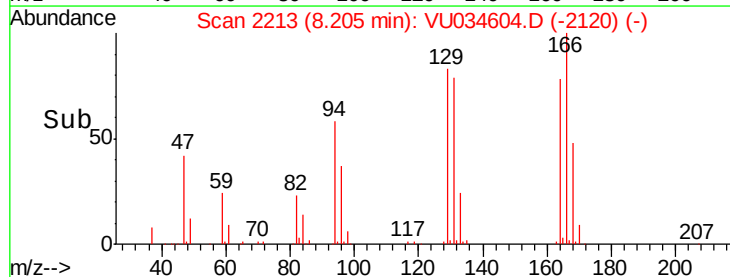
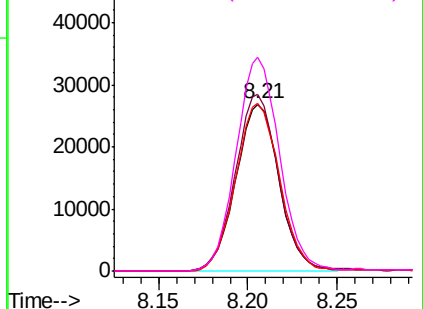


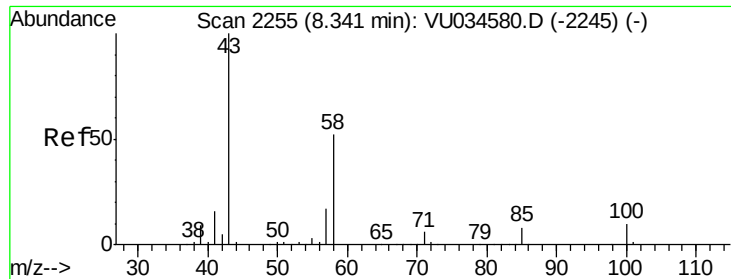
Abundance Ion 164.00 (163.70 to 164.70): V

Ion 129.00 (128.70 to 129.70): V

Ion 131.00 (130.70 to 131.70): V

Ion 166.00 (165.70 to 166.70): V

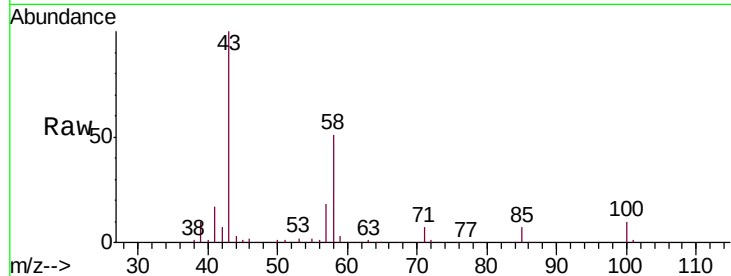




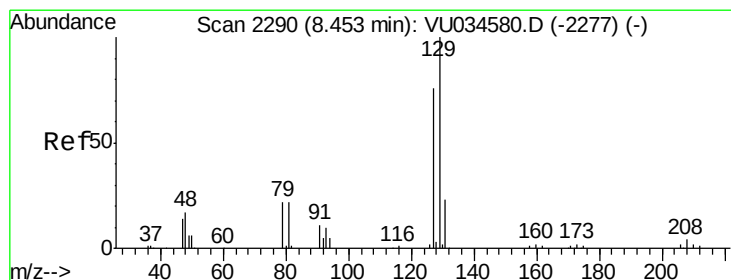
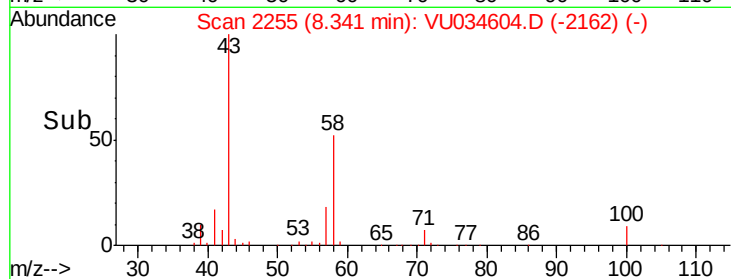
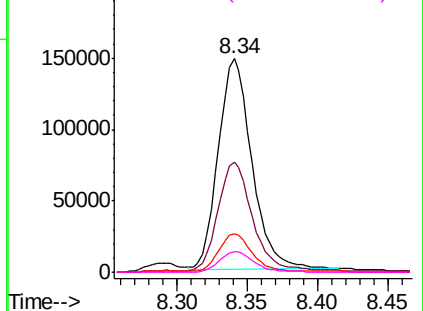
#48
2-Hexanone
Concen: 96.370 ug/L
RT: 8.34 min Scan# 2255
Delta R.T. -0.00 min
Lab File: VU034604.D
Acq: 17 Sep 2019 10:06

Instrument :
MSVOA_U
ClientSampleId :
VSTD05056

Tgt Ion: 43 Resp: 245112
Ion Ratio Lower Upper
43 100
58 55.4 43.3 64.9
57 17.4 13.1 19.7
100 10.3 8.2 12.4

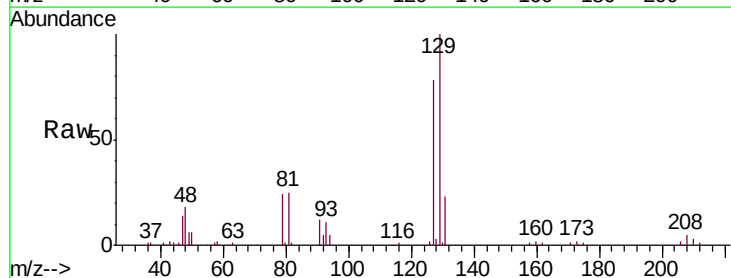


Abundance Ion 43.00 (42.70 to 43.70): VU034580.D (-2245) (-)
Ion 58.00 (57.70 to 58.70): VU034580.D (-2245) (-)
Ion 57.00 (56.70 to 57.70): VU034580.D (-2245) (-)
Ion 100.00 (99.70 to 100.70): VU034580.D (-2245) (-)

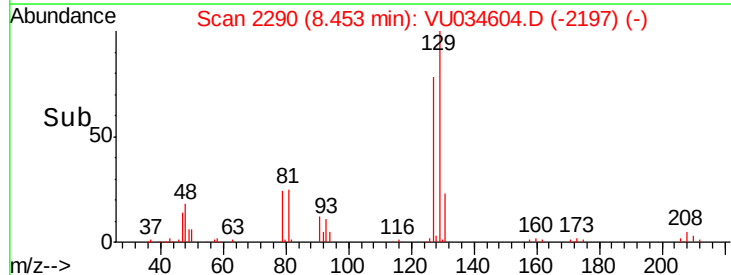
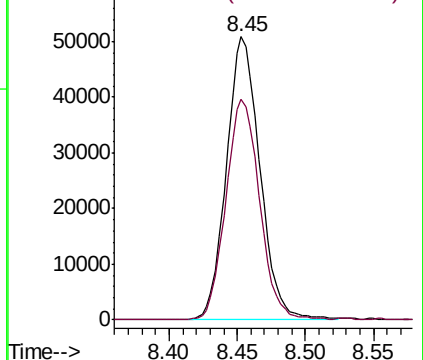


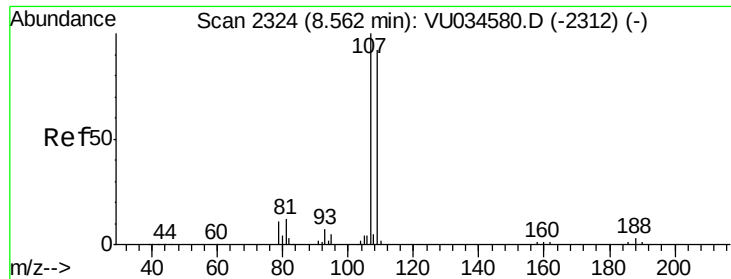
#49
Dibromochloromethane
Concen: 43.247 ug/L
RT: 8.45 min Scan# 2290
Delta R.T. -0.00 min
Lab File: VU034604.D
Acq: 17 Sep 2019 10:06

Tgt Ion: 129 Resp: 86995
Ion Ratio Lower Upper
129 100
127 78.0 53.5 99.5



Abundance Ion 129.00 (128.70 to 129.70): VU034580.D (-2277) (-)
Ion 127.00 (126.70 to 127.70): VU034580.D (-2277) (-)

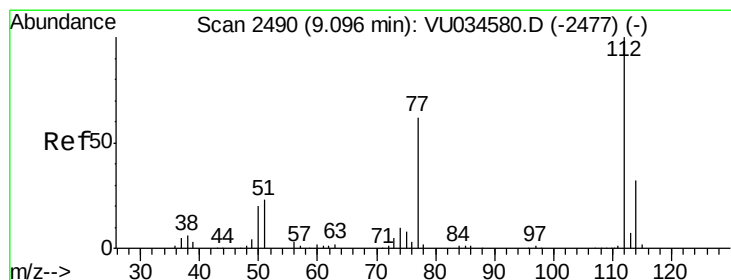
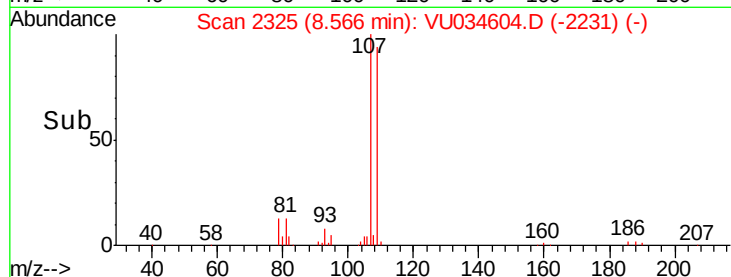
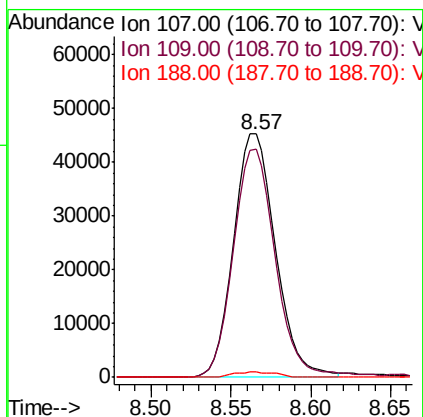
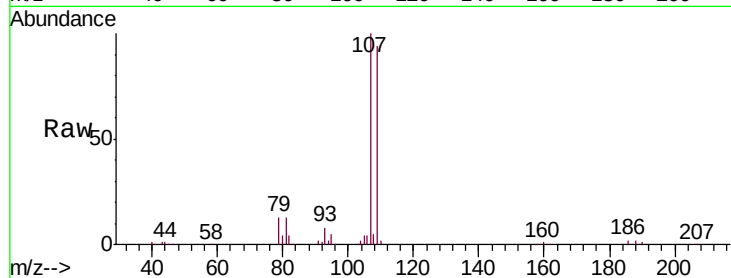




#50
 1,2-Dibromoethane
 Concen: 43.579 ug/L
 RT: 8.57 min Scan# 2325
 Delta R.T. 0.00 min
 Lab File: VU034604.D
 Acq: 17 Sep 2019 10:06

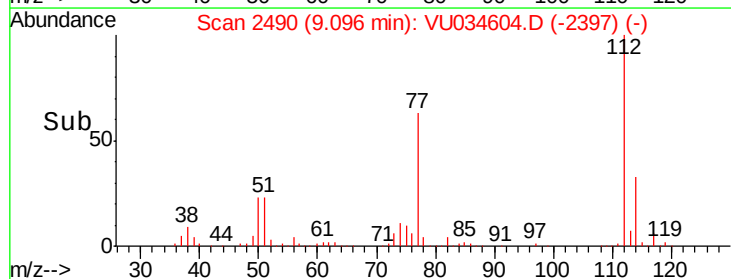
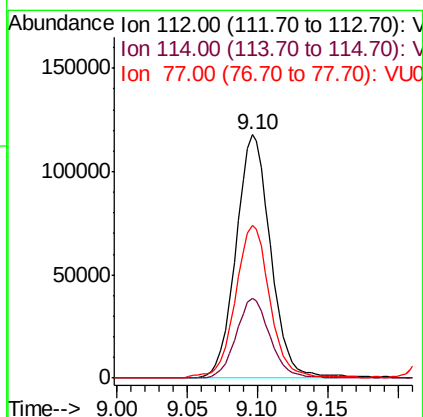
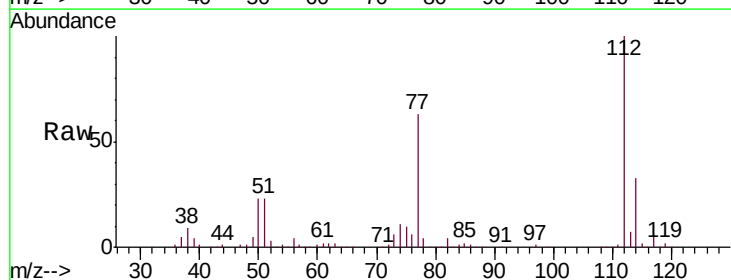
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05056

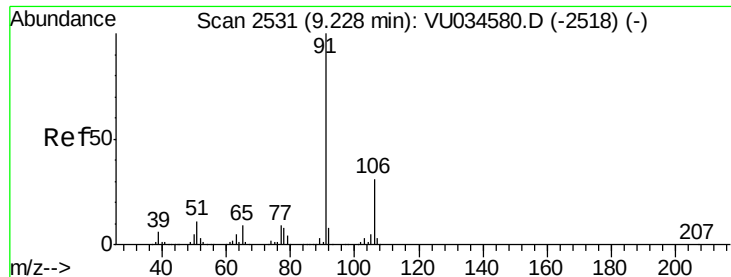
Tgt Ion:107 Resp: 80903
 Ion Ratio Lower Upper
 107 100
 109 93.6 65.9 122.3
 188 2.1 2.6 3.8#



#51
 Chlorobenzene
 Concen: 44.707 ug/L
 RT: 9.10 min Scan# 2490
 Delta R.T. -0.00 min
 Lab File: VU034604.D
 Acq: 17 Sep 2019 10:06

Tgt Ion:112 Resp: 201947
 Ion Ratio Lower Upper
 112 100
 114 32.9 23.0 42.8
 77 62.9 49.0 73.6





#52

Ethylbenzene

Concen: 45.515 ug/L

RT: 9.23 min Scan# 2531

Delta R.T. -0.00 min

Lab File: VU034604.D

Acq: 17 Sep 2019 10:06

Instrument :

MSVOA_U

ClientSampleId :

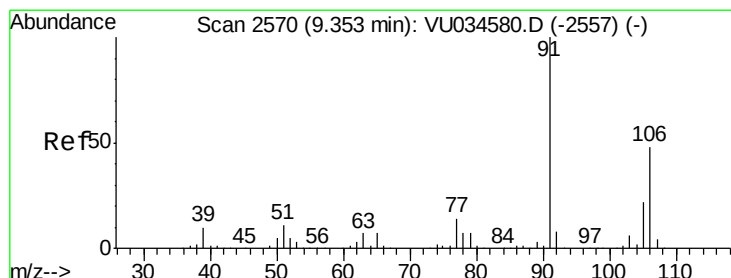
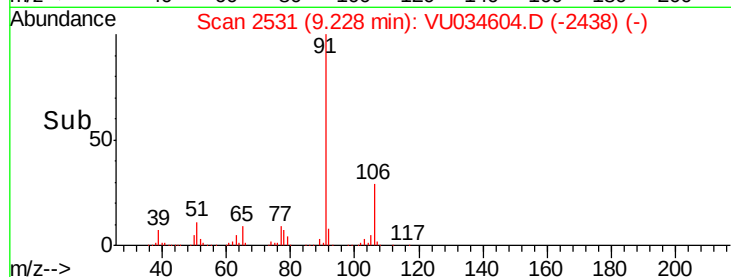
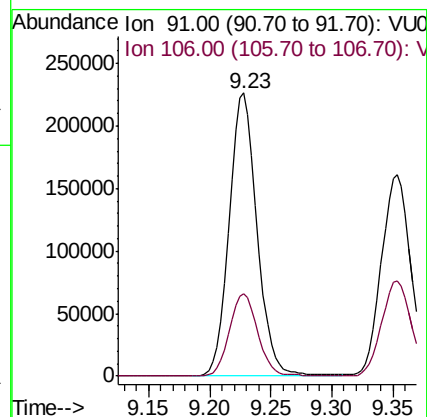
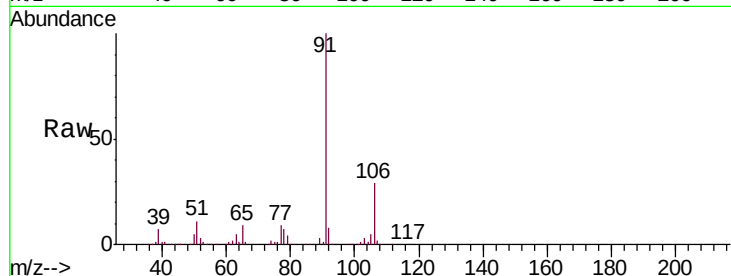
VSTD05056

Tgt Ion: 91 Resp: 364105

Ion Ratio Lower Upper

91 100

106 29.3 21.4 39.8



#53

m,p-Xylene

Concen: 44.843 ug/L

RT: 9.35 min Scan# 2570

Delta R.T. -0.00 min

Lab File: VU034604.D

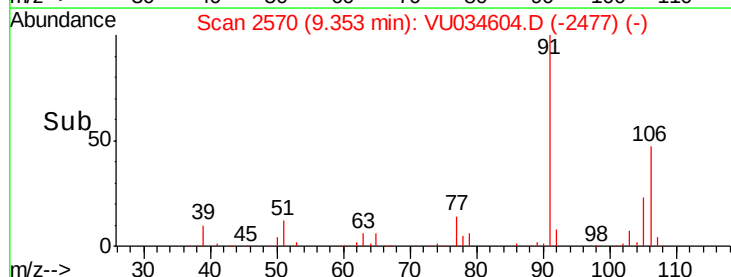
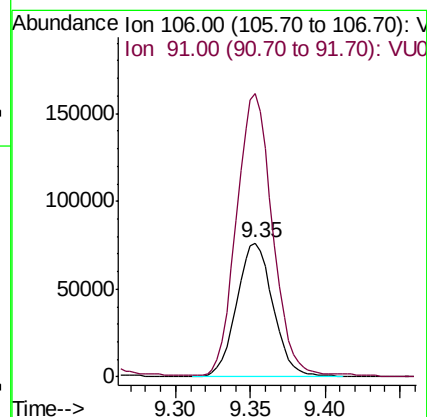
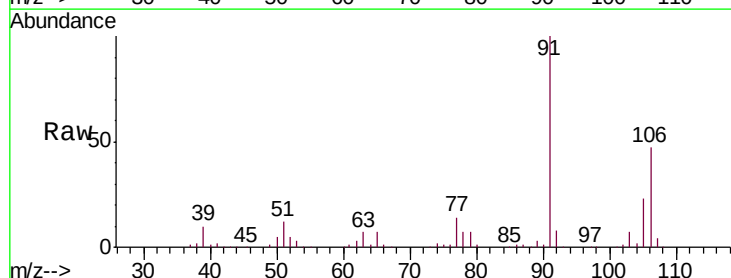
Acq: 17 Sep 2019 10:06

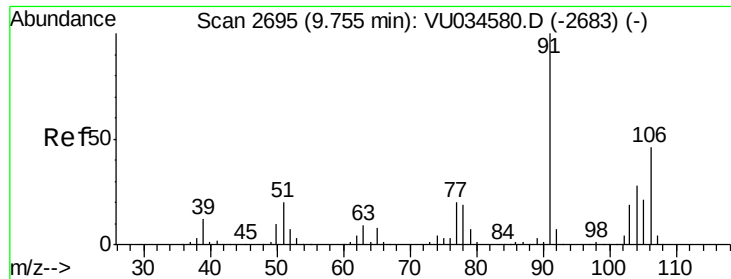
Tgt Ion: 106 Resp: 128971

Ion Ratio Lower Upper

106 100

91 211.5 142.6 264.8

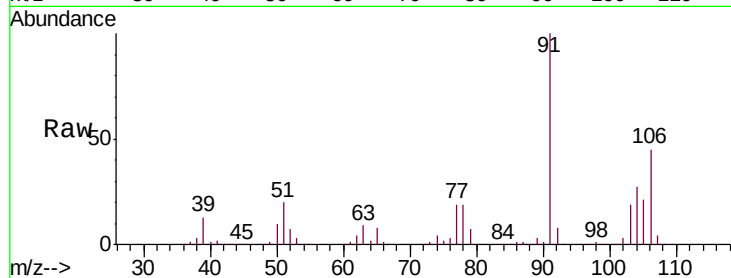




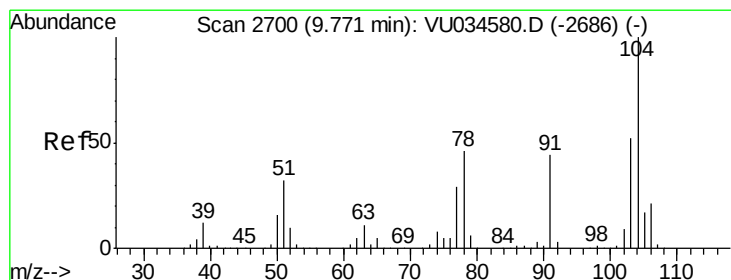
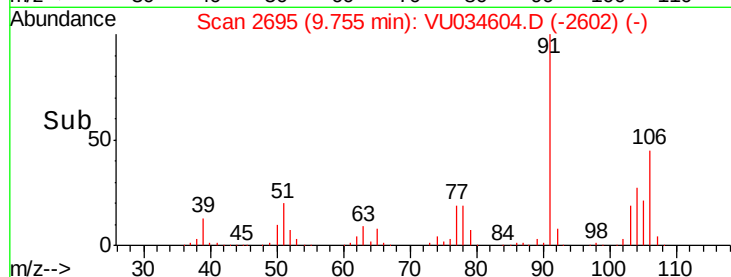
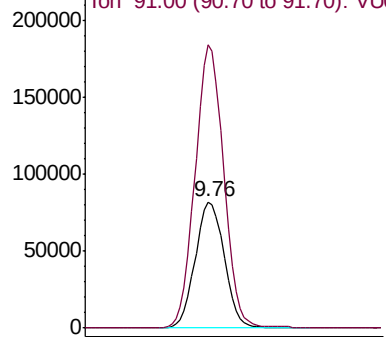
#54
o-xylene
Concen: 45.483 ug/L
RT: 9.76 min Scan# 2695
Delta R.T. -0.00 min
Lab File: VU034604.D
Acq: 17 Sep 2019 10:06

Instrument :
MSVOA_U
ClientSampleId :
VSTD05056

Tgt Ion:106 Resp: 132714
Ion Ratio Lower Upper
106 100
91 223.7 149.4 277.5

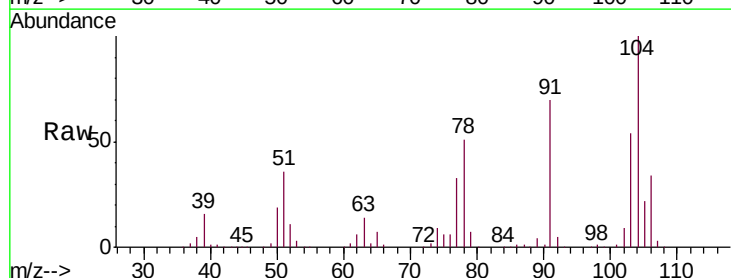


Abundance Ion 106.00 (105.70 to 106.70): V
Ion 91.00 (90.70 to 91.70): VU0

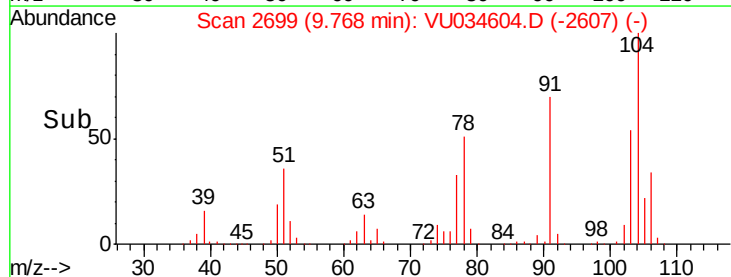
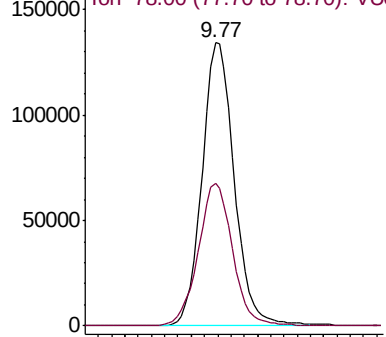


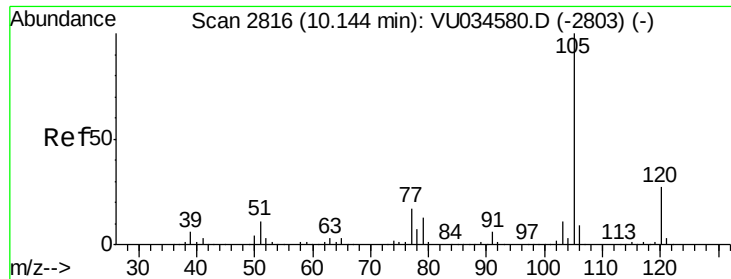
#55
Styrene
Concen: 45.129 ug/L
RT: 9.77 min Scan# 2699
Delta R.T. -0.00 min
Lab File: VU034604.D
Acq: 17 Sep 2019 10:06

Tgt Ion:104 Resp: 226651
Ion Ratio Lower Upper
104 100
78 50.6 32.8 61.0



Abundance Ion 104.00 (103.70 to 104.70): V
Ion 78.00 (77.70 to 78.70): VU0





#56

Isopropylbenzene

Concen: 44.919 ug/L

RT: 10.14 min Scan# 2816

Delta R.T. -0.00 min

Lab File: VU034604.D

Acq: 17 Sep 2019 10:06

Instrument :

MSVOA_U

ClientSampleId :

VSTD05056

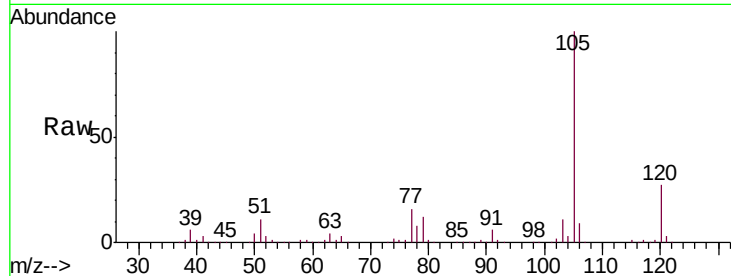
Tgt Ion: 105 Resp: 352523

Ion Ratio Lower Upper

105 100

120 26.1 21.2 31.8

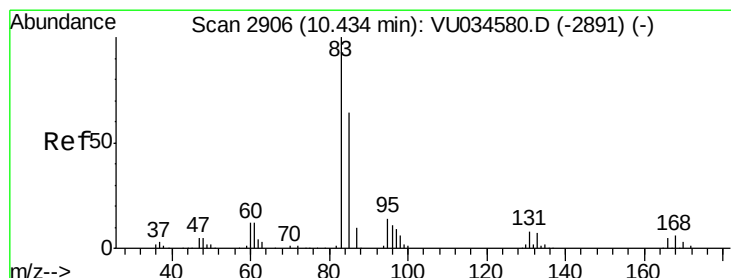
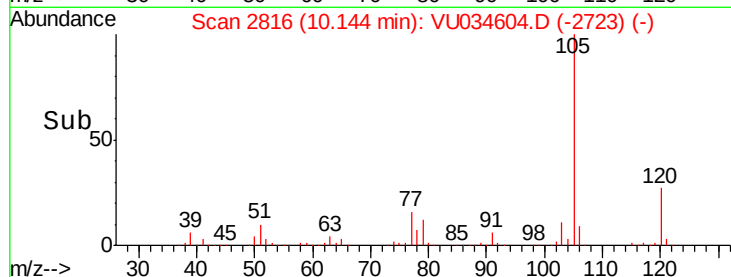
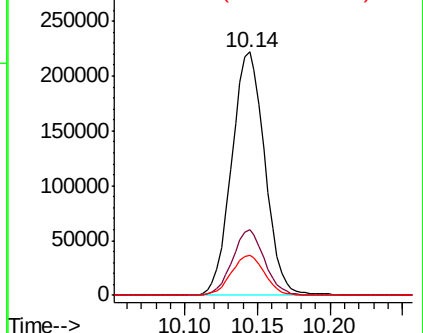
77 16.7 13.5 20.3



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: 44.159 ug/L

RT: 10.43 min Scan# 2906

Delta R.T. -0.00 min

Lab File: VU034604.D

Acq: 17 Sep 2019 10:06

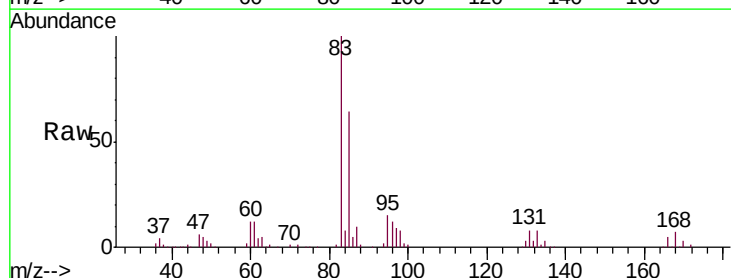
Tgt Ion: 83 Resp: 155975

Ion Ratio Lower Upper

83 100

85 64.2 44.5 82.7

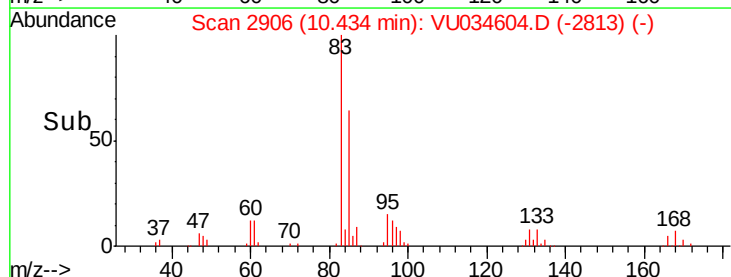
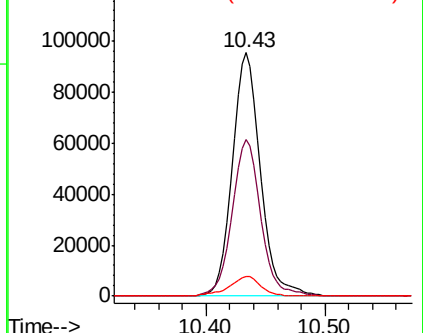
131 8.1 6.8 10.2

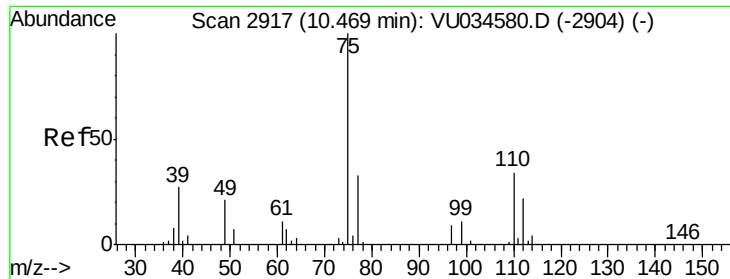


Abundance Ion 83.00 (82.70 to 83.70): V

Ion 85.00 (84.70 to 85.70): V

Ion 131.00 (130.70 to 131.70): V





#59

1,2,3-Trichloropropane

Concen: 45.292 ug/L

RT: 10.47 min Scan# 2917

Delta R.T. -0.00 min

Lab File: VU034604.D

Acq: 17 Sep 2019 10:06

Instrument :

MSVOA_U

ClientSampleId :

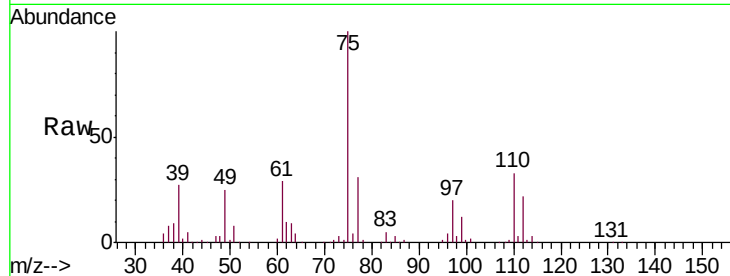
VSTD05056

Tgt Ion: 75 Resp: 120408

Ion Ratio Lower Upper

75 100

77 32.1 26.1 39.1



Abundance Ion 75.00 (74.70 to 75.70): VU034580.D (-2904) (-)

Ion 77.00 (76.70 to 77.70): VU034580.D (-2904) (-)

10.47

80000

60000

40000

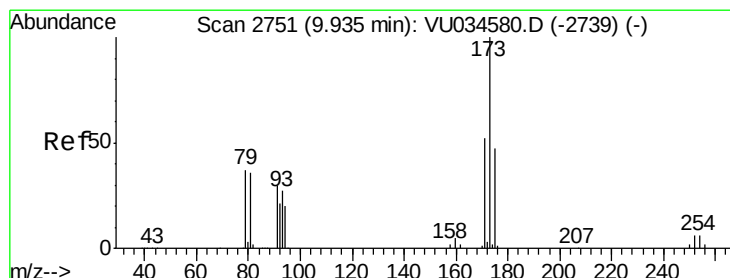
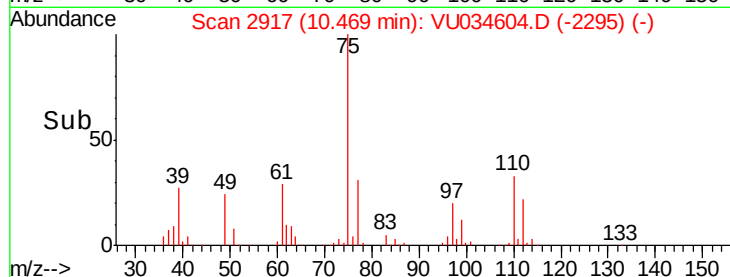
20000

0

10.40

10.50

Time-->



#61

Bromoform

Concen: 41.089 ug/L

RT: 9.94 min Scan# 2751

Delta R.T. -0.00 min

Lab File: VU034604.D

Acq: 17 Sep 2019 10:06

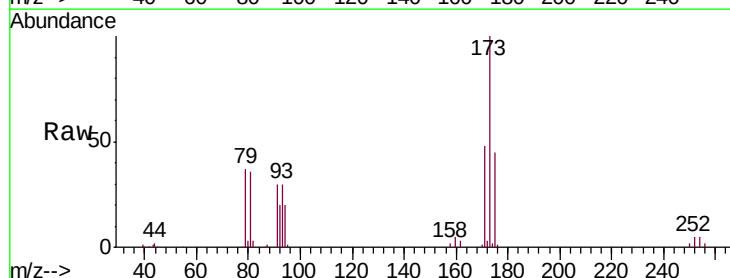
Tgt Ion: 173 Resp: 59537

Ion Ratio Lower Upper

173 100

175 45.7 37.6 56.4

254 5.2 4.6 7.0



Abundance Ion 173.00 (172.70 to 173.70): VU034580.D (-2739) (-)

Ion 175.00 (174.70 to 175.70): VU034580.D (-2739) (-)

Ion 254.00 (253.70 to 254.70): VU034580.D (-2739) (-)

9.94

40000

30000

20000

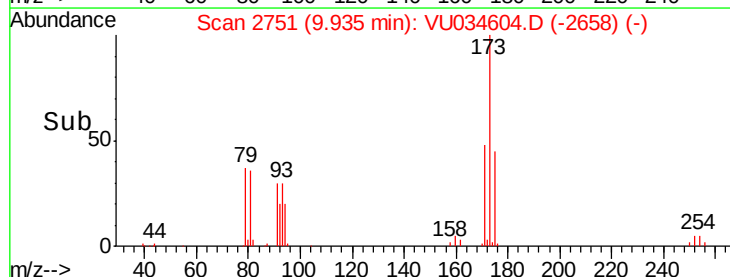
10000

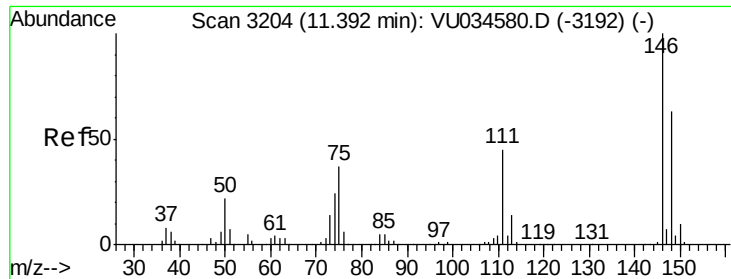
0

9.90

10.00

Time-->





#62

1,3-Dichlorobenzene

Concen: 43.184 ug/L

RT: 11.39 min Scan# 3204

Delta R.T. -0.00 min

Lab File: VU034604.D

Acq: 17 Sep 2019 10:06

Instrument :

MSVOA_U

ClientSampleId :

VSTD05056

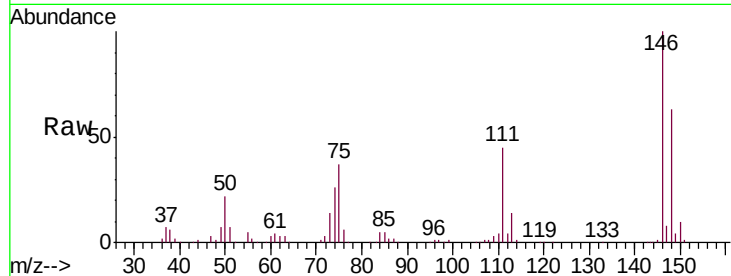
Tgt Ion:146 Resp: 146937

Ion Ratio Lower Upper

146 100

111 45.3 30.2 56.0

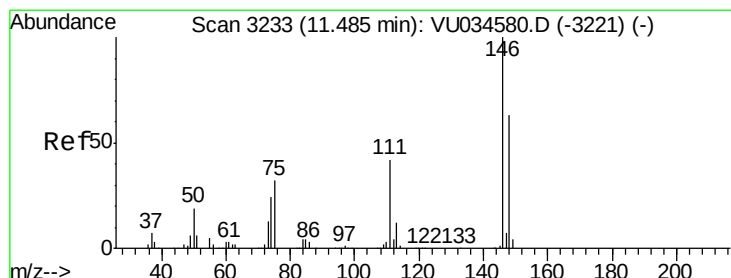
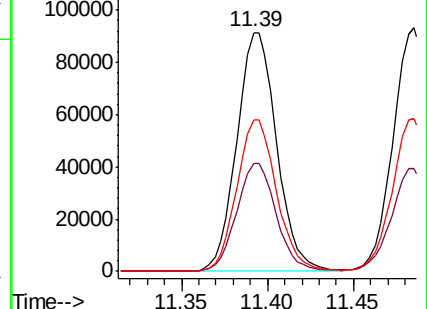
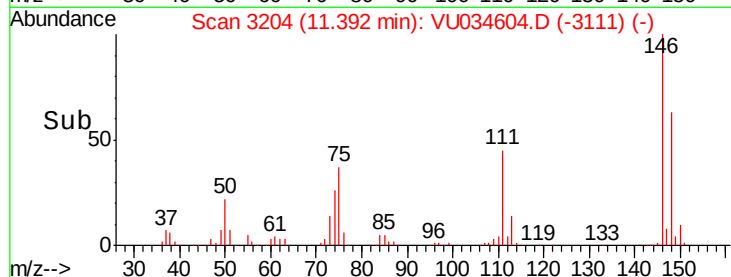
148 63.4 45.5 84.5



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#63

1,4-Dichlorobenzene

Concen: 43.279 ug/L

RT: 11.49 min Scan# 3233

Delta R.T. -0.00 min

Lab File: VU034604.D

Acq: 17 Sep 2019 10:06

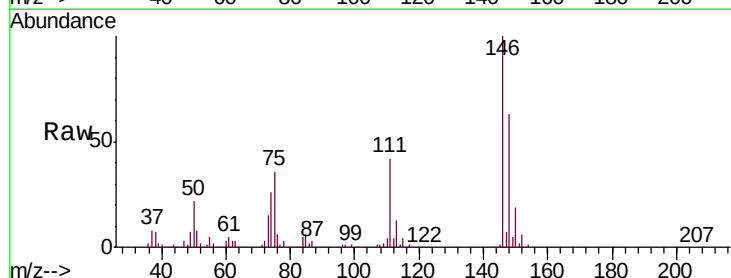
Tgt Ion:146 Resp: 148697

Ion Ratio Lower Upper

146 100

111 42.3 27.6 51.2

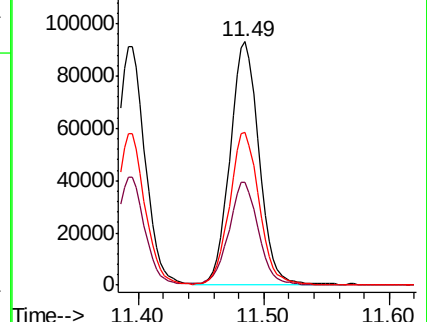
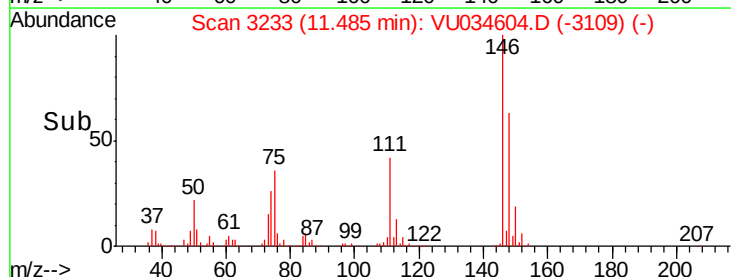
148 62.6 44.0 81.6

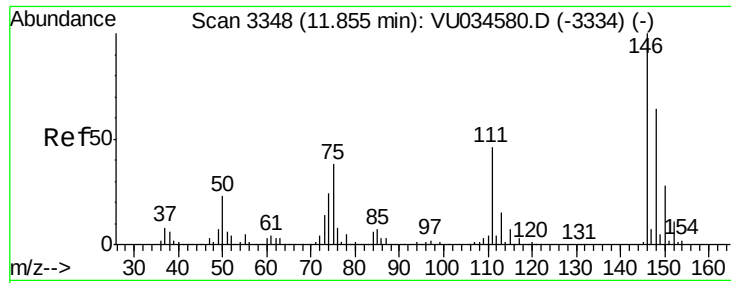


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V

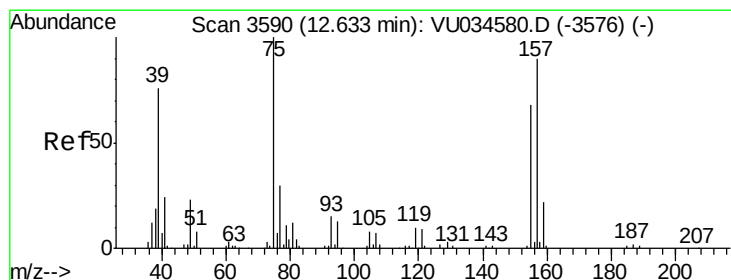
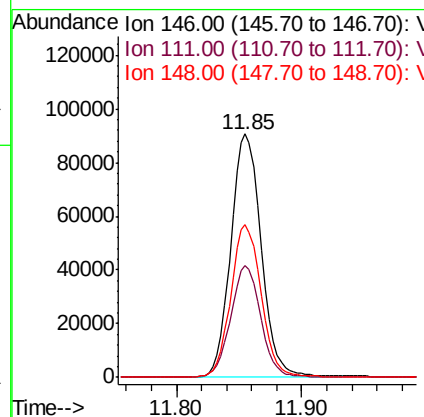
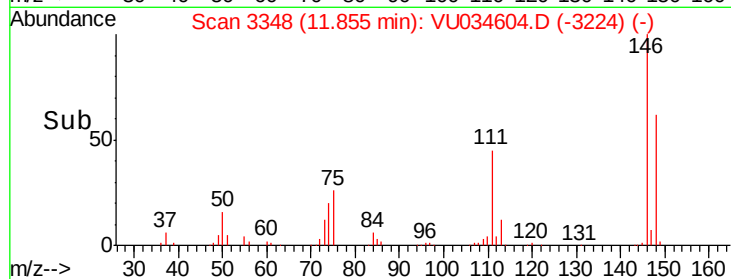
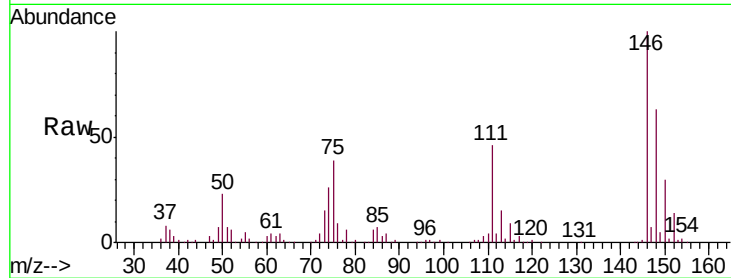




#65
 1,2-Dichlorobenzene
 Concen: 44.553 ug/L
 RT: 11.85 min Scan# 3348
 Delta R.T. -0.00 min
 Lab File: VU034604.D
 Acq: 17 Sep 2019 10:06

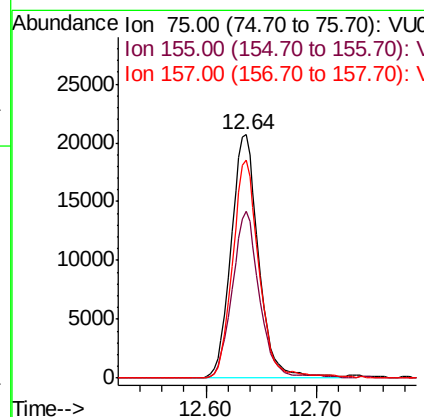
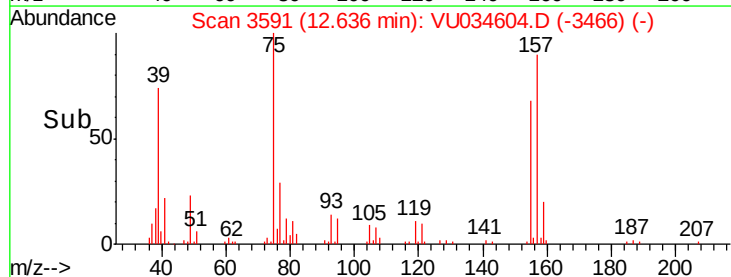
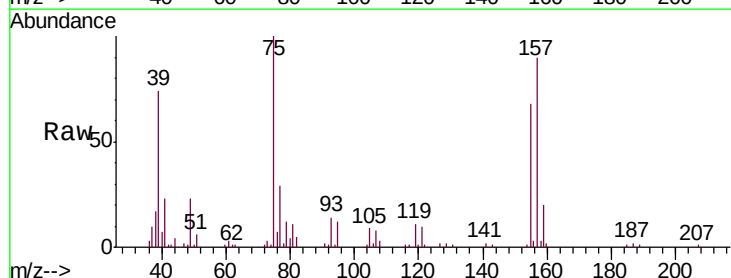
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05056

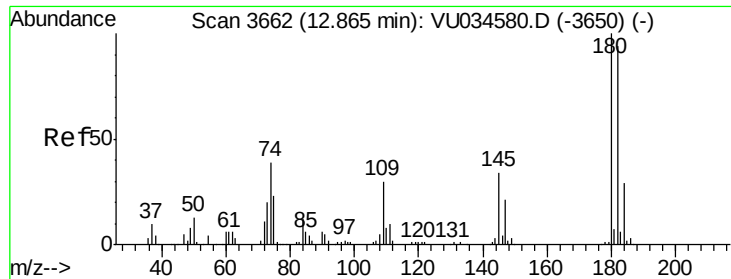
Tgt Ion: 146 Resp: 152914
 Ion Ratio Lower Upper
 146 100
 111 46.1 34.5 51.7
 148 62.6 50.7 76.1



#66
 1,2-Dibromo-3-chloropropane
 Concen: 46.136 ug/L
 RT: 12.64 min Scan# 3591
 Delta R.T. 0.00 min
 Lab File: VU034604.D
 Acq: 17 Sep 2019 10:06

Tgt Ion: 75 Resp: 35875
 Ion Ratio Lower Upper
 75 100
 155 68.5 61.8 92.6
 157 89.7 80.5 120.7

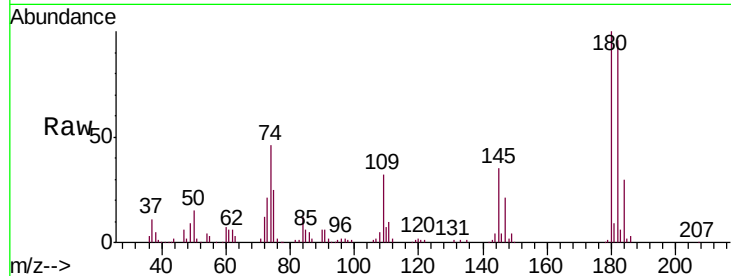




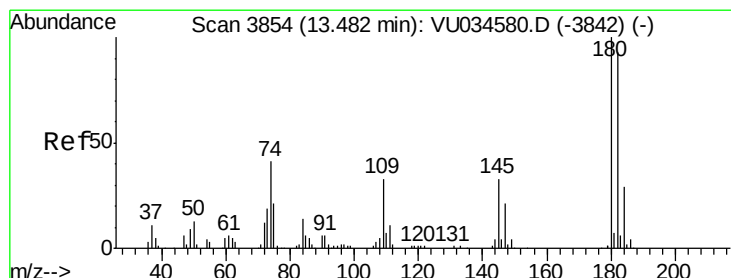
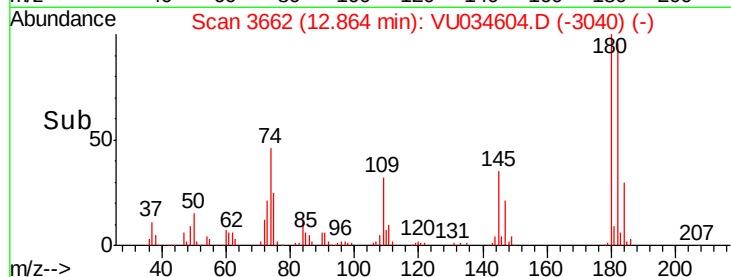
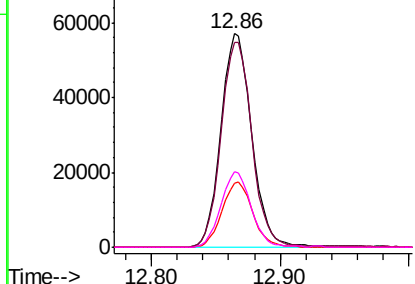
#67
 1,3,5-Trichlorobenzene
 Concen: 42.734 ug/L
 RT: 12.86 min Scan# 3662
 Delta R.T. -0.00 min
 Lab File: VU034604.D
 Acq: 17 Sep 2019 10:06

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05056

Tgt Ion:180 Resp: 94770
 Ion Ratio Lower Upper
 180 100
 182 95.6 77.9 116.9
 184 30.4 24.2 36.4
 145 34.6 25.8 38.6

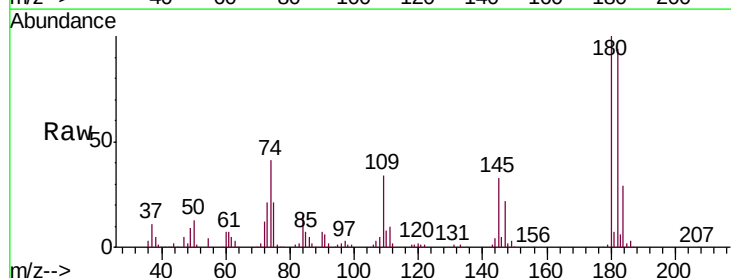


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 184.00 (183.70 to 184.70): V
 Ion 145.00 (144.70 to 145.70): V

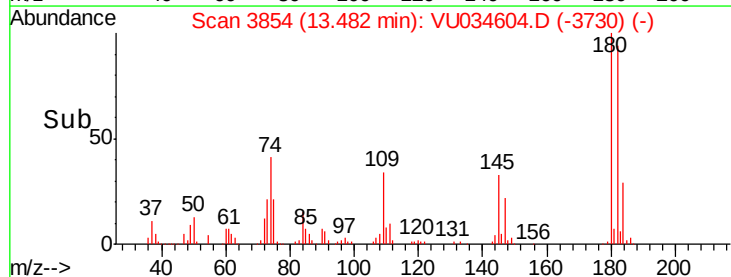
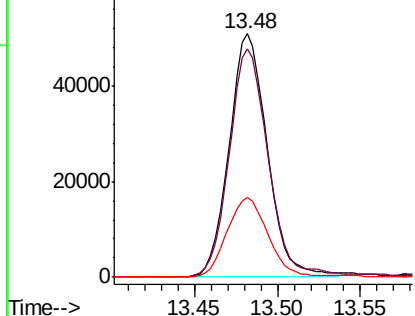


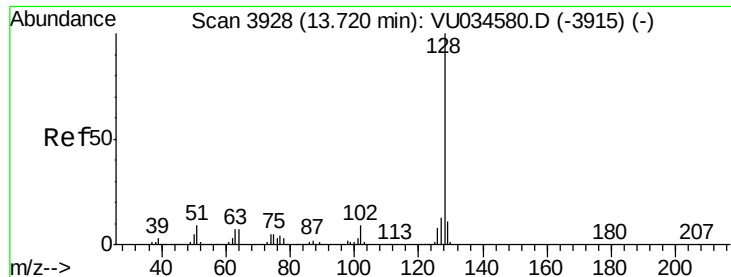
#68
 1,2,4-trichlorobenzene
 Concen: 42.945 ug/L
 RT: 13.48 min Scan# 3854
 Delta R.T. -0.00 min
 Lab File: VU034604.D
 Acq: 17 Sep 2019 10:06

Tgt Ion:180 Resp: 81359
 Ion Ratio Lower Upper
 180 100
 182 95.7 75.7 113.5
 145 35.2 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





#69

Naphthalene

Concen: 44.934 ug/L

RT: 13.72 min Scan# 3928

Delta R.T. -0.00 min

Lab File: VU034604.D

Acq: 17 Sep 2019 10:06

Instrument :

MSVOA_U

ClientSampleId :

VSTD05056

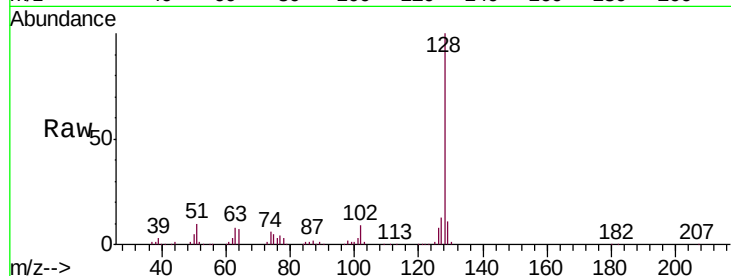
Tgt Ion:128 Resp: 314510

Ion Ratio Lower Upper

128 100

127 13.3 10.0 15.0

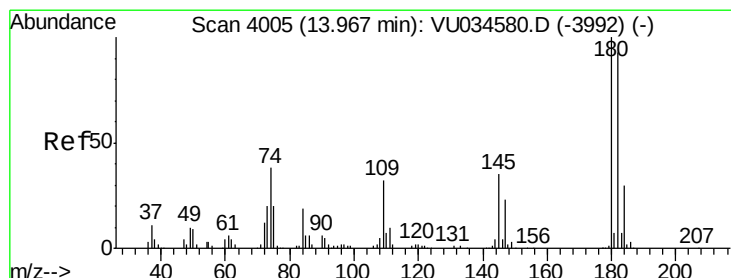
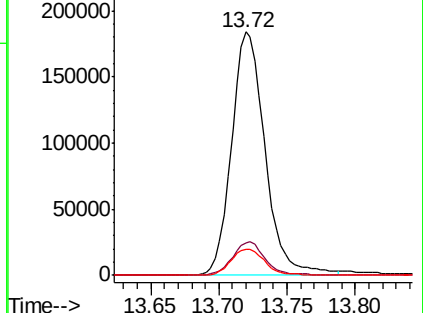
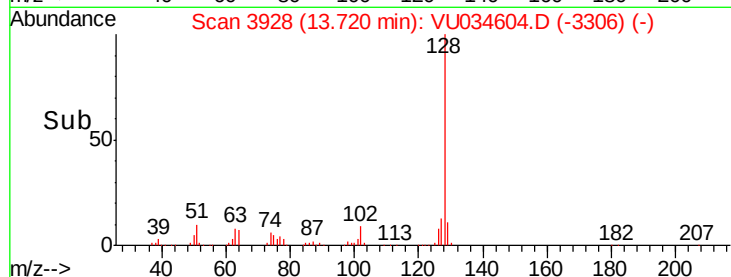
129 10.9 8.6 12.8



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: 42.529 ug/L

RT: 13.97 min Scan# 4005

Delta R.T. -0.00 min

Lab File: VU034604.D

Acq: 17 Sep 2019 10:06

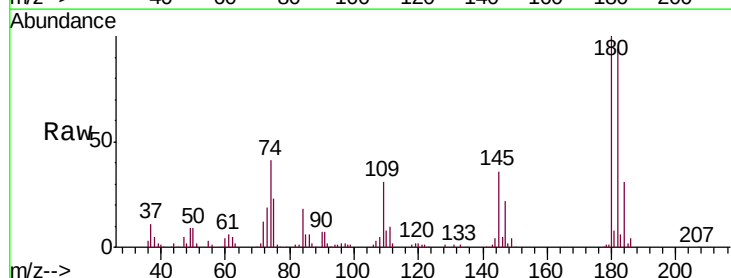
Tgt Ion:180 Resp: 82484

Ion Ratio Lower Upper

180 100

182 95.0 77.1 115.7

145 35.4 27.4 41.0



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

