

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU081319\
 Data File : VU033789.D
 Acq On : 13 Aug 2019 19:06
 Operator : JC/SP
 Sample : VSTDCCC050EC
 Misc : 5.0mL/MSVOA_U/WATER
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05042

Quant Time: Aug 14 04:28:42 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SFAMULM081319W.M
 Quant Title : VOC Analysis
 QLast Update : Wed Aug 14 04:23:45 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.86	114	414715	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.07	117	408642	50.00	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.47	152	224127	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.39	65	171067	43.43	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	86.86%
7) Chloroethane-d5	1.67	69	141294	38.52	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	77.04%
11) 1,1-Dichloroethene-d2	2.26	63	287940	44.76	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	89.52%
21) 2-Butanone-d5	4.15	46	213612	97.48	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	97.48%
24) Chloroform-d	4.62	84	281686	45.79	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	91.58%
26) 1,2-Dichloroethane-d4	5.28	65	178087	46.77	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	93.54%
32) Benzene-d6	5.32	84	555017	47.41	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	94.82%
36) 1,2-Dichloropropane-d6	6.31	67	177519	46.92	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	93.84%
41) Toluene-d8	7.54	98	518167	47.46	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	94.92%
43) trans-1,3-Dichloropropene-	7.83	79	84896	47.02	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	94.04%
47) 2-Hexanone-d5	8.29	63	156276	103.23	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	103.23%
56) 1,1,2,2-Tetrachloroethane-	10.41	84	258739	47.92	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	95.84%
66) 1,2-Dichlorobenzene-d4	11.84	152	210805	46.56	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	93.12%

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	1.20	85	188065	45.492 ug/L	99
3) Chloromethane	1.32	50	201568	46.962 ug/L	99
5) Vinyl chloride	1.39	62	218755	47.066 ug/L	98
6) Bromomethane	1.61	94	130443	38.236 ug/L	97
8) Chloroethane	1.68	64	130013	39.140 ug/L	98
9) Trichlorofluoromethane	1.87	101	279445	46.792 ug/L	99
10) 1,1,2-Trichloro-1,2,2-trif	2.27	101	136061	46.549 ug/L	98
12) 1,1-Dichloroethene	2.27	96	133077	46.273 ug/L	97
13) Acetone	2.30	43	158351	79.342 ug/L	100
14) Carbon disulfide	2.46	76	417804	45.889 ug/L	99
15) Methyl Acetate	2.60	43	157124	47.097 ug/L	99
16) Methylene chloride	2.68	84	155474	47.352 ug/L	98
17) trans-1,2-Dichloroethene	2.96	96	138654	46.327 ug/L	99
18) Methyl tert-butyl Ether	2.98	73	434029	48.785 ug/L	100
19) 1,1-Dichloroethane	3.42	63	272158	47.326 ug/L	99
20) cis-1,2-Dichloroethene	4.20	96	156409	47.591 ug/L	99
22) 2-Butanone	4.23	43	223009	91.979 ug/L	99

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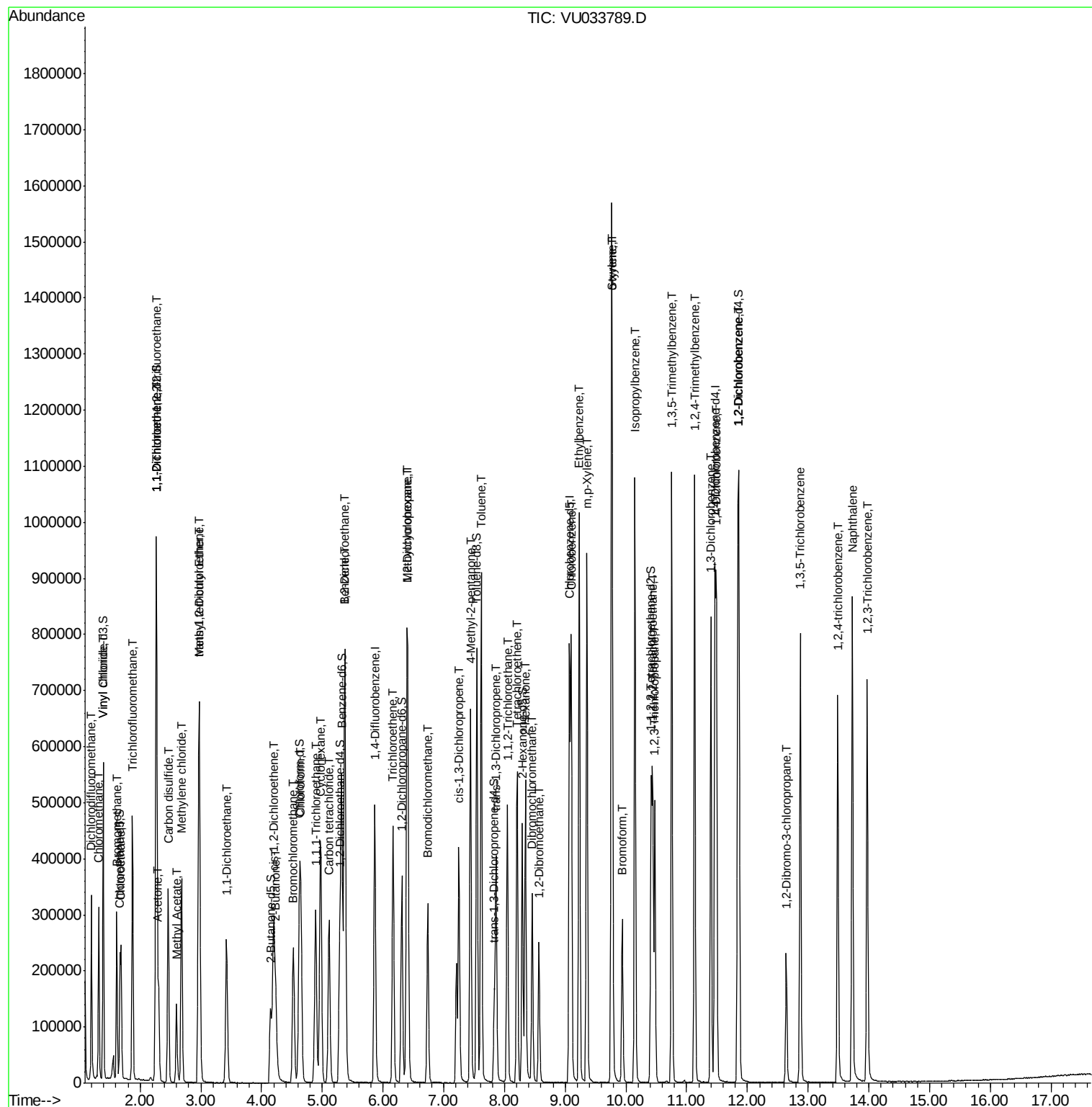
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	4.52	128	83702	49.150	ug/L	97
25) Chloroform	4.65	83	277302	46.397	ug/L	99
27) 1,2-Dichloroethane	5.38	62	221147	47.633	ug/L	99
29) Cyclohexane	4.97	56	224721	50.034	ug/L	99
30) 1,1,1-Trichloroethane	4.89	97	237291	47.343	ug/L	99
31) Carbon tetrachloride	5.11	117	210283	47.238	ug/L	99
33) Benzene	5.37	78	608875	48.701	ug/L	100
34) Trichloroethene	6.16	95	156450	47.235	ug/L	99
35) Methylcyclohexane	6.40	83	236041	48.895	ug/L	99
37) 1,2-Dichloropropane	6.41	63	166341	48.828	ug/L	99
38) Bromodichloromethane	6.74	83	207789	47.270	ug/L	99
39) cis-1,3-Dichloropropene	7.25	75	249814	49.677	ug/L	99
40) 4-Methyl-2-pentanone	7.44	43	419967	99.080	ug/L	100
42) Toluene	7.62	91	656088	49.687	ug/L	100
44) trans-1,3-Dichloropropene	7.86	75	225556	49.243	ug/L	99
45) 1,1,2-Trichloroethane	8.05	97	154469	48.044	ug/L	98
46) Tetrachloroethene	8.21	164	124052	47.755	ug/L	99
48) 2-Hexanone	8.34	43	330863	101.978	ug/L	100
49) Dibromochloromethane	8.46	129	169369	47.185	ug/L	98
50) 1,2-Dibromoethane	8.57	107	165397	49.038	ug/L	100
51) Chlorobenzene	9.10	112	413058	48.067	ug/L	99
52) Ethylbenzene	9.23	91	696276	50.112	ug/L	100
53) m,p-Xylene	9.36	106	270799	52.138	ug/L	94
54) o-xylene	9.76	106	259103	50.708	ug/L	98
55) Styrene	9.77	104	454618	52.412	ug/L	100
57) 1,1,2,2-Tetrachloroethane	10.44	83	260397	48.424	ug/L	100
59) Bromoform	9.94	173	127027	44.362	ug/L	99
60) 1,2,3-Trichloropropane	10.48	75	203838	45.200	ug/L	100
61) Isopropylbenzene	10.15	105	680024	49.009	ug/L	99
62) 1,3,5-Trimethylbenzene	10.76	105	566317	50.557	ug/L	99
63) 1,2,4-Trimethylbenzene	11.13	105	564835	50.819	ug/L	100
64) 1,3-Dichlorobenzene	11.40	146	331419	47.612	ug/L	99
65) 1,4-Dichlorobenzene	11.49	146	338828	47.492	ug/L	99
67) 1,2-Dichlorobenzene	11.86	146	336138	47.520	ug/L	99
68) 1,2-Dibromo-3-chloropropan	12.64	75	59177	47.053	ug/L	99
69) 1,3,5-Trichlorobenzene	12.87	180	251904	47.910	ug/L	100
70) 1,2,4-trichlorobenzene	13.49	180	219371	50.305	ug/L	99
71) Naphthalene	13.73	128	684352	52.720	ug/L	99
72) 1,2,3-Trichlorobenzene	13.97	180	233464	51.072	ug/L	99

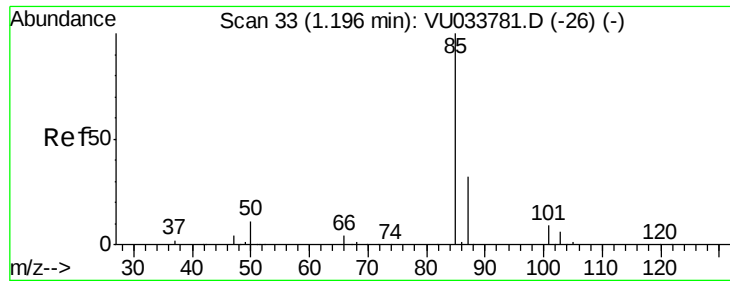
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#2

Dichlorodifluoromethane

Concen: 45.492 ug/L

RT: 1.20 min Scan# 33

Delta R.T. 0.00 min

Lab File: VU033789.D

Acq: 13 Aug 2019 19:06

Instrument :

MSVOA_U

ClientSampleId :

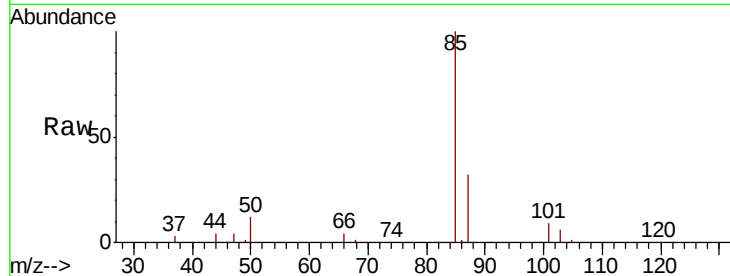
VSTD05042

Tgt Ion: 85 Resp: 188065

Ion Ratio Lower Upper

85 100

87 32.7 26.4 39.6



Abundance Ion 85.00 (84.70 to 85.70): VU033789.D (-26) (-)

Ion 87.00 (86.70 to 87.70): VU033789.D (-26) (-)

1.20

200000

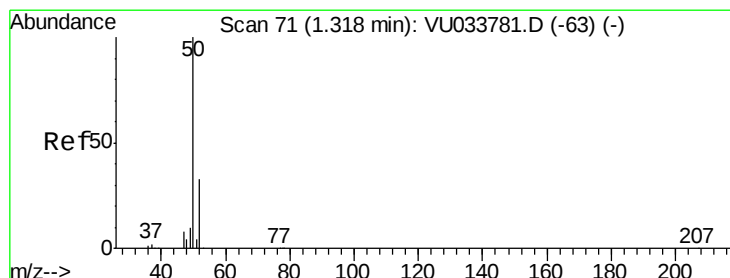
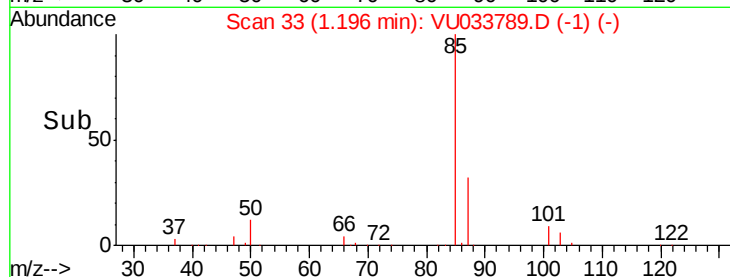
150000

100000

50000

0

Time-->



#3

Chloromethane

Concen: 46.962 ug/L

RT: 1.32 min Scan# 71

Delta R.T. 0.00 min

Lab File: VU033789.D

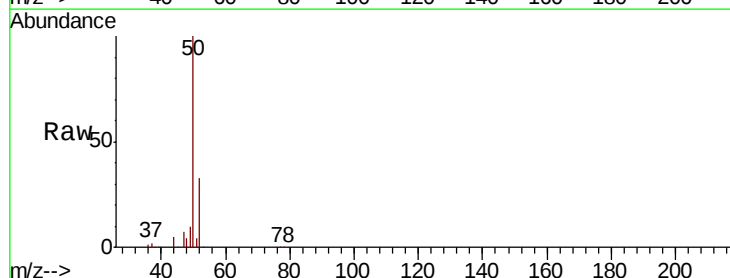
Acq: 13 Aug 2019 19:06

Tgt Ion: 50 Resp: 201568

Ion Ratio Lower Upper

50 100

52 32.9 23.5 43.7



Abundance Ion 50.00 (49.70 to 50.70): VU033789.D (-1) (-)

Ion 52.00 (51.70 to 52.70): VU033789.D (-1) (-)

1.32

200000

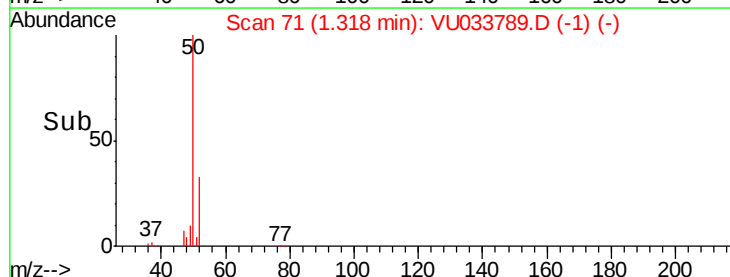
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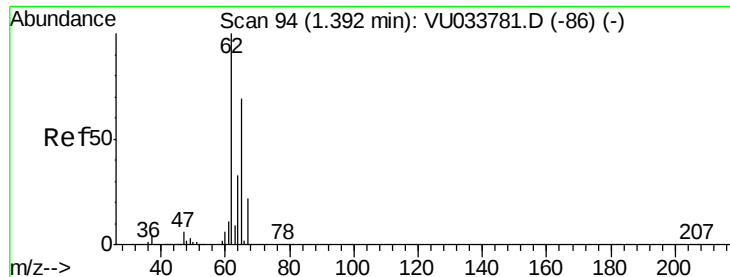
100000

50000

0

Time-->





#5

Vinyl chloride

Concen: 47.066 ug/L

RT: 1.39 min Scan# 94

Delta R.T. 0.00 min

Lab File: VU033789.D

Acq: 13 Aug 2019 19:06

Instrument :

MSVOA_U

ClientSampleId :

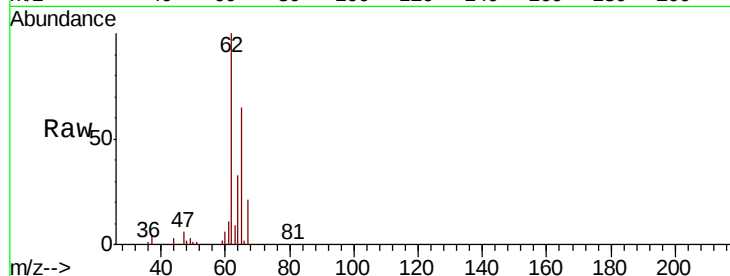
VSTD05042

Tgt Ion: 62 Resp: 218755

Ion Ratio Lower Upper

62 100

64 32.9 22.3 41.5



Abundance Ion 62.00 (61.70 to 62.70): VU033789.D (-1) (-)

Ion 64.00 (63.70 to 64.70): VU033789.D (-1) (-)

250000

200000

150000

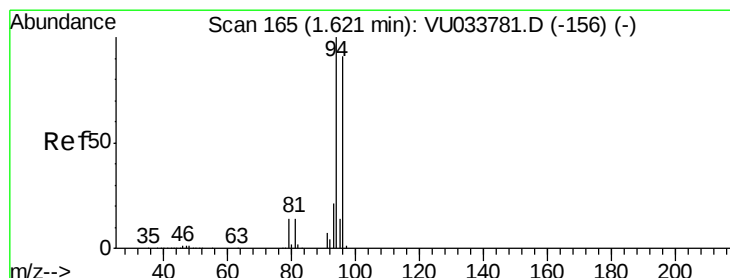
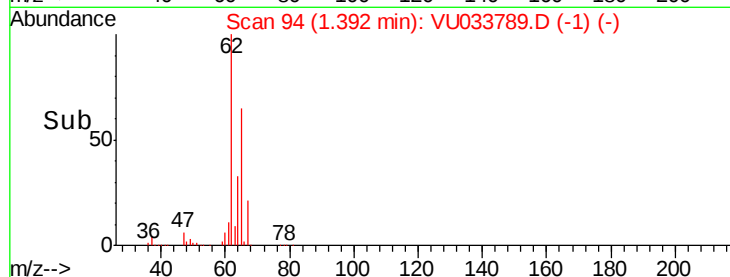
100000

50000

0

1.35 1.40 1.45

Time-->



#6

Bromomethane

Concen: 38.236 ug/L

RT: 1.61 min Scan# 163

Delta R.T. -0.01 min

Lab File: VU033789.D

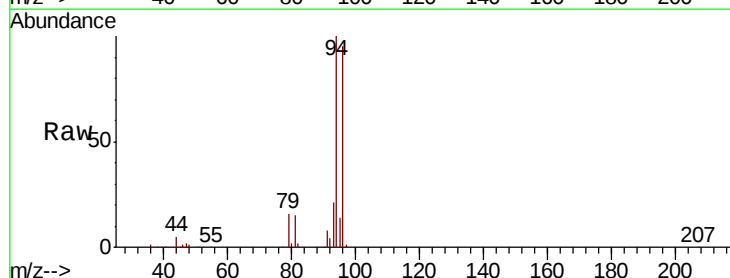
Acq: 13 Aug 2019 19:06

Tgt Ion: 94 Resp: 130443

Ion Ratio Lower Upper

94 100

96 95.2 64.5 119.7



Abundance Ion 94.00 (93.70 to 94.70): VU033789.D (-72) (-)

Ion 96.00 (95.70 to 96.70): VU033789.D (-72) (-)

120000

100000

80000

60000

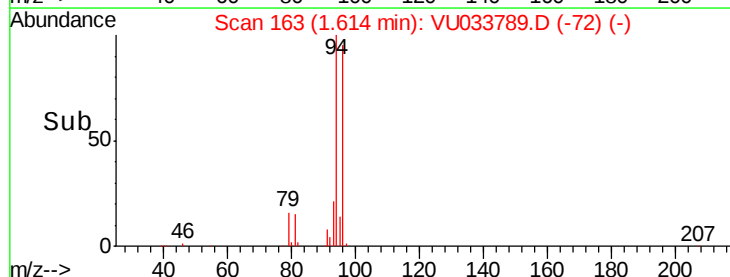
40000

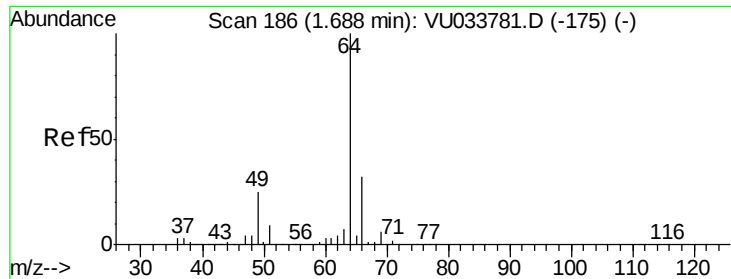
20000

0

1.55 1.60 1.65 1.70

Time-->

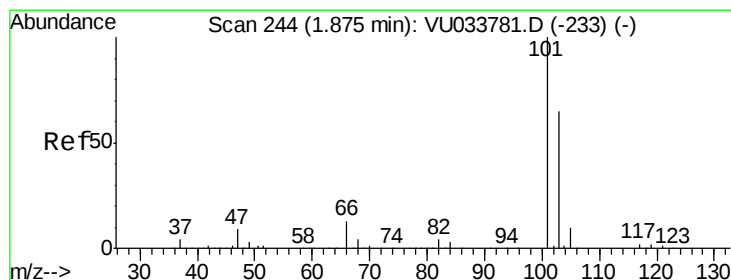
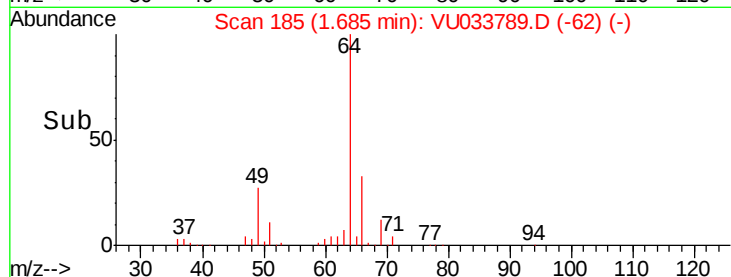
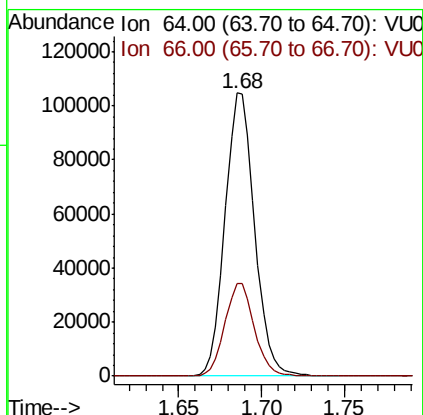
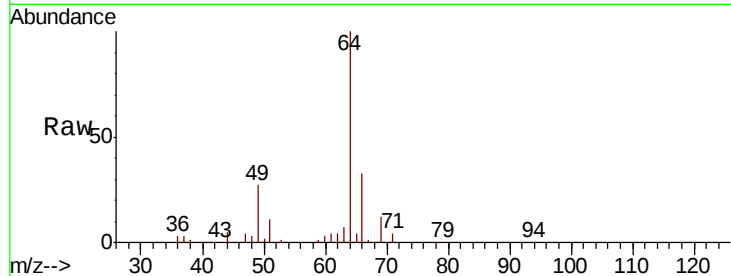




#8
Chloroethane
Concen: 39.140 ug/L
RT: 1.68 min Scan# 185
Delta R.T. -0.00 min
Lab File: VU033789.D
Acq: 13 Aug 2019 19:06

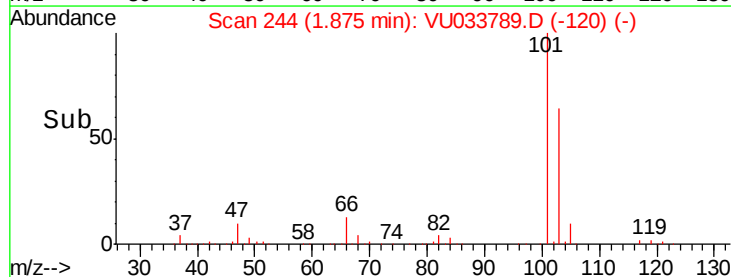
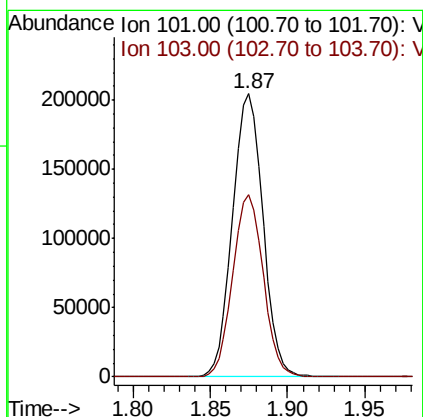
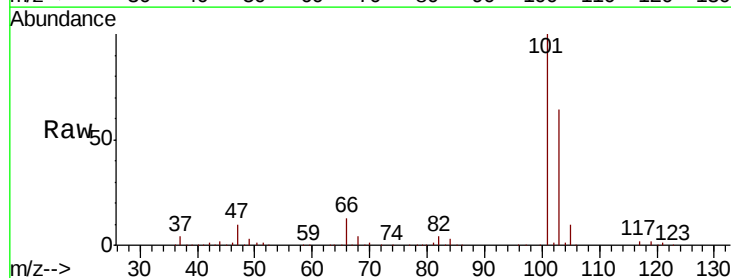
Instrument :
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VSTD05042

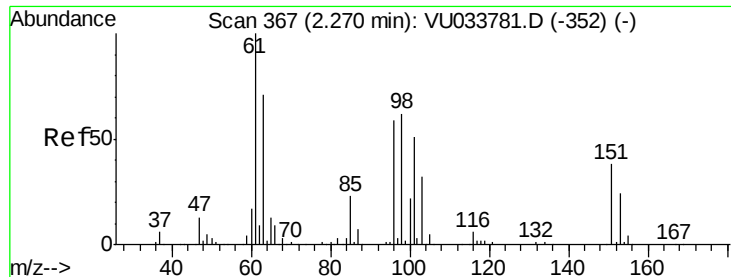
Tgt Ion: 64 Resp: 130013
Ion Ratio Lower Upper
64 100
66 32.7 21.9 40.7



#9
Trichlorofluoromethane
Concen: 46.792 ug/L
RT: 1.87 min Scan# 244
Delta R.T. 0.00 min
Lab File: VU033789.D
Acq: 13 Aug 2019 19:06

Tgt Ion: 101 Resp: 279445
Ion Ratio Lower Upper
101 100
103 64.5 52.2 78.4





#10

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

Concen: 46.549 ug/L

RT: 2.27 min Scan# 368

Delta R.T. 0.00 min

Lab File: VU033789.D

Acq: 13 Aug 2019 19:06

Instrument :

MSVOA_U

ClientSampleId :

VSTD05042

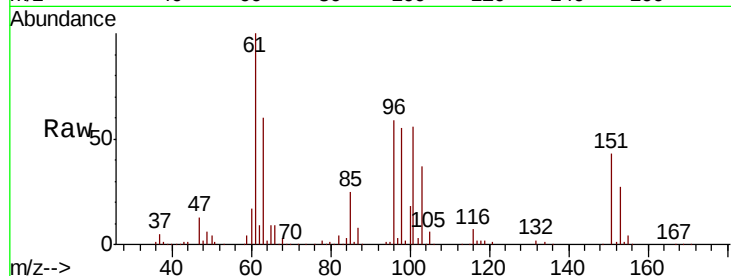
Tgt Ion: 101 Resp: 136061

Ion Ratio Lower Upper

101 100

85 43.9 35.2 52.8

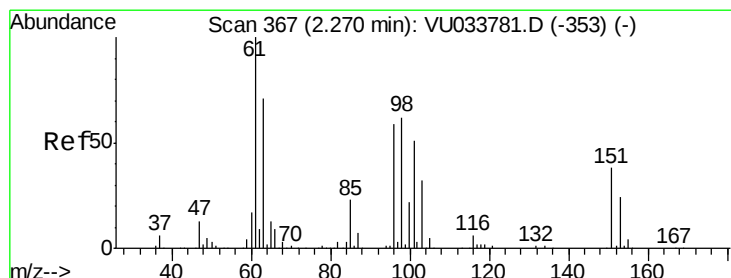
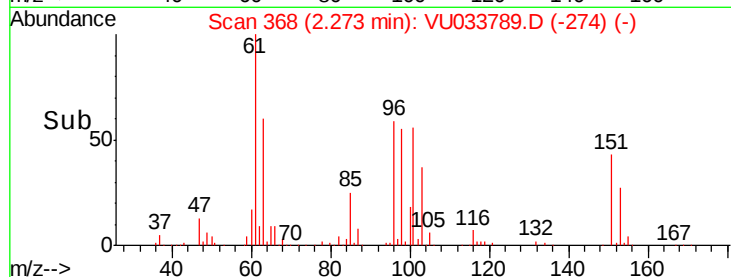
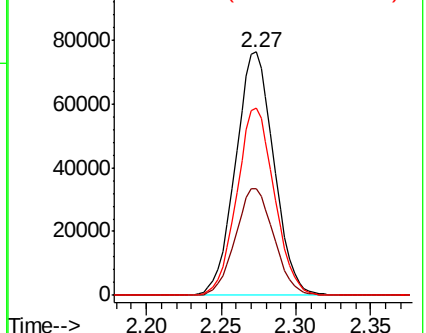
151 75.3 58.5 87.7



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: 46.273 ug/L

RT: 2.27 min Scan# 367

Delta R.T. 0.00 min

Lab File: VU033789.D

Acq: 13 Aug 2019 19:06

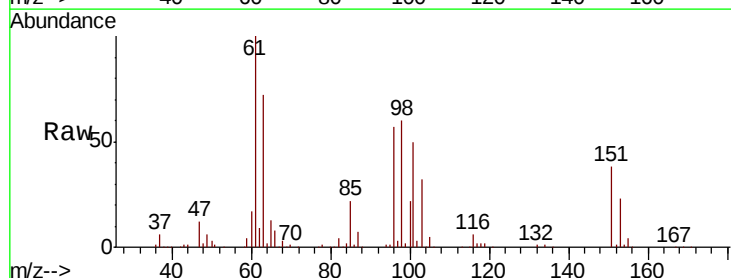
Tgt Ion: 96 Resp: 133077

Ion Ratio Lower Upper

96 100

61 174.9 121.5 225.7

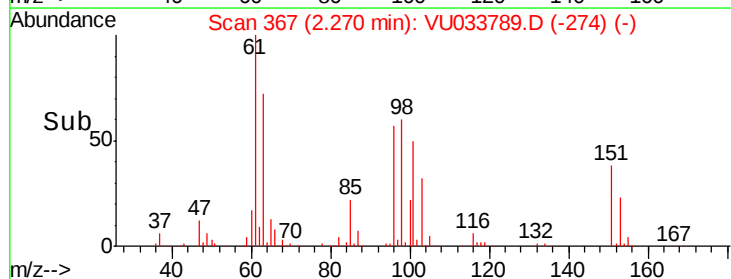
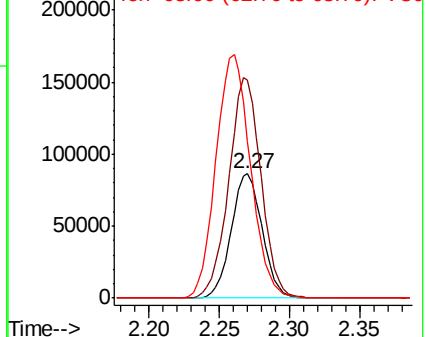
63 126.2 92.9 172.5

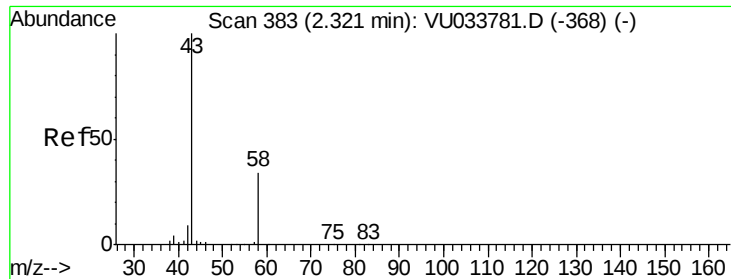


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 79.342 ug/L

RT: 2.30 min Scan# 377

Delta R.T. -0.02 min

Lab File: VU033789.D

Acq: 13 Aug 2019 19:06

Instrument :

MSVOA_U

ClientSampled :

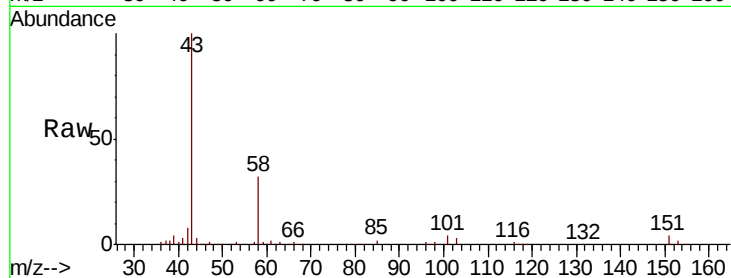
VSTD05042

Tgt Ion: 43 Resp: 158351

Ion Ratio Lower Upper

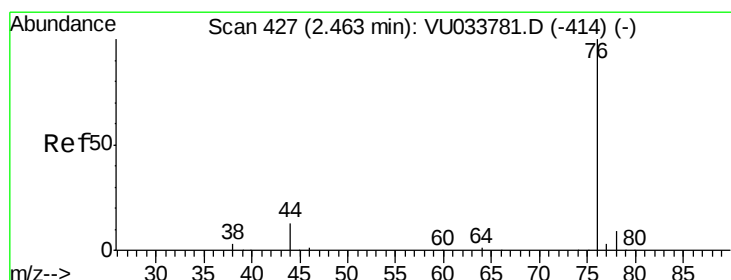
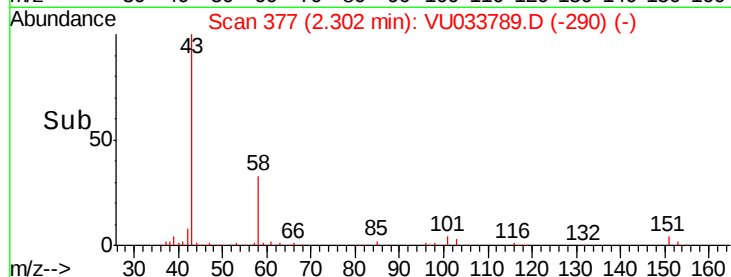
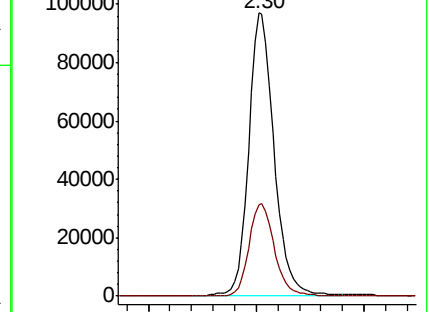
43 100

58 33.0 0.0 65.8



Abundance Ion 43.00 (42.70 to 43.70): VU033789.D (-377) (-)

Ion 58.00 (57.70 to 58.70): VU033789.D (-377) (-)



#14

Carbon disulfide

Concen: 45.889 ug/L

RT: 2.46 min Scan# 427

Delta R.T. 0.00 min

Lab File: VU033789.D

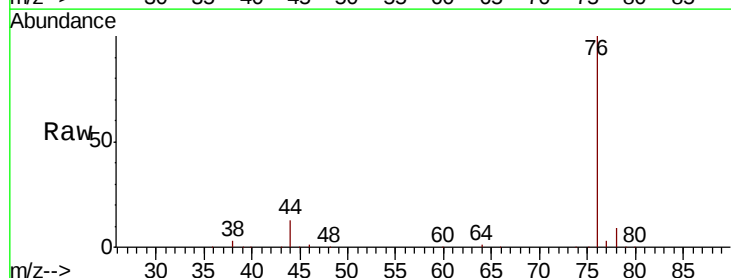
Acq: 13 Aug 2019 19:06

Tgt Ion: 76 Resp: 417804

Ion Ratio Lower Upper

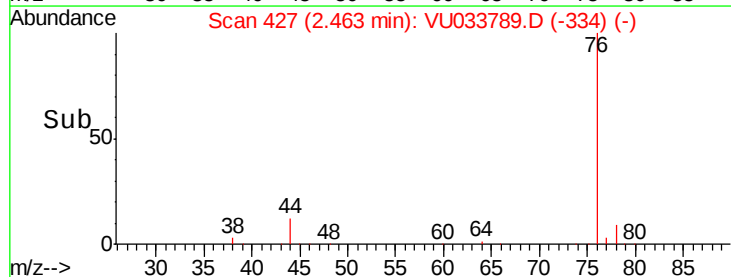
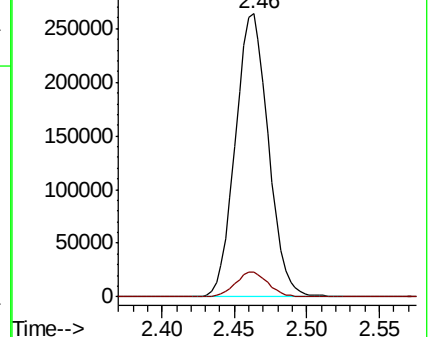
76 100

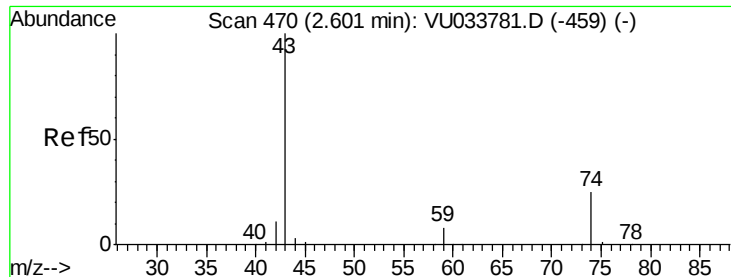
78 8.9 7.3 10.9



Abundance Ion 76.00 (75.70 to 76.70): VU033789.D (-427) (-)

Ion 78.00 (77.70 to 78.70): VU033789.D (-427) (-)





#15

Methyl Acetate

Concen: 47.097 ug/L

RT: 2.60 min Scan# 469

Delta R.T. -0.00 min

Lab File: VU033789.D

Acq: 13 Aug 2019 19:06

Instrument :

MSVOA_U

ClientSampleId :

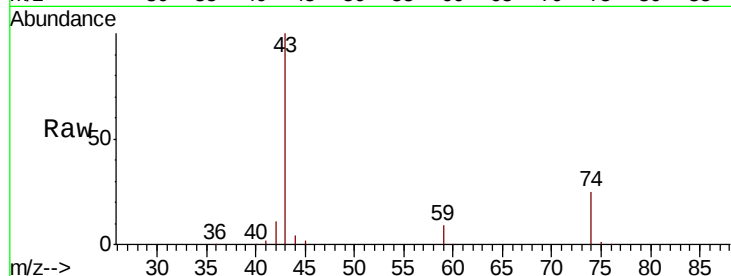
VSTD05042

Tgt Ion: 43 Resp: 157124

Ion Ratio Lower Upper

43 100

74 24.9 20.3 30.5



Abundance Ion 43.00 (42.70 to 43.70): VU033789.D (-459) (-)

Ion 74.00 (73.70 to 74.70): VU033789.D (-459) (-)

2.60

80000

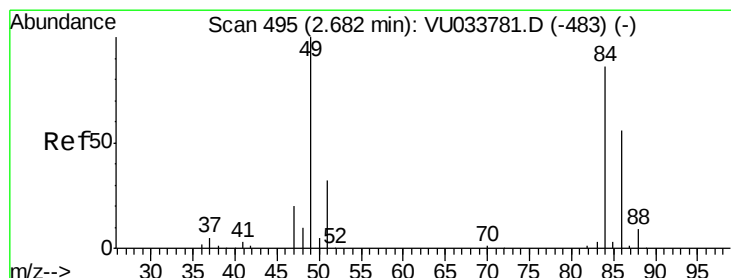
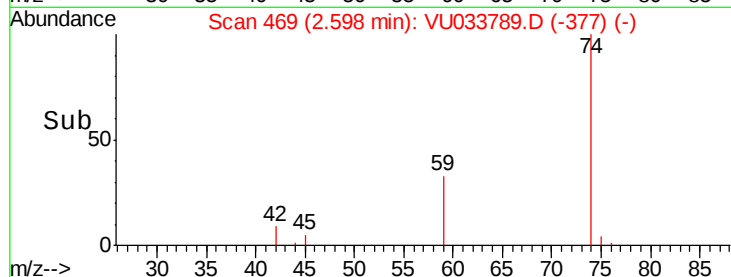
60000

40000

20000

0

Time--> 2.50 2.55 2.60 2.65 2.70



#16

Methylene chloride

Concen: 47.352 ug/L

RT: 2.68 min Scan# 495

Delta R.T. 0.00 min

Lab File: VU033789.D

Acq: 13 Aug 2019 19:06

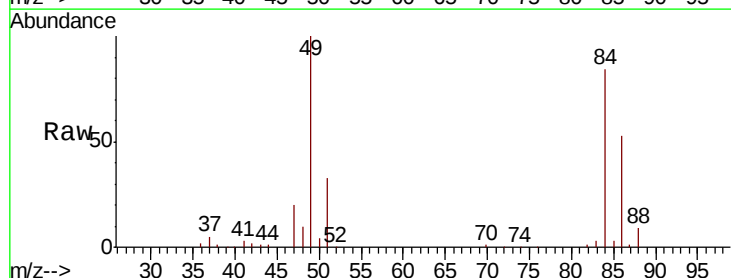
Tgt Ion: 84 Resp: 155474

Ion Ratio Lower Upper

84 100

86 62.9 45.4 84.4

49 118.6 84.9 157.7



Abundance Ion 84.00 (83.70 to 84.70): VU033789.D (-402) (-)

Ion 86.00 (85.70 to 86.70): VU033789.D (-402) (-)

Ion 49.00 (48.70 to 49.70): VU033789.D (-402) (-)

2.68

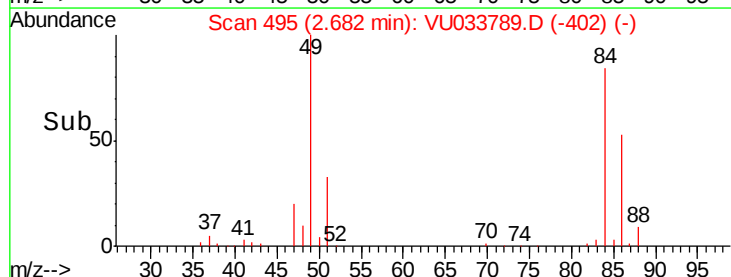
150000

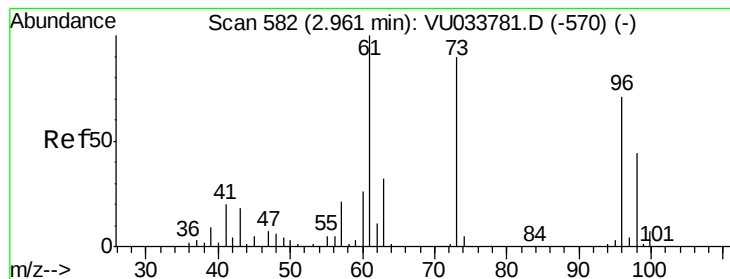
100000

50000

0

Time--> 2.60 2.65 2.70 2.75





#17

trans-1,2-Dichloroethene

Concen: 46.327 ug/L

RT: 2.96 min Scan# 583

Delta R.T. 0.00 min

Lab File: VU033789.D

Acq: 13 Aug 2019 19:06

Instrument :

MSVOA_U

ClientSampleId :

VSTD05042

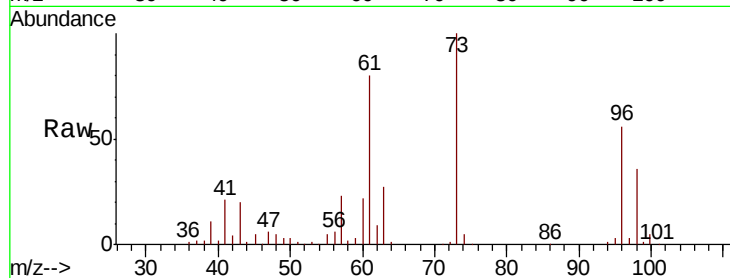
Tgt Ion: 96 Resp: 138654

Ion Ratio Lower Upper

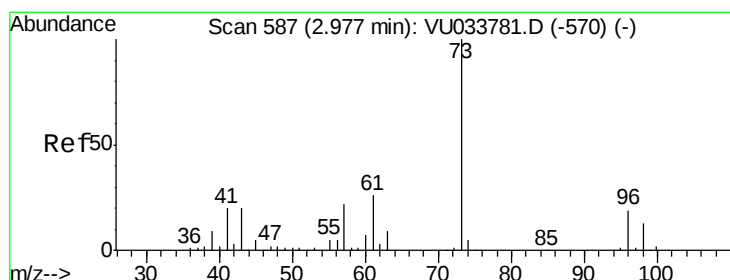
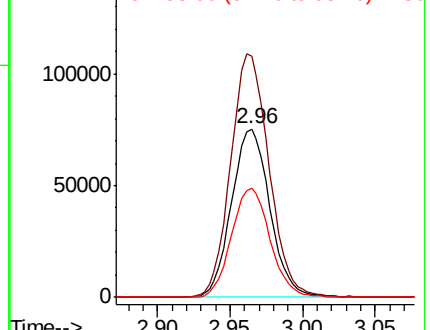
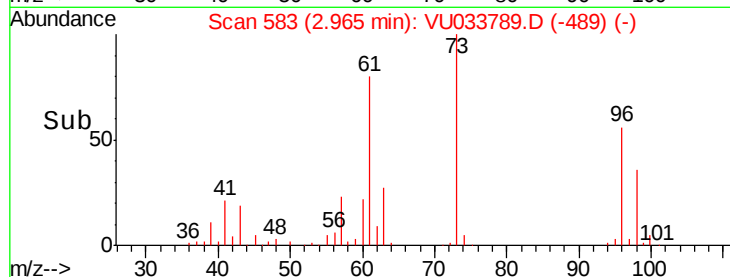
96 100

61 143.1 98.8 183.6

98 64.4 44.6 82.8



Abundance Ion 96.00 (95.70 to 96.70): VU033789.D (-489) (-)



#18

Methyl tert-butyl Ether

Concen: 48.785 ug/L

RT: 2.98 min Scan# 587

Delta R.T. 0.00 min

Lab File: VU033789.D

Acq: 13 Aug 2019 19:06

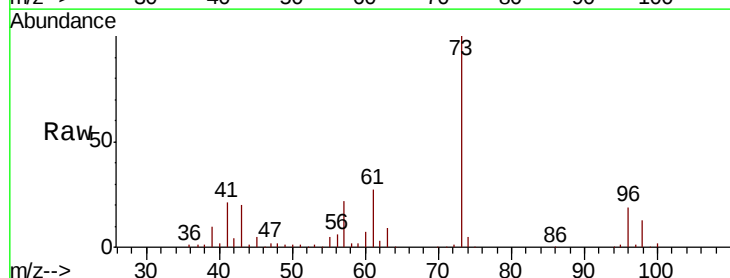
Tgt Ion: 73 Resp: 434029

Ion Ratio Lower Upper

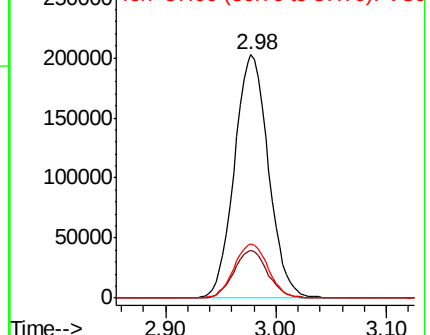
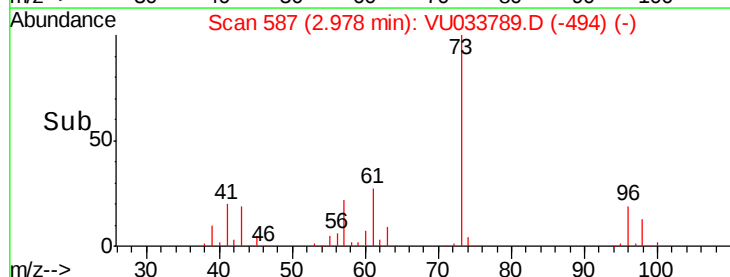
73 100

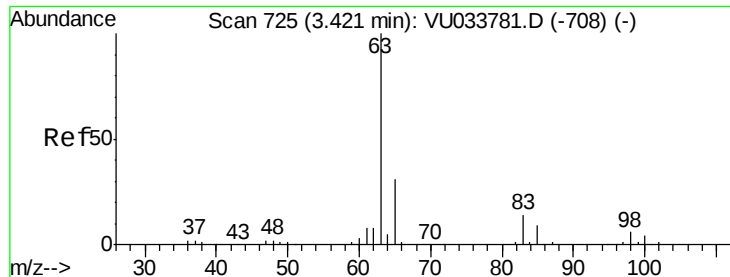
43 19.5 15.4 23.2

57 22.4 17.9 26.9



Abundance Ion 73.00 (72.70 to 73.70): VU033789.D (-494) (-)

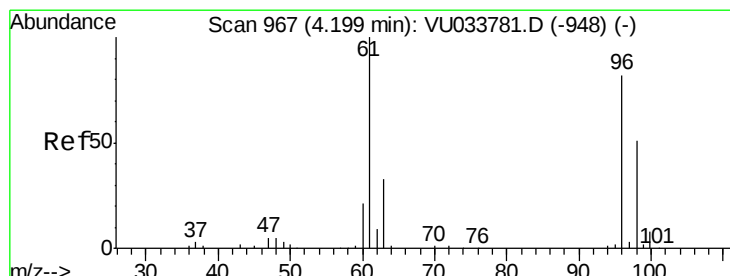
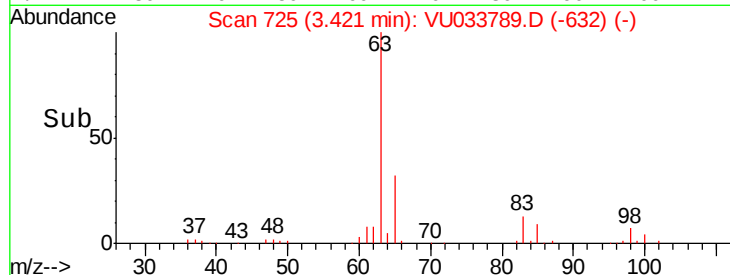
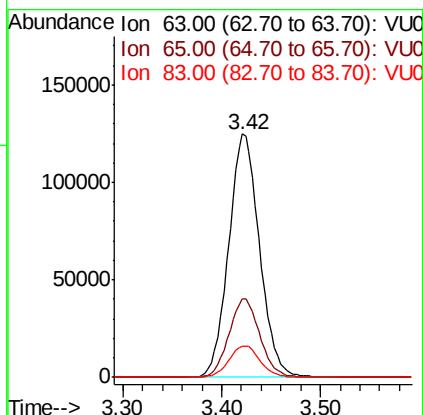
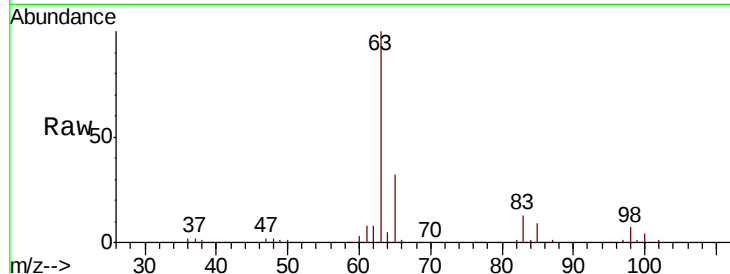




#19
 1,1-Dichloroethane
 Concen: 47.326 ug/L
 RT: 3.42 min Scan# 725
 Delta R.T. 0.00 min
 Lab File: VU033789.D
 Acq: 13 Aug 2019 19:06

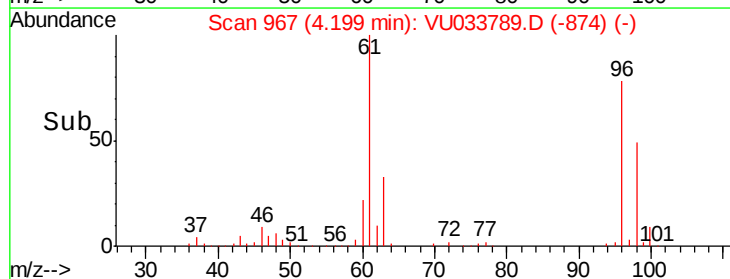
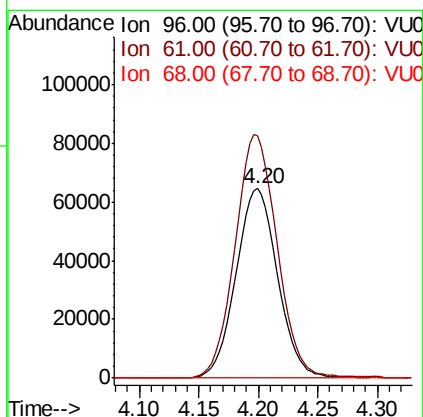
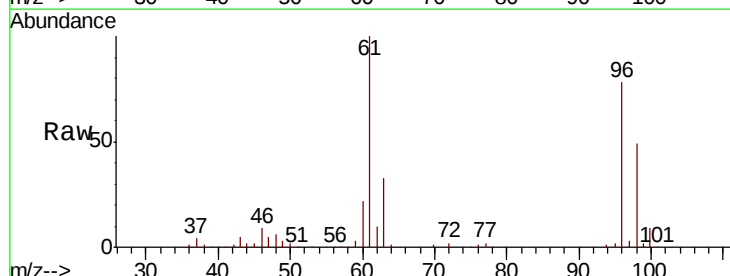
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05042

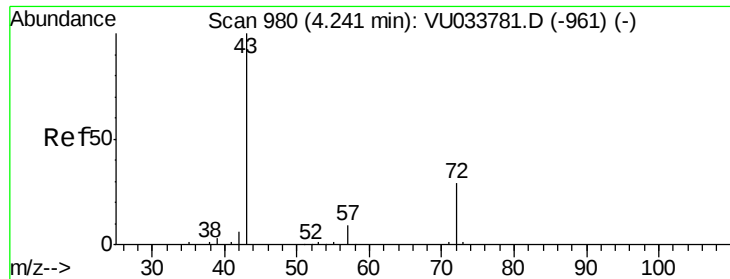
Tgt Ion: 63 Resp: 272158
 Ion Ratio Lower Upper
 63 100
 65 32.1 22.8 42.4
 83 12.9 9.5 17.7



#20
 cis-1,2-Dichloroethene
 Concen: 47.591 ug/L
 RT: 4.20 min Scan# 967
 Delta R.T. 0.00 min
 Lab File: VU033789.D
 Acq: 13 Aug 2019 19:06

Tgt Ion: 96 Resp: 156409
 Ion Ratio Lower Upper
 96 100
 61 127.5 88.3 163.9
 68 0.0 0.0 0.0





#22

2-Butanone

Concen: 91.979 ug/L

RT: 4.23 min Scan# 977

Delta R.T. -0.01 min

Lab File: VU033789.D

Acq: 13 Aug 2019 19:06

Instrument :

MSVOA_U

ClientSampleId :

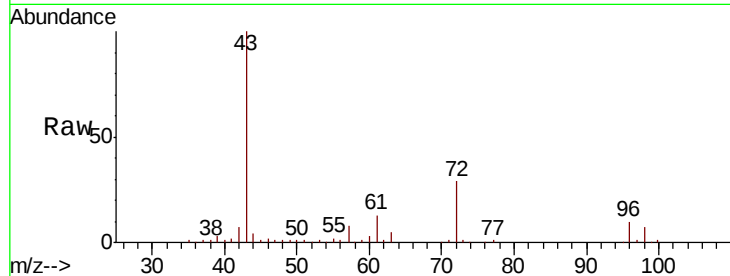
VSTD05042

Tgt Ion: 43 Resp: 223009

Ion Ratio Lower Upper

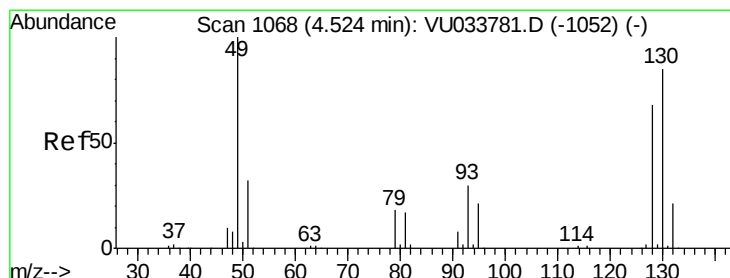
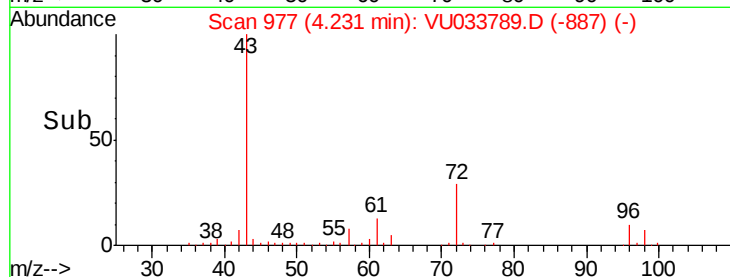
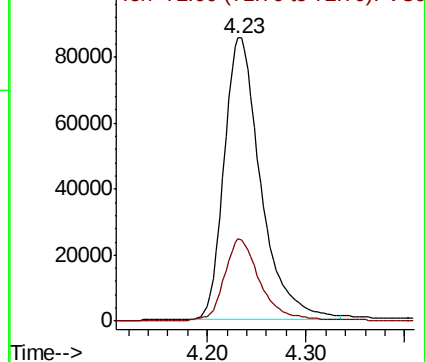
43 100

72 28.3 14.5 43.5



Abundance Ion 43.00 (42.70 to 43.70): VU033789.D (-961) (-)

Ion 72.00 (71.70 to 72.70): VU033789.D (-961) (-)



#23

Bromochloromethane

Concen: 49.150 ug/L

RT: 4.52 min Scan# 1067

Delta R.T. -0.00 min

Lab File: VU033789.D

Acq: 13 Aug 2019 19:06

Tgt Ion: 128 Resp: 83702

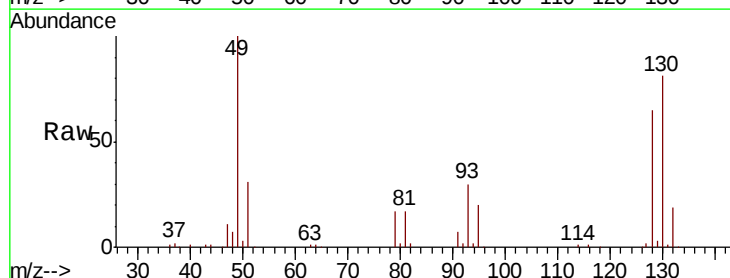
Ion Ratio Lower Upper

128 100

49 153.4 108.1 200.7

130 124.6 91.8 170.6

51 47.8 40.6 61.0

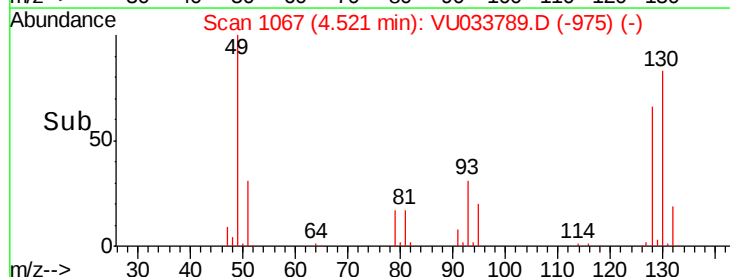
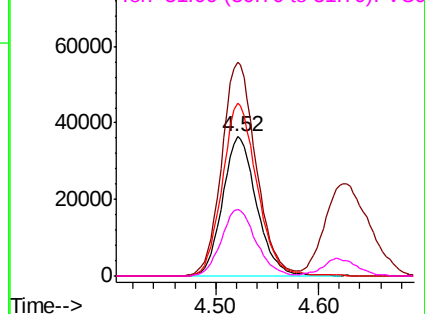


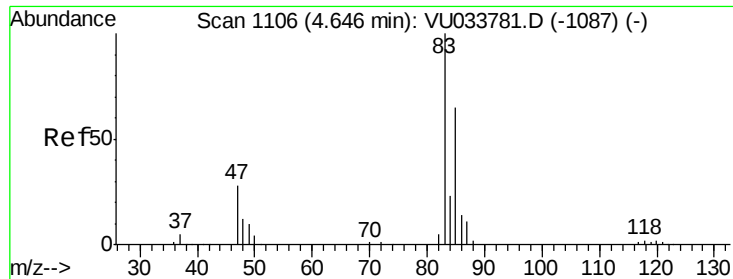
Abundance Ion 128.00 (127.70 to 128.70): VU033789.D (-1052) (-)

Ion 49.00 (48.70 to 49.70): VU033789.D (-1052) (-)

Ion 130.00 (129.70 to 130.70): VU033789.D (-1052) (-)

Ion 51.00 (50.70 to 51.70): VU033789.D (-1052) (-)

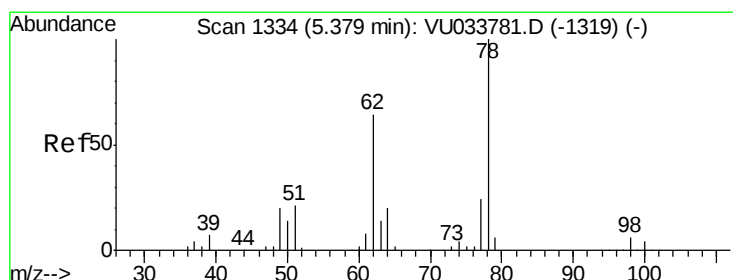
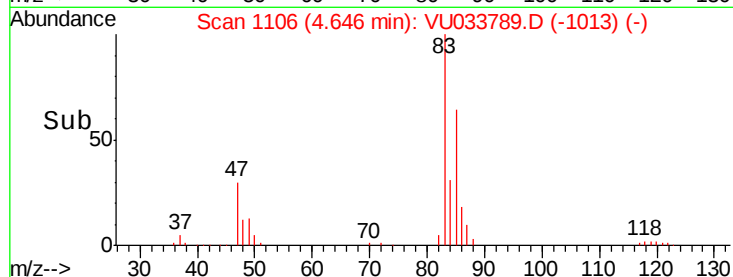
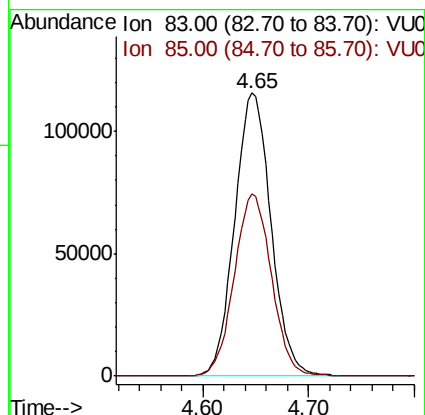
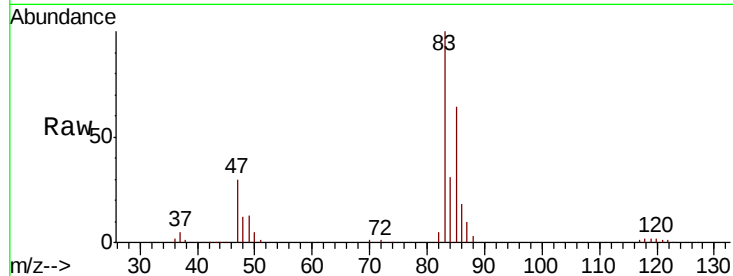




#25
Chloroform
Concen: 46.397 ug/L
RT: 4.65 min Scan# 1106
Delta R.T. 0.00 min
Lab File: VU033789.D
Acq: 13 Aug 2019 19:06

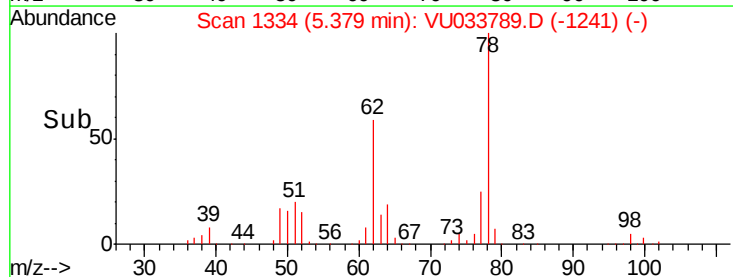
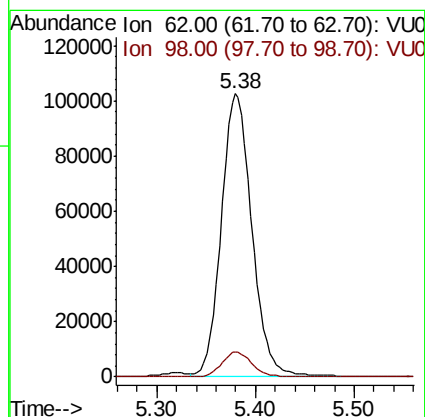
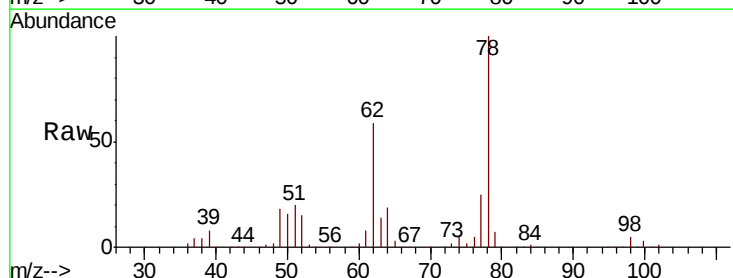
Instrument :
MSVOA_U
ClientSampleId :
VSTD05042

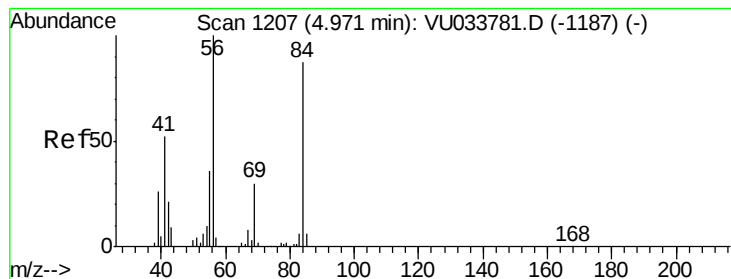
Tgt Ion: 83 Resp: 277302
Ion Ratio Lower Upper
83 100
85 64.4 45.6 84.6



#27
1,2-Dichloroethane
Concen: 47.633 ug/L
RT: 5.38 min Scan# 1334
Delta R.T. 0.00 min
Lab File: VU033789.D
Acq: 13 Aug 2019 19:06

Tgt Ion: 62 Resp: 221147
Ion Ratio Lower Upper
62 100
98 9.0 7.4 11.0





#29

Cyclohexane

Concen: 50.034 ug/L

RT: 4.97 min Scan# 1207

Delta R.T. 0.00 min

Lab File: VU033789.D

Acq: 13 Aug 2019 19:06

Instrument :

MSVOA_U

ClientSampleId :

VSTD05042

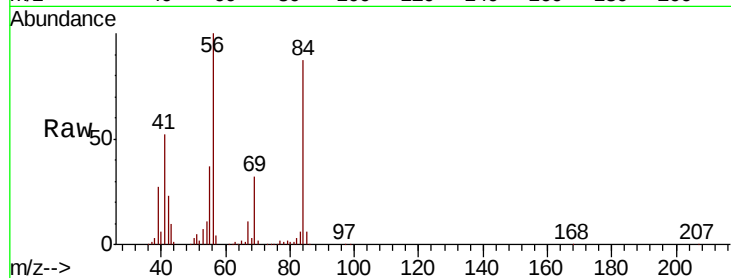
Tgt Ion: 56 Resp: 224721

Ion Ratio Lower Upper

56 100

69 30.8 25.0 37.4

84 87.2 70.3 105.5

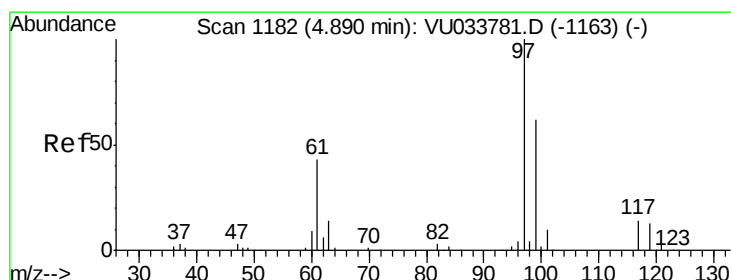
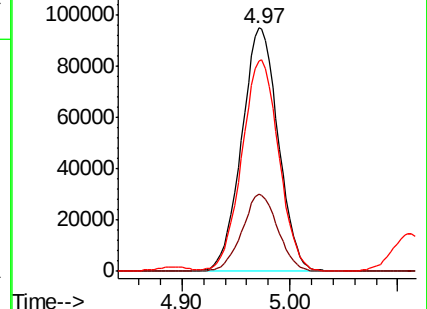
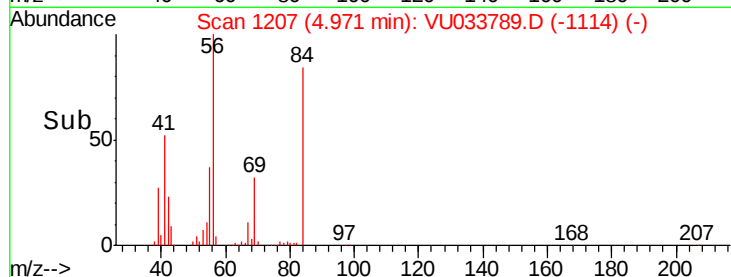


Abundance Ion 56.00 (55.70 to 56.70): VU033789.D (-1187) (-)

Ion 69.00 (68.70 to 69.70): VU033789.D (-1187) (-)

Ion 84.00 (83.70 to 84.70): VU033789.D (-1187) (-)

Time-->



#30

1,1,1-Trichloroethane

Concen: 47.343 ug/L

RT: 4.89 min Scan# 1182

Delta R.T. 0.00 min

Lab File: VU033789.D

Acq: 13 Aug 2019 19:06

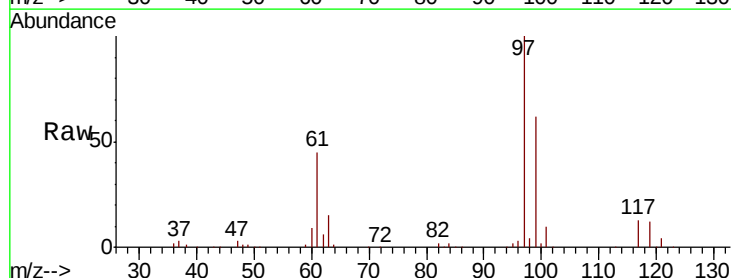
Tgt Ion: 97 Resp: 237291

Ion Ratio Lower Upper

97 100

99 64.4 50.9 76.3

61 44.7 36.6 54.8

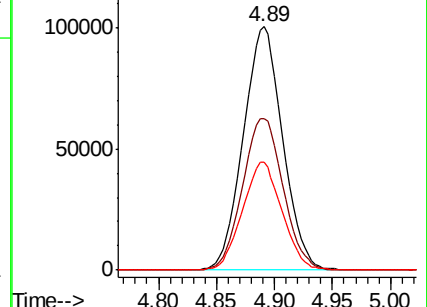
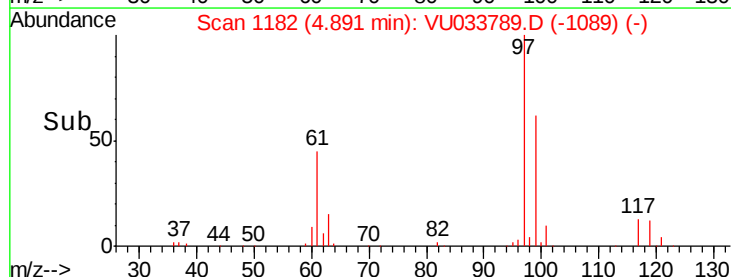


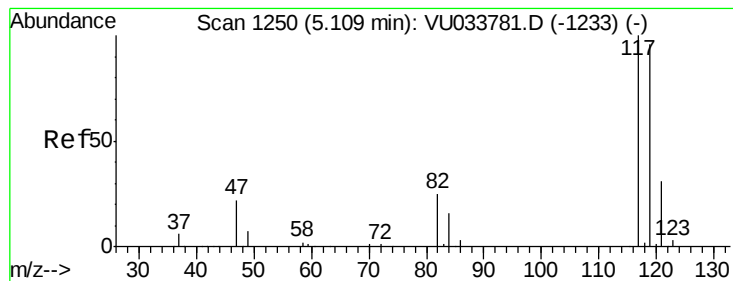
Abundance Ion 97.00 (96.70 to 97.70): VU033789.D (-1089) (-)

Ion 99.00 (98.70 to 99.70): VU033789.D (-1089) (-)

Ion 61.05 (60.75 to 61.75): VU033789.D (-1089) (-)

Time-->





#31

Carbon tetrachloride

Concen: 47.238 ug/L

RT: 5.11 min Scan# 1251

Delta R.T. 0.00 min

Lab File: VU033789.D

Acq: 13 Aug 2019 19:06

Instrument :

MSVOA_U

ClientSampleId :

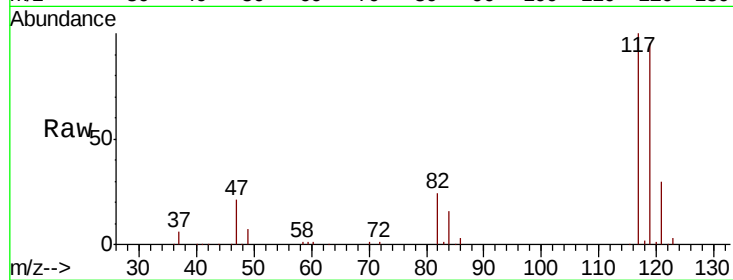
VSTD05042

Tgt Ion:117 Resp: 210283

Ion Ratio Lower Upper

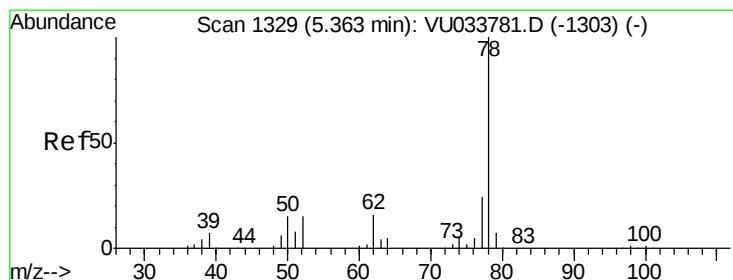
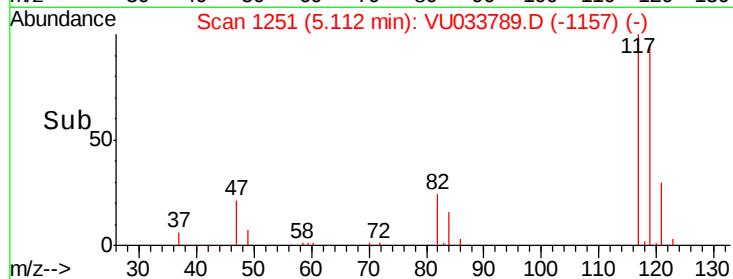
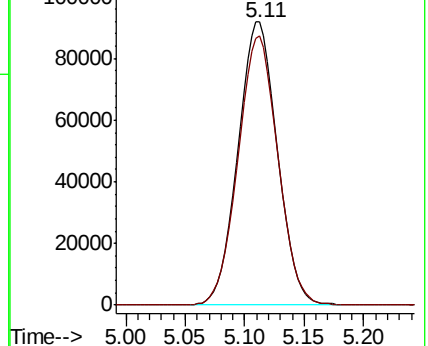
117 100

119 96.4 77.5 116.3



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V



#33

Benzene

Concen: 48.701 ug/L

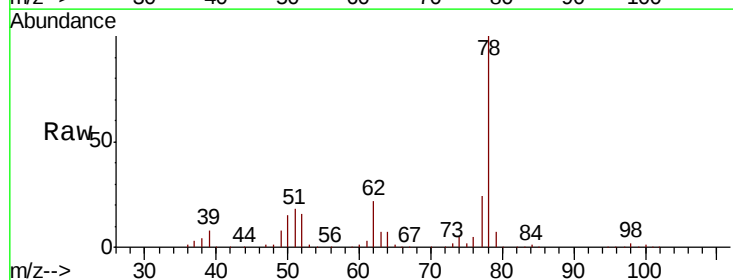
RT: 5.37 min Scan# 1330

Delta R.T. 0.00 min

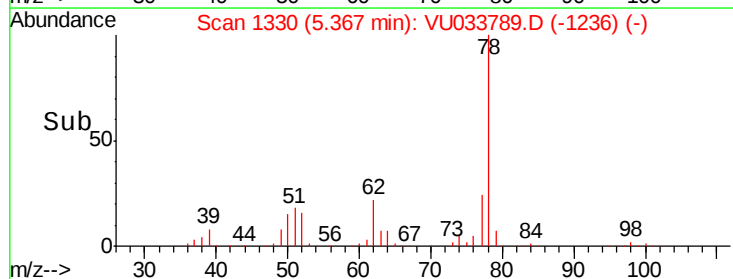
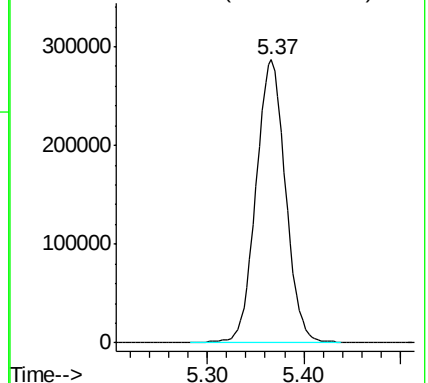
Lab File: VU033789.D

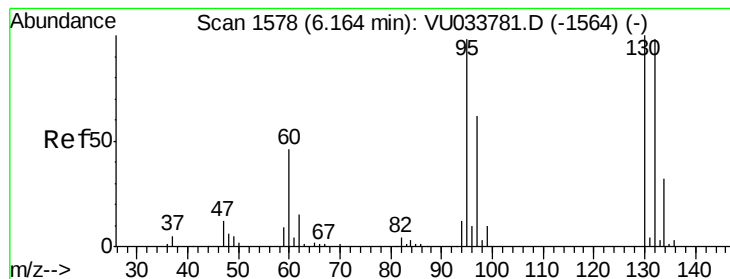
Acq: 13 Aug 2019 19:06

Tgt Ion: 78 Resp: 608875



Abundance Ion 78.00 (77.70 to 78.70): VU0





#34

Trichloroethene

Concen: 47.235 ug/L

RT: 6.16 min Scan# 1578

Delta R.T. 0.00 min

Lab File: VU033789.D

Acq: 13 Aug 2019 19:06

Instrument :

MSVOA_U

ClientSampleId :

VSTD05042

Tgt Ion: 95 Resp: 156450

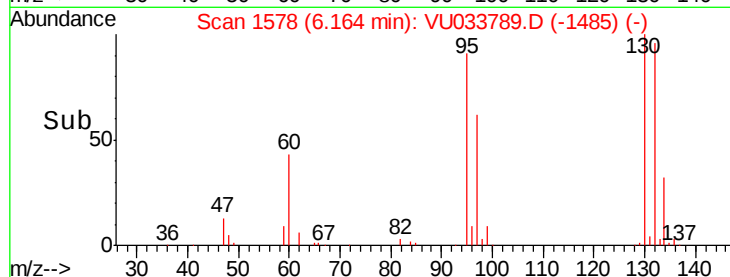
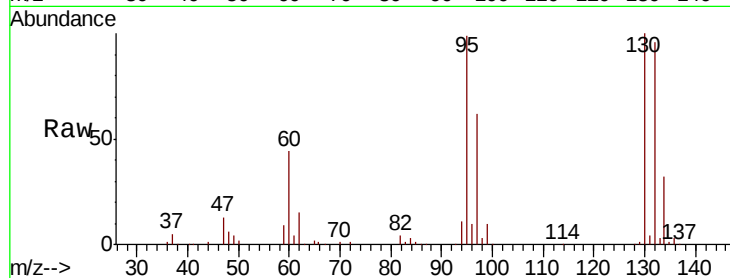
Ion Ratio Lower Upper

95 100

97 62.6 45.1 83.7

132 96.9 67.9 126.1

130 101.0 71.6 133.0



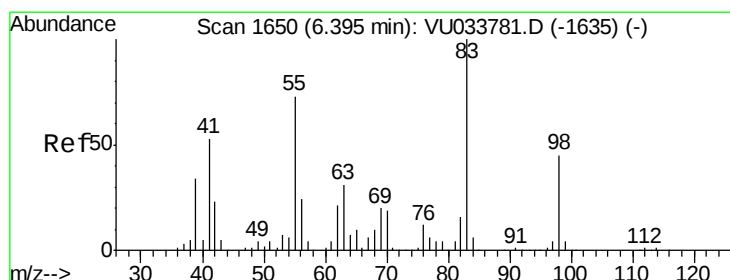
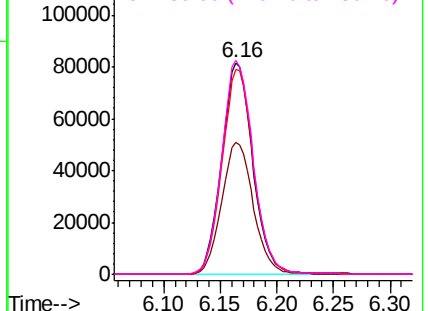
Abundance

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: 48.895 ug/L

RT: 6.40 min Scan# 1650

Delta R.T. 0.00 min

Lab File: VU033789.D

Acq: 13 Aug 2019 19:06

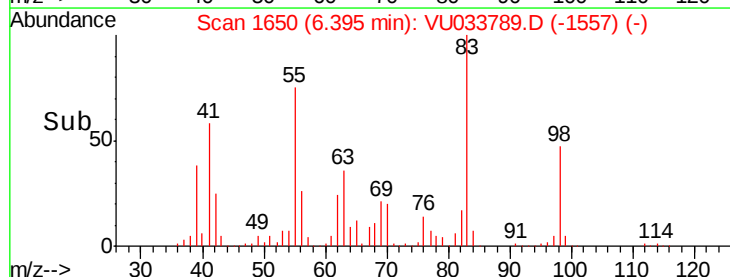
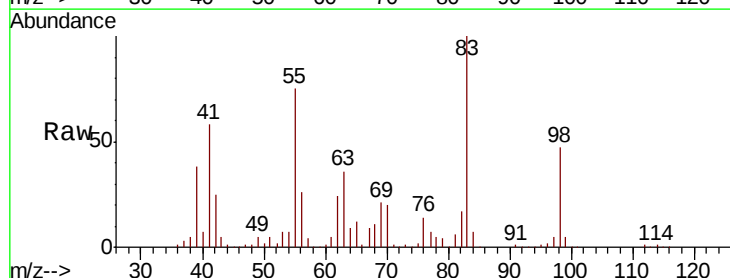
Tgt Ion: 83 Resp: 236041

Ion Ratio Lower Upper

83 100

55 76.5 62.2 93.4

98 45.6 35.8 53.8

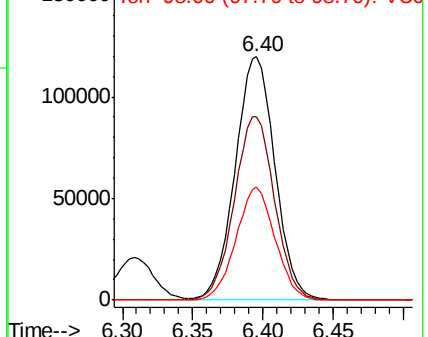


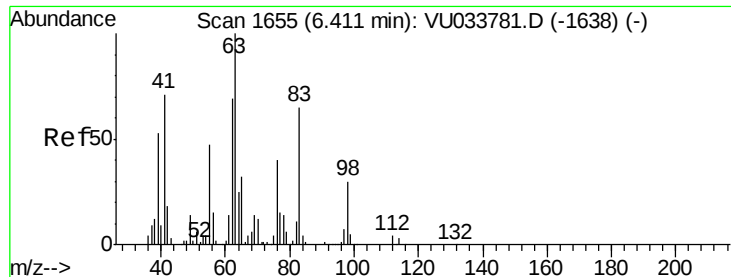
Abundance

Ion 83.00 (82.70 to 83.70): VU0

Ion 55.00 (54.70 to 55.70): VU0

Ion 98.00 (97.70 to 98.70): VU0

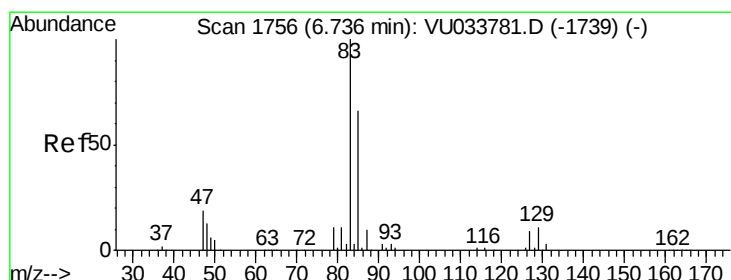
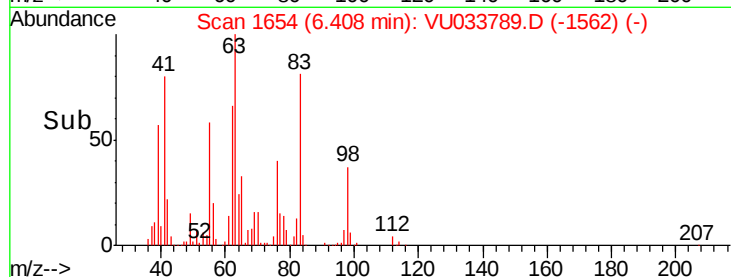
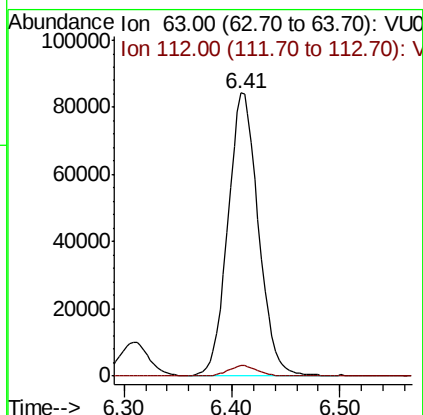
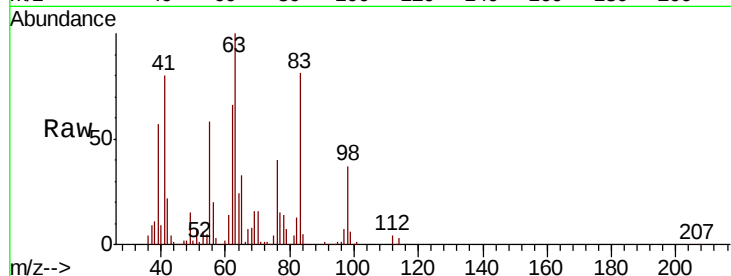




#37
 1,2-Dichloropropane
 Concen: 48.828 ug/L
 RT: 6.41 min Scan# 1654
 Delta R.T. -0.00 min
 Lab File: VU033789.D
 Acq: 13 Aug 2019 19:06

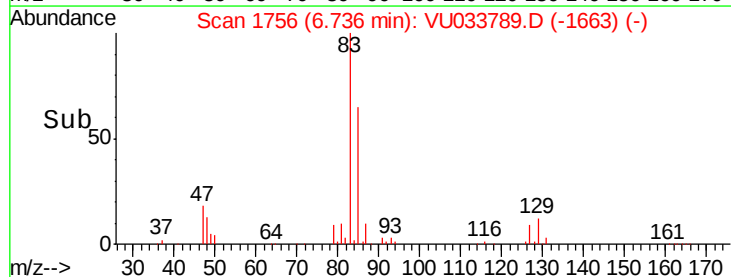
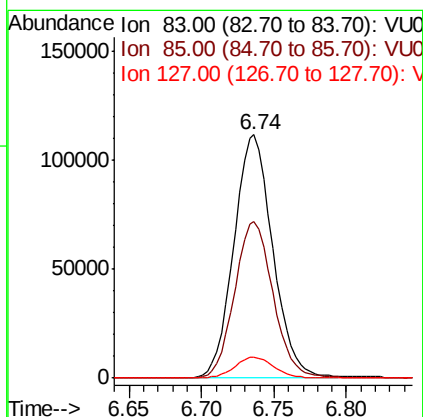
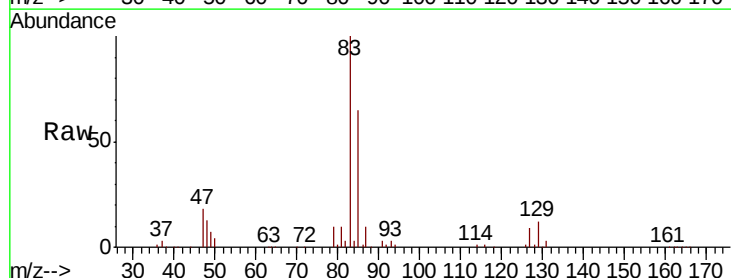
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05042

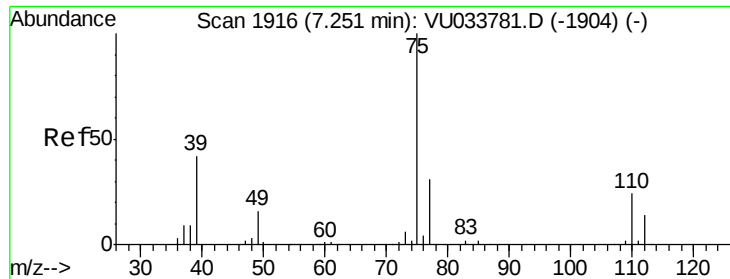
Tgt Ion: 63 Resp: 166341
 Ion Ratio Lower Upper
 63 100
 112 3.6 3.0 4.6



#38
 Bromodichloromethane
 Concen: 47.270 ug/L
 RT: 6.74 min Scan# 1756
 Delta R.T. 0.00 min
 Lab File: VU033789.D
 Acq: 13 Aug 2019 19:06

Tgt Ion: 83 Resp: 207789
 Ion Ratio Lower Upper
 83 100
 85 64.5 45.8 85.0
 127 8.5 7.4 11.0

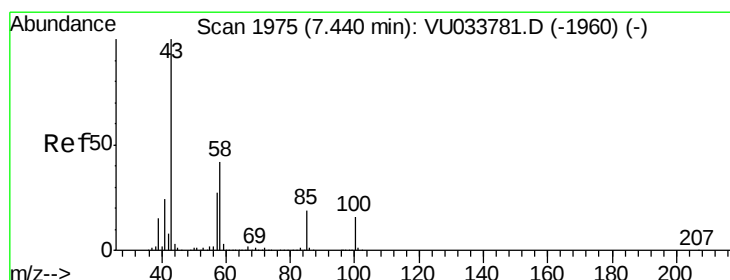
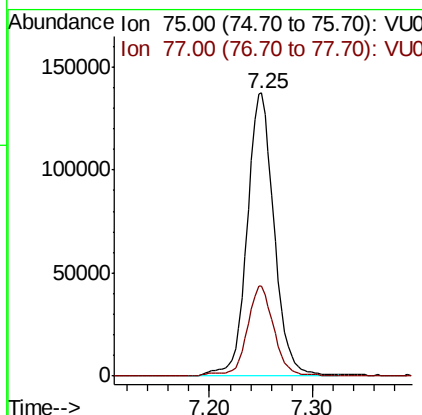
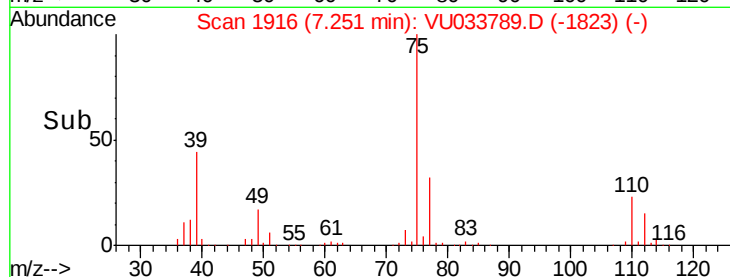
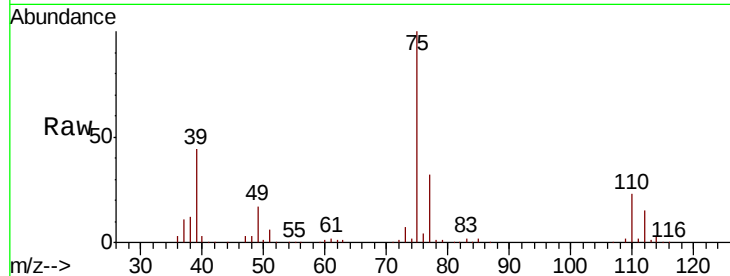




#39
 cis-1,3-Dichloropropene
 Concen: 49.677 ug/L
 RT: 7.25 min Scan# 1916
 Delta R.T. 0.00 min
 Lab File: VU033789.D
 Acq: 13 Aug 2019 19:06

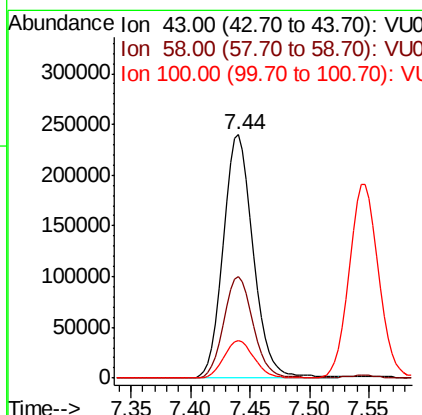
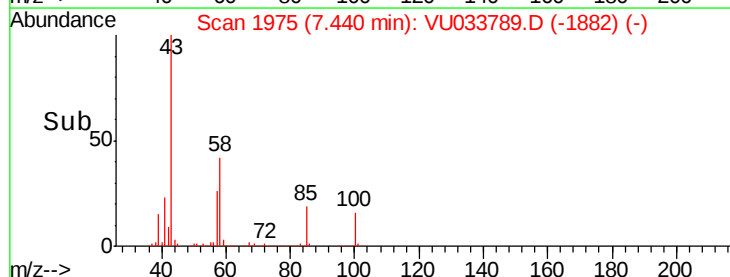
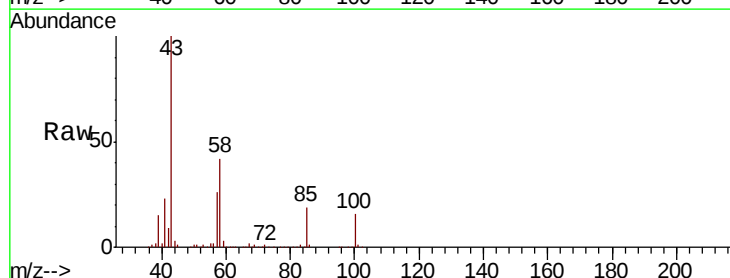
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05042

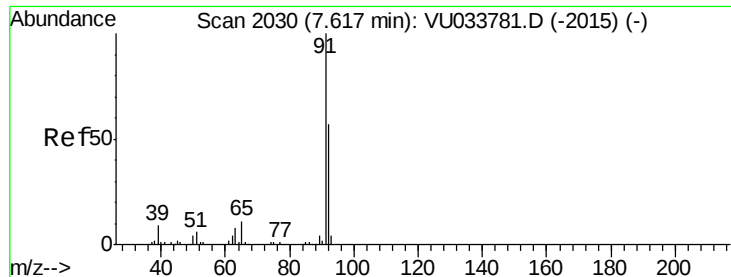
Tgt Ion: 75 Resp: 249814
 Ion Ratio Lower Upper
 75 100
 77 31.9 22.0 40.8



#40
 4-Methyl-2-pentanone
 Concen: 99.080 ug/L
 RT: 7.44 min Scan# 1975
 Delta R.T. 0.00 min
 Lab File: VU033789.D
 Acq: 13 Aug 2019 19:06

Tgt Ion: 43 Resp: 419967
 Ion Ratio Lower Upper
 43 100
 58 40.8 32.5 48.7
 100 15.4 12.2 18.2





#42

Toluene

Concen: 49.687 ug/L

RT: 7.62 min Scan# 2030

Delta R.T. 0.00 min

Lab File: VU033789.D

Acq: 13 Aug 2019 19:06

Instrument :

MSVOA_U

ClientSampleId :

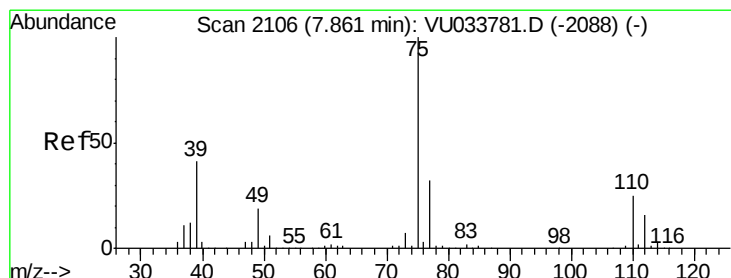
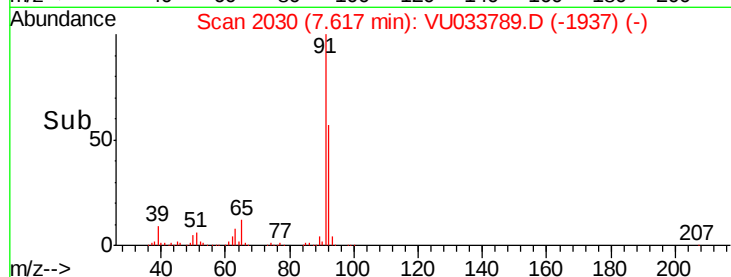
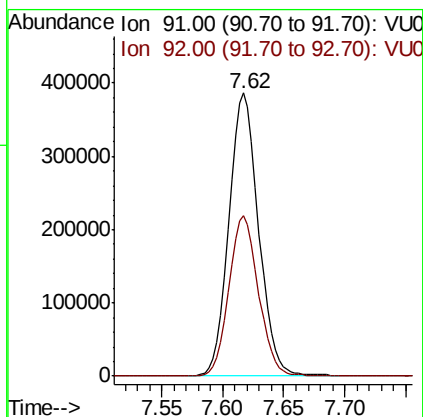
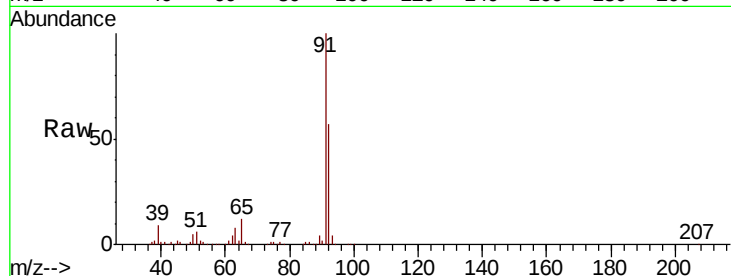
VSTD05042

Tgt Ion: 91 Resp: 656088

Ion Ratio Lower Upper

91 100

92 56.8 40.0 74.2



#44

trans-1,3-Dichloropropene

Concen: 49.243 ug/L

RT: 7.86 min Scan# 2106

Delta R.T. 0.00 min

Lab File: VU033789.D

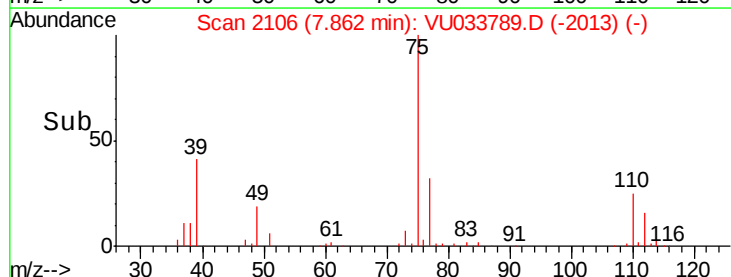
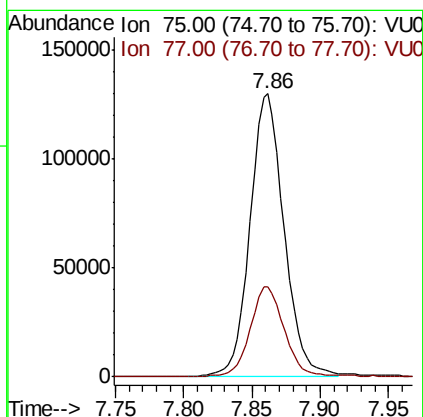
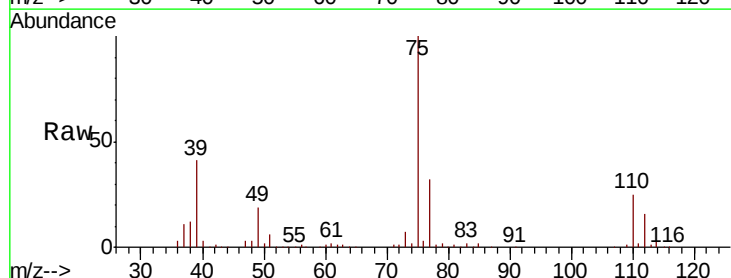
Acq: 13 Aug 2019 19:06

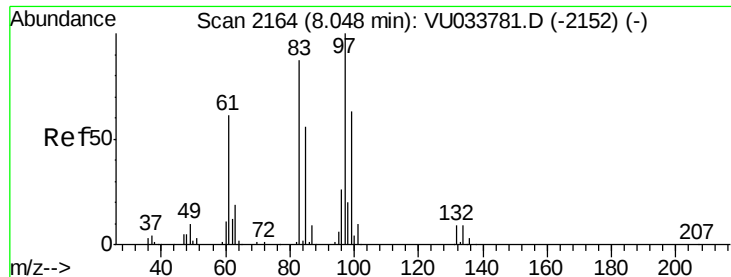
Tgt Ion: 75 Resp: 225556

Ion Ratio Lower Upper

75 100

77 31.9 22.7 42.3

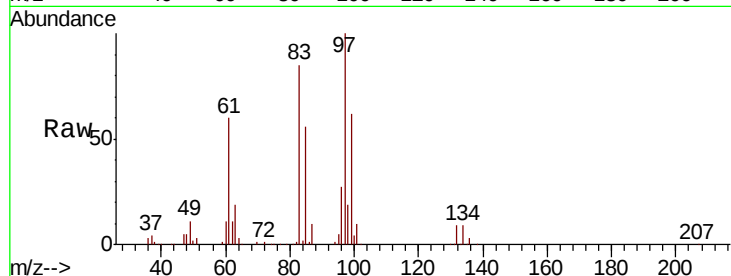




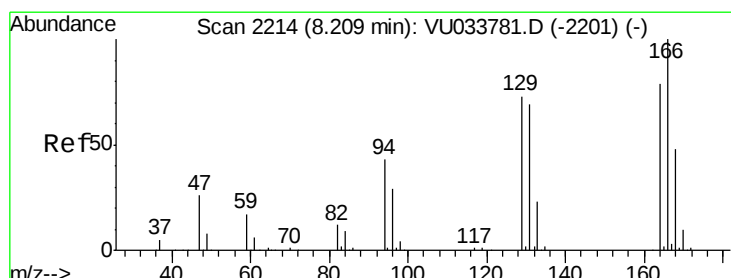
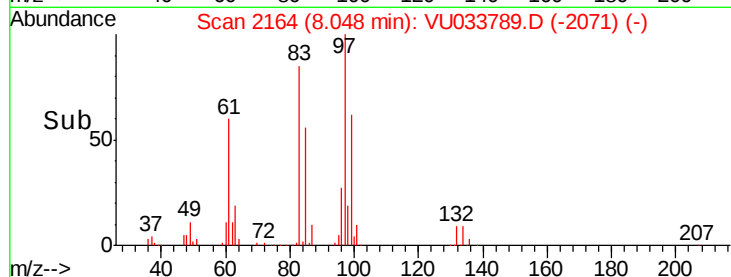
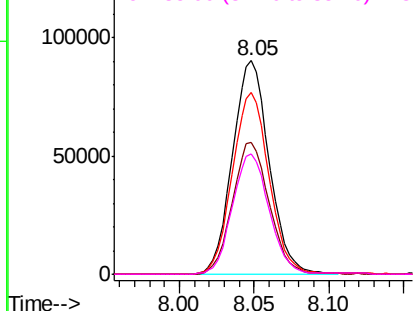
#45
 1,1,2-Trichloroethane
 Concen: 48.044 ug/L
 RT: 8.05 min Scan# 2164
 Delta R.T. 0.00 min
 Lab File: VU033789.D
 Acq: 13 Aug 2019 19:06

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05042

Tgt Ion:	97	Resp:	154469
Ion	Ratio	Lower	Upper
97	100		
99	61.9	43.5	80.9
83	84.8	61.8	114.8
85	56.4	39.1	72.7

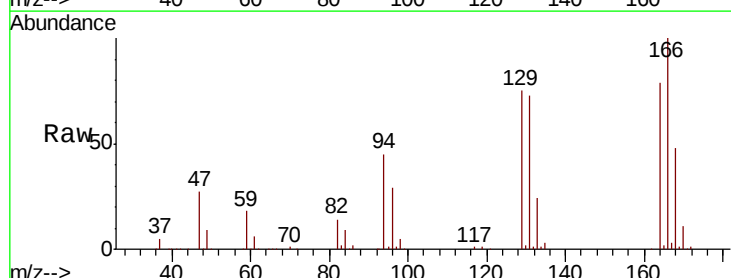


Abundance Ion 97.00 (96.70 to 97.70): VU0
 Ion 99.00 (98.70 to 99.70): VU0
 Ion 83.00 (82.70 to 83.70): VU0
 Ion 85.00 (84.70 to 85.70): VU0

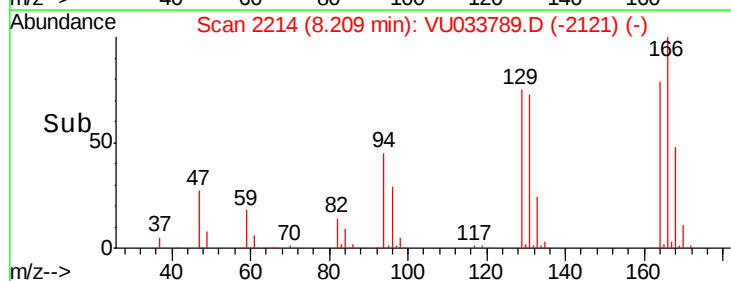
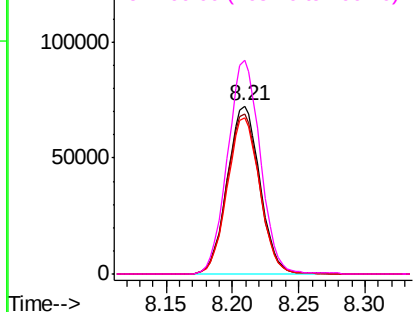


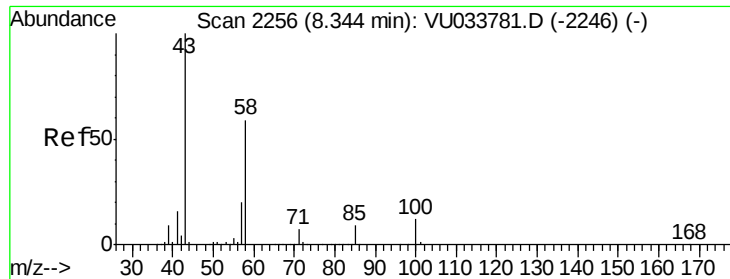
#46
 Tetrachloroethene
 Concen: 47.755 ug/L
 RT: 8.21 min Scan# 2214
 Delta R.T. 0.00 min
 Lab File: VU033789.D
 Acq: 13 Aug 2019 19:06

Tgt Ion:	164	Resp:	124052
Ion	Ratio	Lower	Upper
164	100		
129	95.4	65.5	121.6
131	92.9	64.0	119.0
166	127.0	89.4	166.0



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

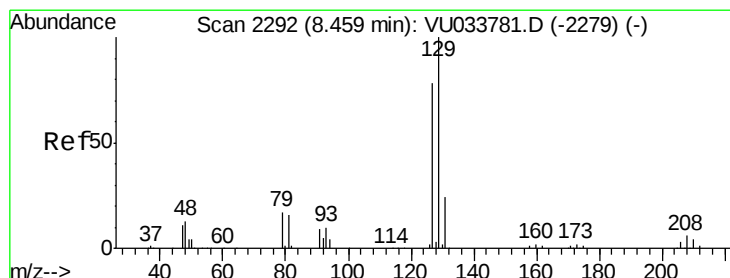
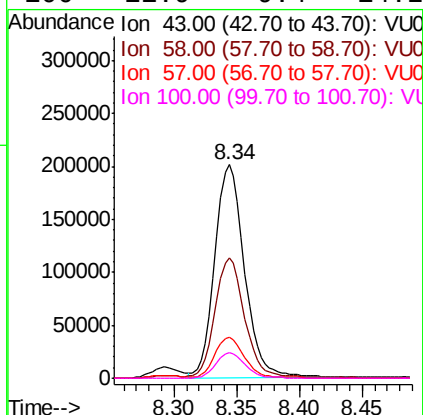
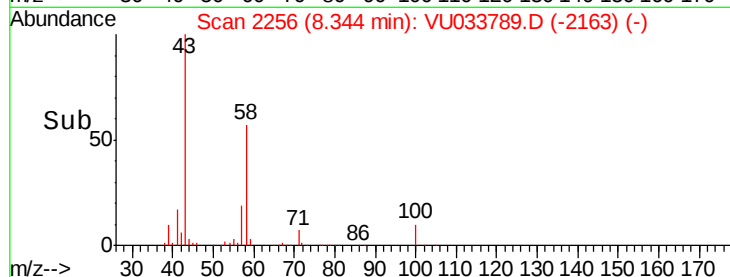
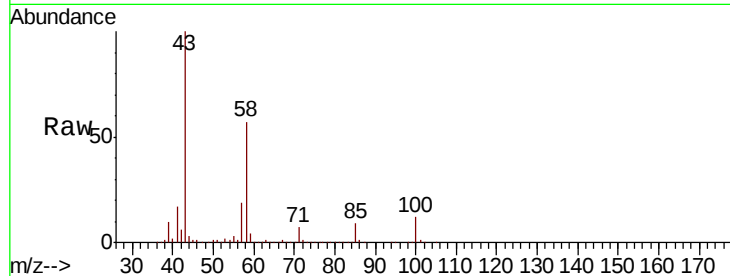




#48
2-Hexanone
Concen: 101.978 ug/L
RT: 8.34 min Scan# 2256
Delta R.T. 0.00 min
Lab File: VU033789.D
Acq: 13 Aug 2019 19:06

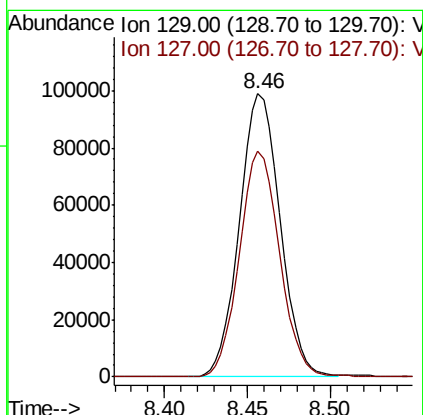
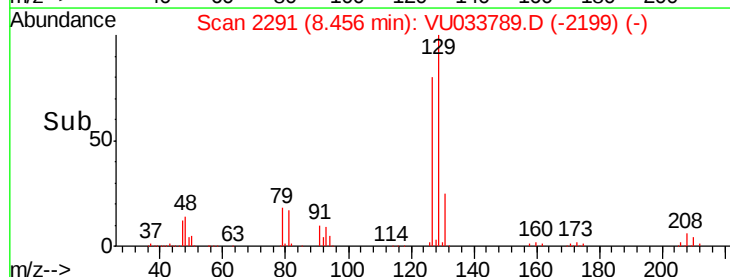
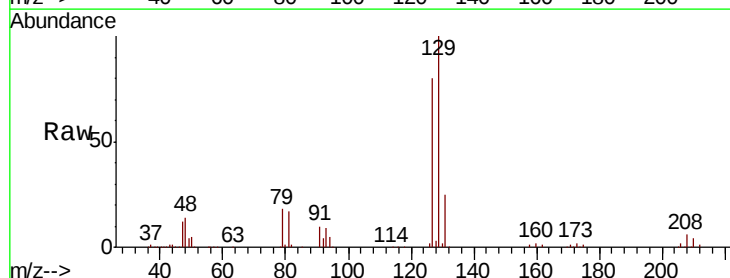
Instrument :
MSVOA_U
ClientSampleId :
VSTD05042

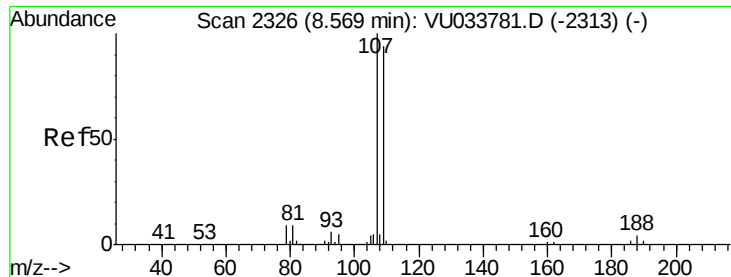
Tgt Ion:	43	Resp:	330863
Ion	Ratio	Lower	Upper
43	100		
58	56.5	45.4	68.0
57	19.3	15.4	23.0
100	11.9	9.4	14.2



#49
Dibromochloromethane
Concen: 47.185 ug/L
RT: 8.46 min Scan# 2291
Delta R.T. -0.00 min
Lab File: VU033789.D
Acq: 13 Aug 2019 19:06

Tgt Ion:	129	Resp:	169369
Ion	Ratio	Lower	Upper
129	100		
127	79.7	54.4	101.0

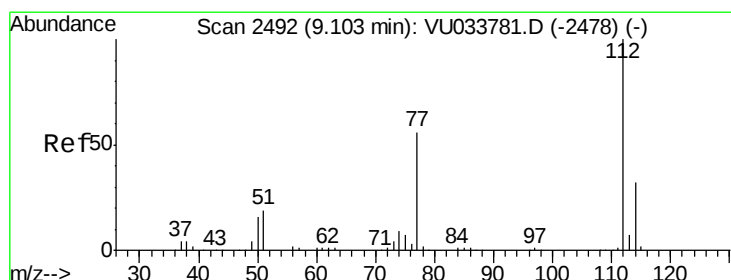
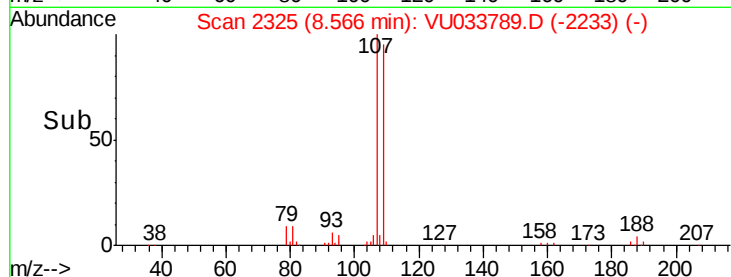
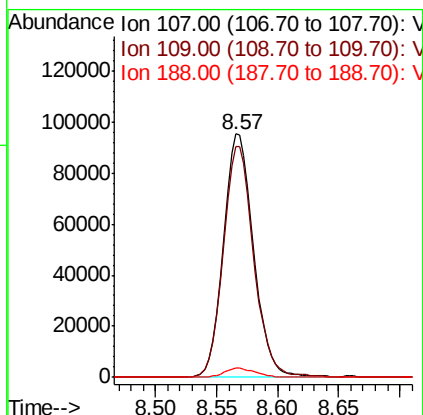
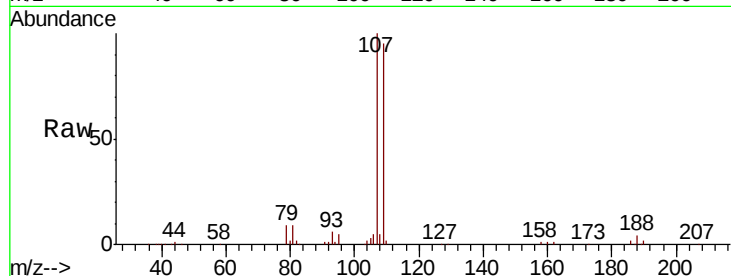




#50
1,2-Dibromoethane
Concen: 49.038 ug/L
RT: 8.57 min Scan# 2325
Delta R.T. -0.00 min
Lab File: VU033789.D
Acq: 13 Aug 2019 19:06

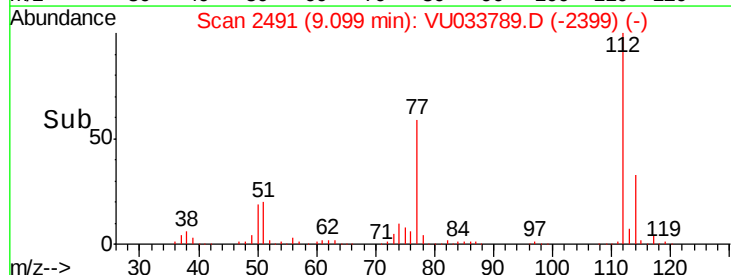
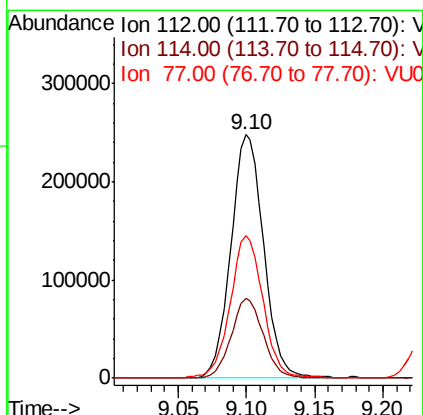
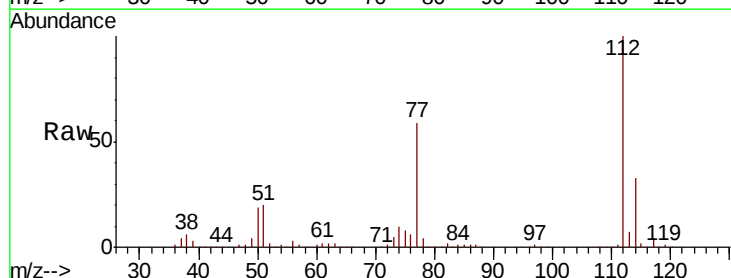
Instrument :
MSVOA_U
ClientSampleId :
VSTD05042

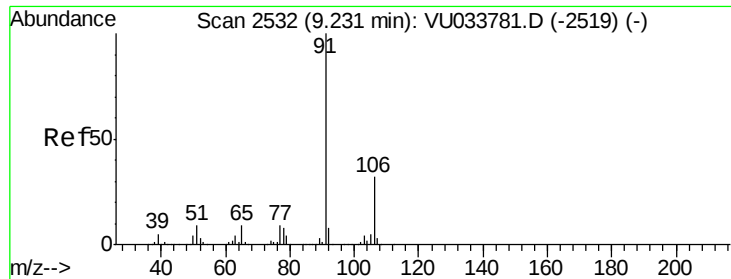
Tgt Ion	Ratio	Lower	Upper
107	100		
109	94.7	66.0	122.6
188	3.8	3.0	4.6



#51
Chlorobenzene
Concen: 48.067 ug/L
RT: 9.10 min Scan# 2491
Delta R.T. -0.00 min
Lab File: VU033789.D
Acq: 13 Aug 2019 19:06

Tgt Ion	Ratio	Lower	Upper
112	100		
114	32.7	22.4	41.6
77	58.8	46.2	69.4





#52

Ethylbenzene

Concen: 50.112 ug/L

RT: 9.23 min Scan# 2532

Delta R.T. 0.00 min

Lab File: VU033789.D

Acq: 13 Aug 2019 19:06

Instrument :

MSVOA_U

ClientSampleId :

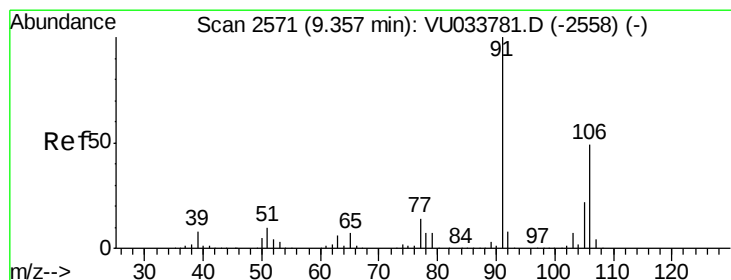
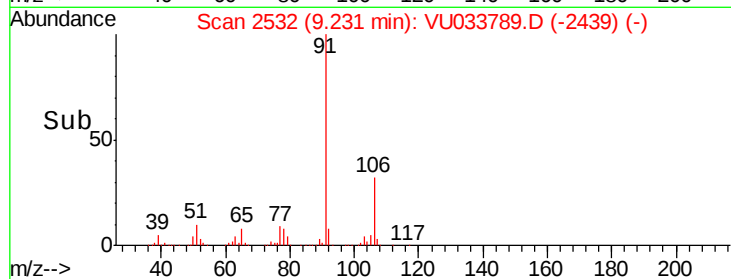
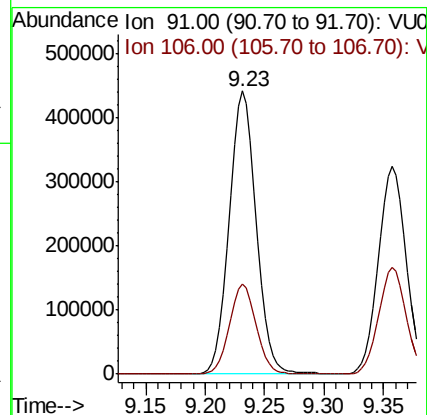
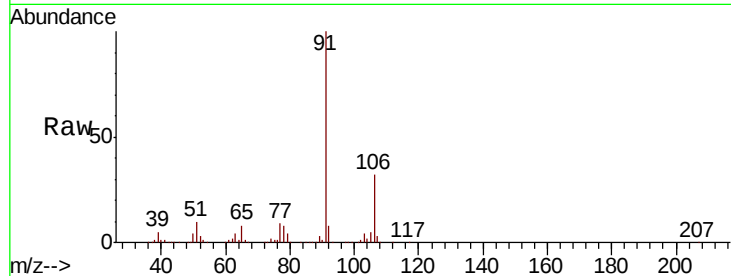
VSTD05042

Tgt Ion: 91 Resp: 696276

Ion Ratio Lower Upper

91 100

106 31.7 22.0 41.0



#53

m,p-Xylene

Concen: 52.138 ug/L

RT: 9.36 min Scan# 2571

Delta R.T. 0.00 min

Lab File: VU033789.D

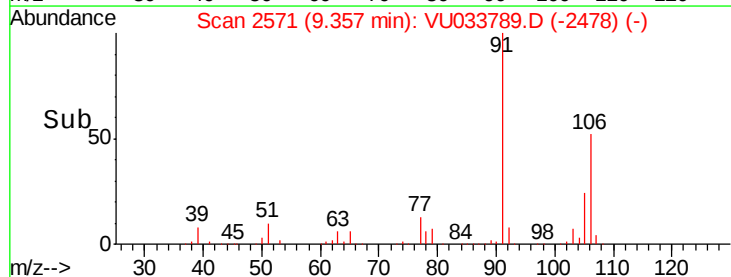
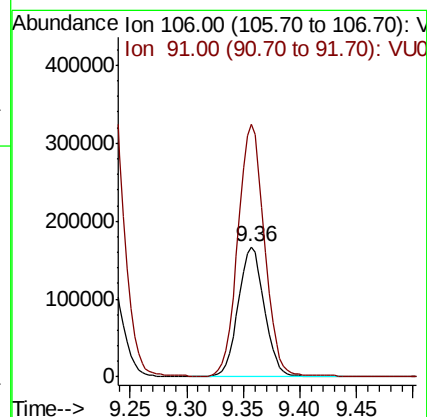
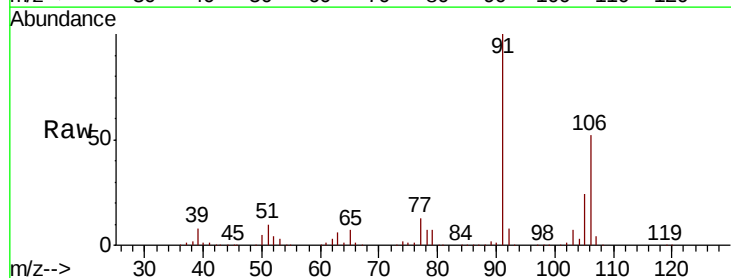
Acq: 13 Aug 2019 19:06

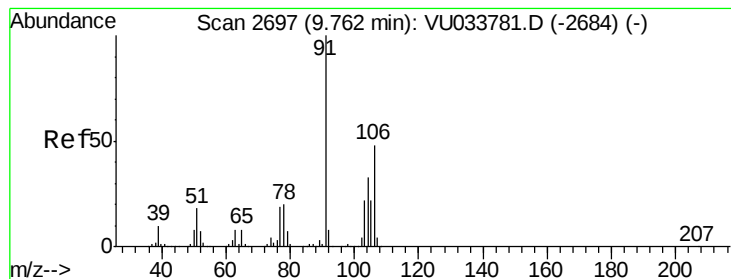
Tgt Ion: 106 Resp: 270799

Ion Ratio Lower Upper

106 100

91 194.0 142.1 263.9





#54

o-xylene

Concen: 50.708 ug/L

RT: 9.76 min Scan# 2697

Delta R.T. 0.00 min

Lab File: VU033789.D

Acq: 13 Aug 2019 19:06

Instrument :

MSVOA_U

ClientSampleId :

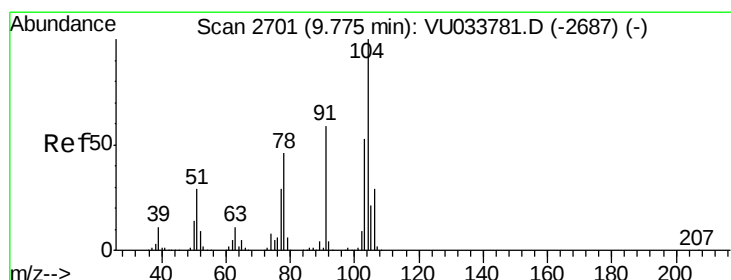
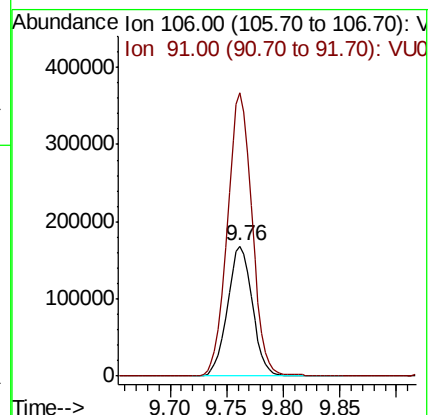
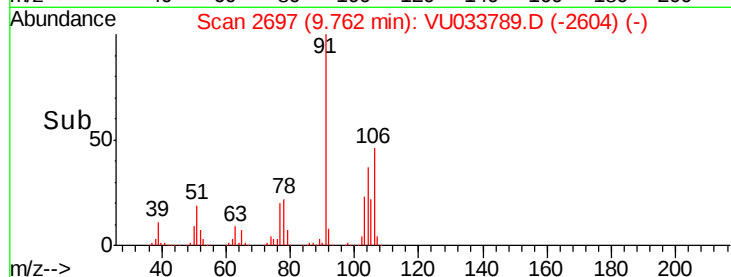
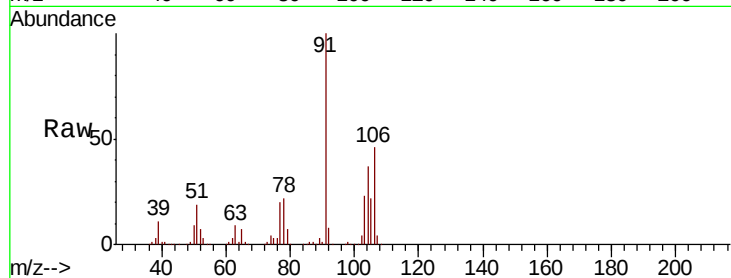
VSTD05042

Tgt Ion:106 Resp: 259103

Ion Ratio Lower Upper

106 100

91 217.5 150.4 279.4



#55

Styrene

Concen: 52.412 ug/L

RT: 9.77 min Scan# 2701

Delta R.T. 0.00 min

Lab File: VU033789.D

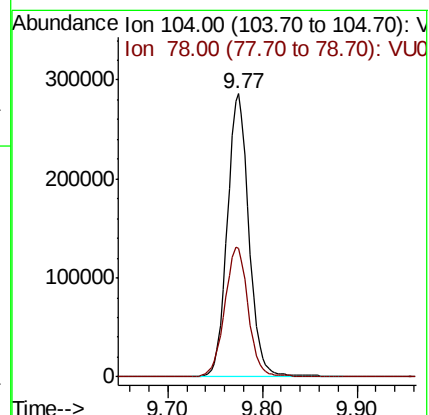
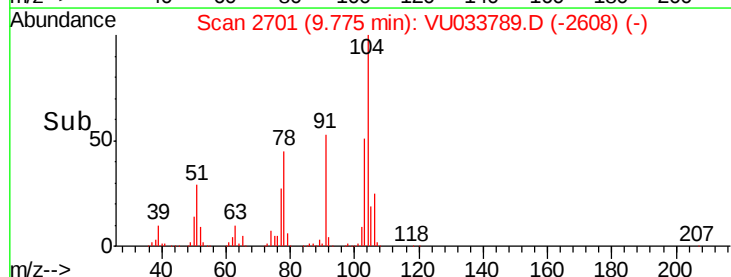
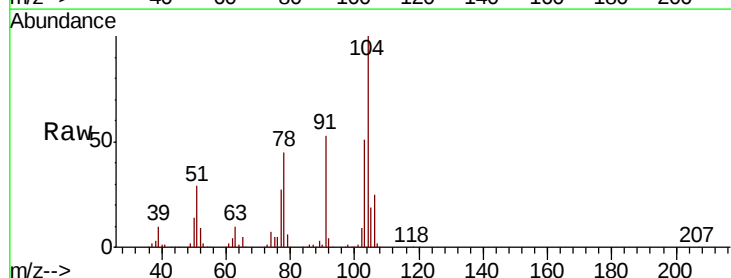
Acq: 13 Aug 2019 19:06

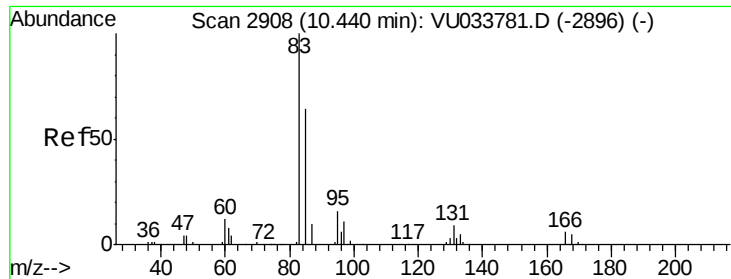
Tgt Ion:104 Resp: 454618

Ion Ratio Lower Upper

104 100

78 45.2 31.6 58.6





#57

1,1,2,2-Tetrachloroethane

Concen: 48.424 ug/L

RT: 10.44 min Scan# 2908

Delta R.T. 0.00 min

Lab File: VU033789.D

Acq: 13 Aug 2019 19:06

Instrument :

MSVOA_U

ClientSampleId :

VSTD05042

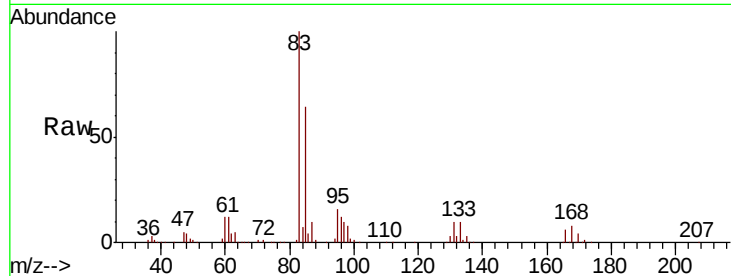
Tgt Ion: 83 Resp: 260397

Ion Ratio Lower Upper

83 100

85 64.3 44.7 83.1

131 9.6 7.8 11.6



Abundance Ion 83.00 (82.70 to 83.70): VU033781.D (-2896) (-)

Ion 85.00 (84.70 to 85.70): VU033781.D (-2896) (-)

Ion 131.00 (130.70 to 131.70): VU033781.D (-2896) (-)

10.44

150000

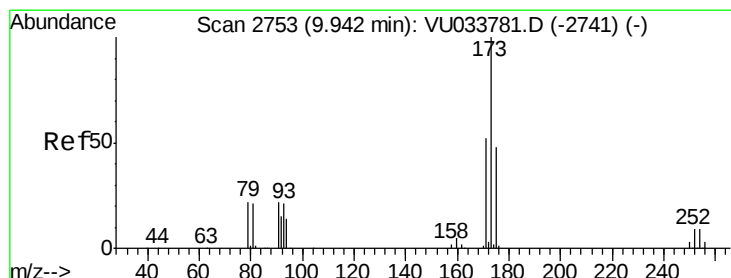
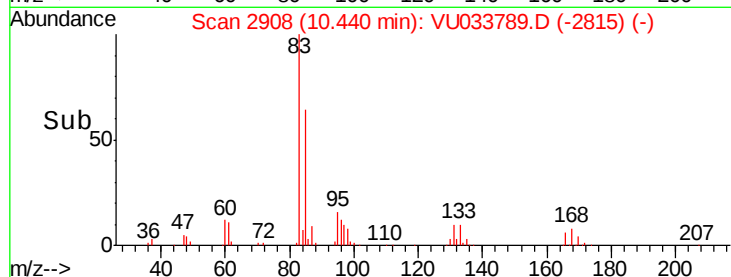
100000

50000

0

Time-->

10.40 10.50



#59

Bromoform

Concen: 44.362 ug/L

RT: 9.94 min Scan# 2752

Delta R.T. -0.00 min

Lab File: VU033789.D

Acq: 13 Aug 2019 19:06

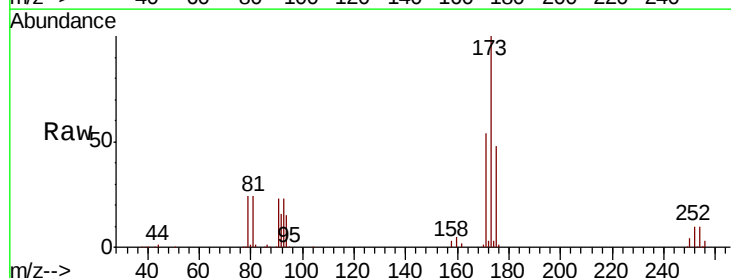
Tgt Ion: 173 Resp: 127027

Ion Ratio Lower Upper

173 100

175 49.2 38.9 58.3

254 9.9 7.4 11.0



Abundance Ion 173.00 (172.70 to 173.70): VU033781.D (-2741) (-)

Ion 175.00 (174.70 to 175.70): VU033781.D (-2741) (-)

Ion 254.00 (253.70 to 254.70): VU033781.D (-2741) (-)

9.94

100000

80000

60000

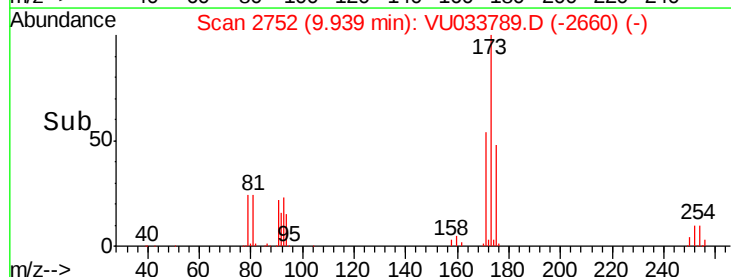
40000

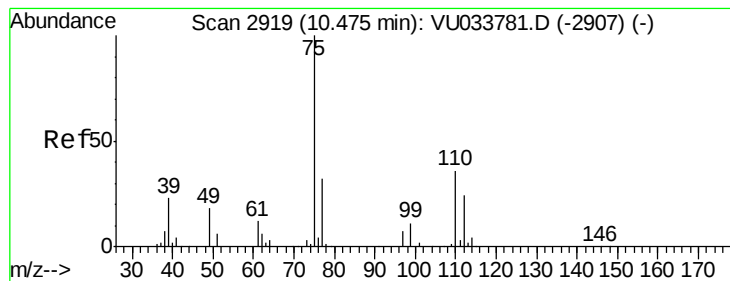
20000

0

Time-->

9.90 10.00





#60

1,2,3-Trichloropropane

Concen: 45.200 ug/L

RT: 10.48 min Scan# 2919

Delta R.T. 0.00 min

Lab File: VU033789.D

Acq: 13 Aug 2019 19:06

Instrument :

MSVOA_U

ClientSampleId :

VSTD05042

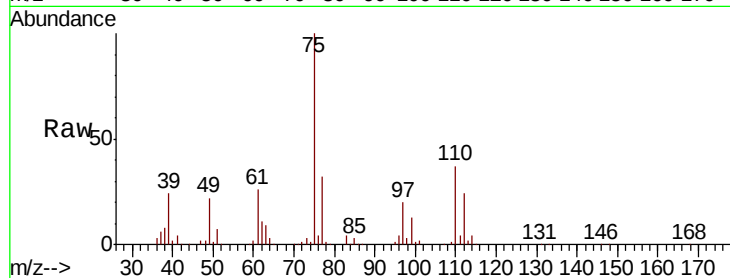
Tgt Ion: 75 Resp: 203838

Ion Ratio Lower Upper

75 100

77 32.5 25.6 38.4

110 37.1 29.7 44.5

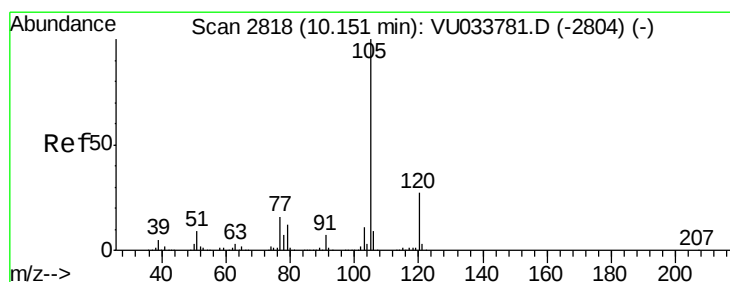
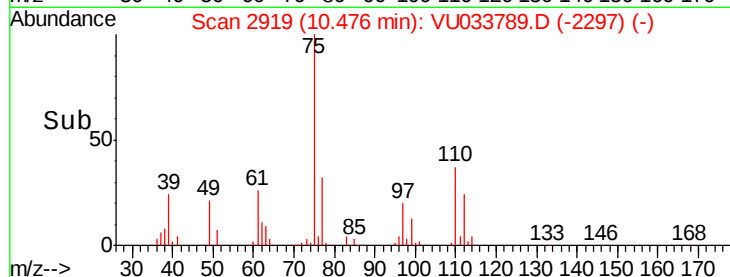
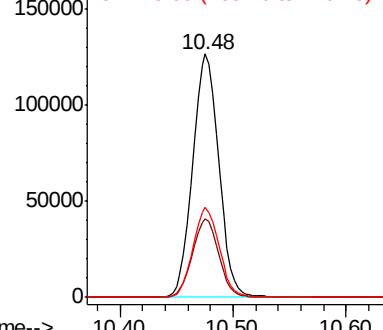


Abundance

Ion 75.00 (74.70 to 75.70): VU033789.D (-2907) (-)

Ion 77.00 (76.70 to 77.70): VU033789.D (-2907) (-)

Ion 110.00 (109.70 to 110.70): VU033789.D (-2907) (-)



#61

Isopropylbenzene

Concen: 49.009 ug/L

RT: 10.15 min Scan# 2817

Delta R.T. -0.00 min

Lab File: VU033789.D

Acq: 13 Aug 2019 19:06

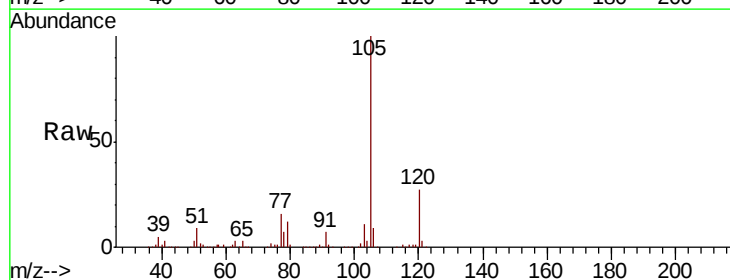
Tgt Ion: 105 Resp: 680024

Ion Ratio Lower Upper

105 100

120 26.6 21.0 31.6

77 15.7 12.8 19.2

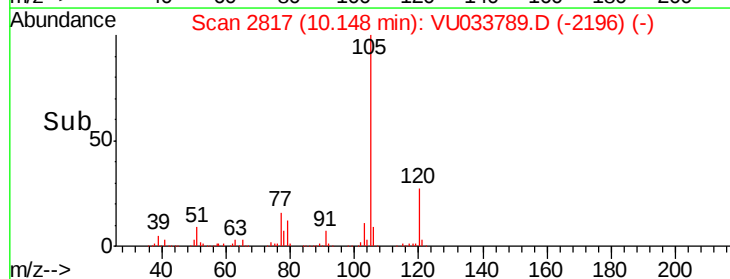
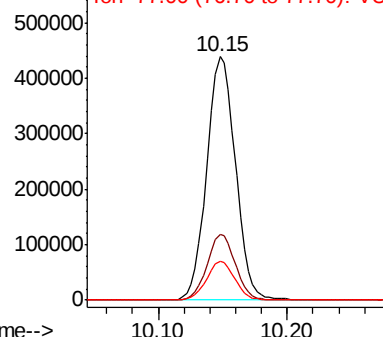


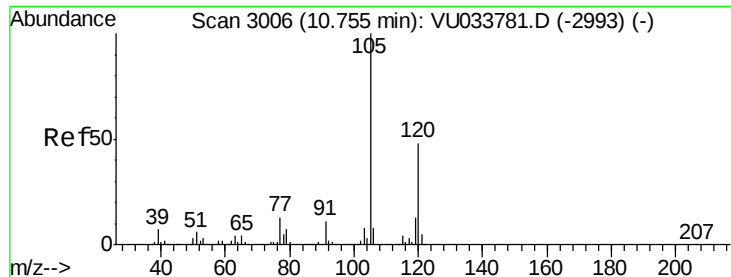
Abundance

Ion 105.00 (104.70 to 105.70): VU033789.D (-2196) (-)

Ion 120.00 (119.70 to 120.70): VU033789.D (-2196) (-)

Ion 77.00 (76.70 to 77.70): VU033789.D (-2196) (-)





#62

1,3,5-Trimethylbenzene

Concen: 50.557 ug/L

RT: 10.76 min Scan# 3006

Delta R.T. 0.00 min

Lab File: VU033789.D

Acq: 13 Aug 2019 19:06

Instrument :

MSVOA_U

ClientSampleId :

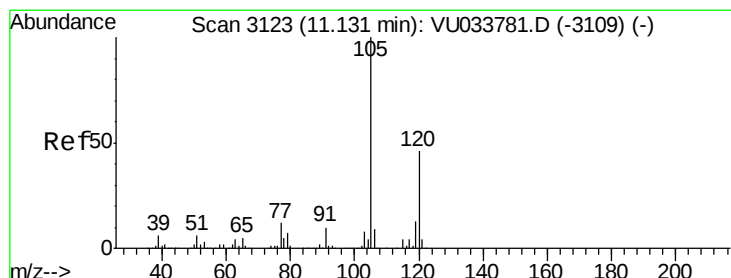
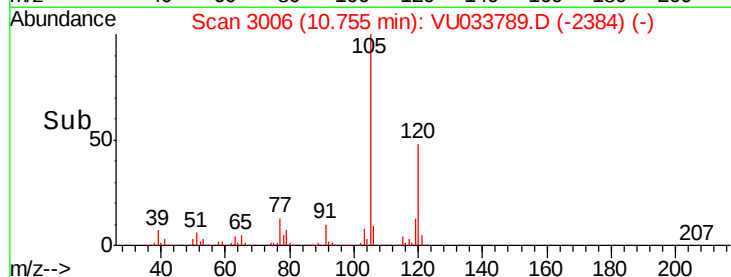
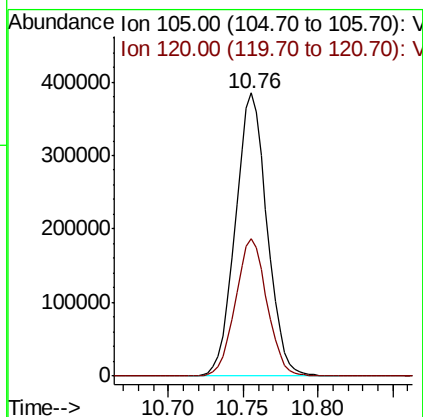
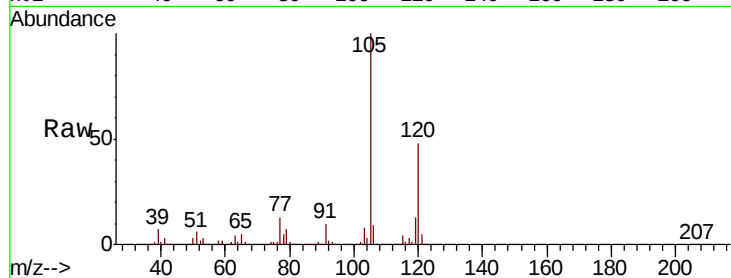
VSTD05042

Tgt Ion:105 Resp: 566317

Ion Ratio Lower Upper

105 100

120 48.6 39.4 59.2



#63

1,2,4-Trimethylbenzene

Concen: 50.819 ug/L

RT: 11.13 min Scan# 3123

Delta R.T. 0.00 min

Lab File: VU033789.D

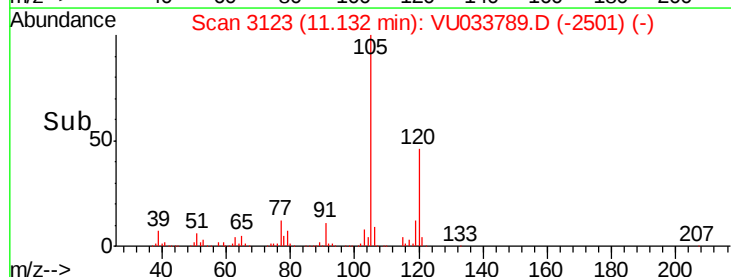
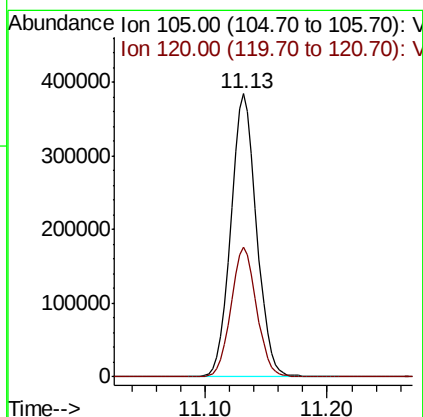
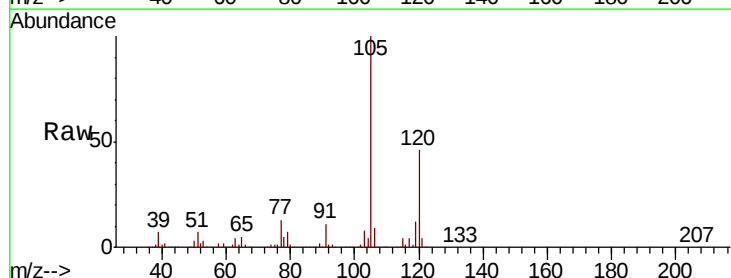
Acq: 13 Aug 2019 19:06

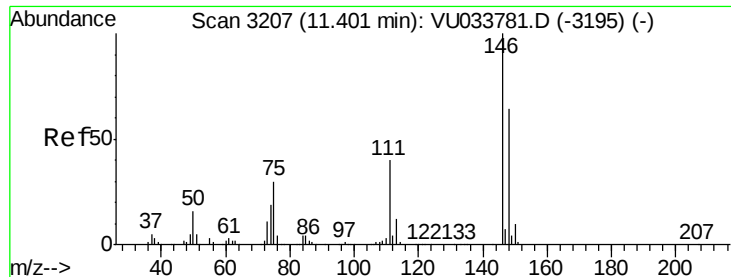
Tgt Ion:105 Resp: 564835

Ion Ratio Lower Upper

105 100

120 45.6 36.6 55.0

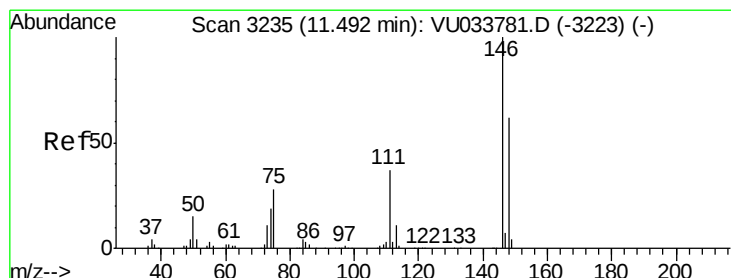
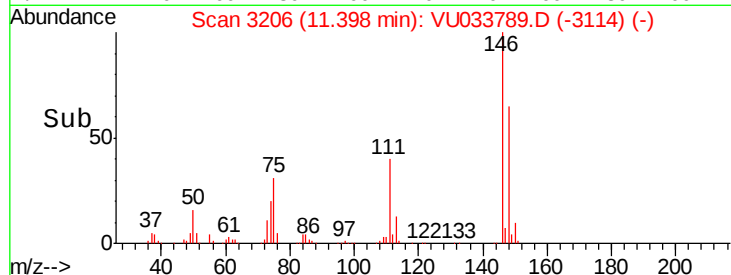
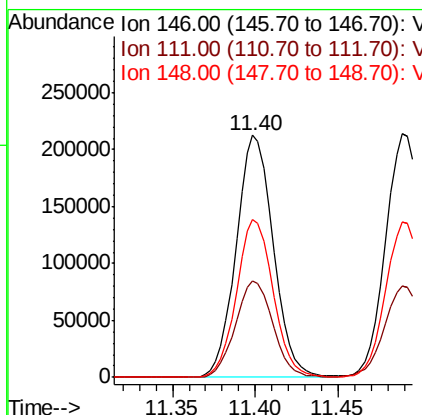
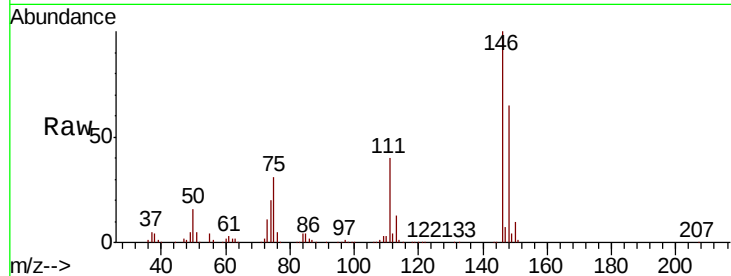




#64
 1,3-Dichlorobenzene
 Concen: 47.612 ug/L
 RT: 11.40 min Scan# 3206
 Delta R.T. -0.00 min
 Lab File: VU033789.D
 Acq: 13 Aug 2019 19:06

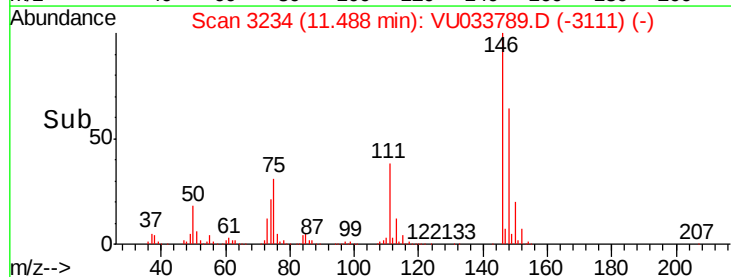
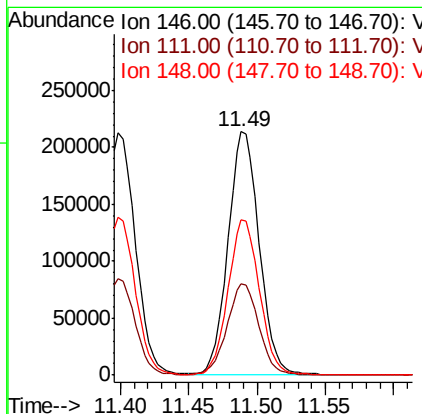
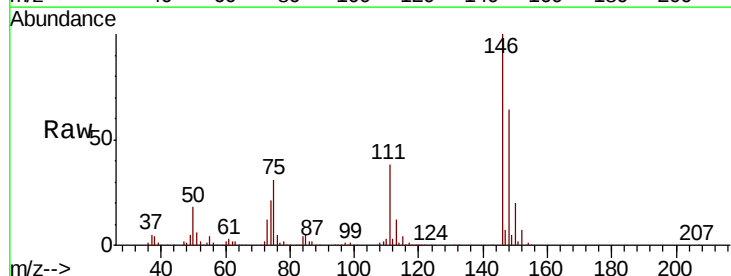
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05042

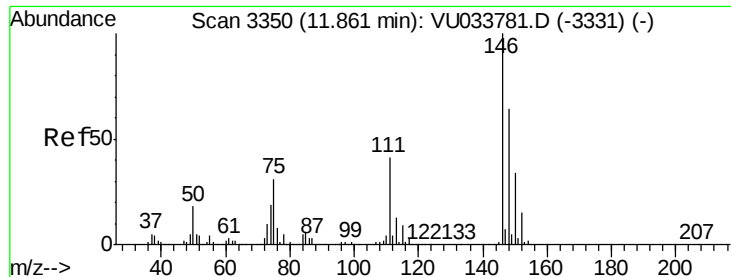
Tgt Ion:146 Resp: 331419
 Ion Ratio Lower Upper
 146 100
 111 39.9 27.1 50.3
 148 65.1 45.0 83.6



#65
 1,4-Dichlorobenzene
 Concen: 47.492 ug/L
 RT: 11.49 min Scan# 3234
 Delta R.T. -0.00 min
 Lab File: VU033789.D
 Acq: 13 Aug 2019 19:06

Tgt Ion:146 Resp: 338828
 Ion Ratio Lower Upper
 146 100
 111 37.6 26.5 49.3
 148 63.6 43.9 81.5

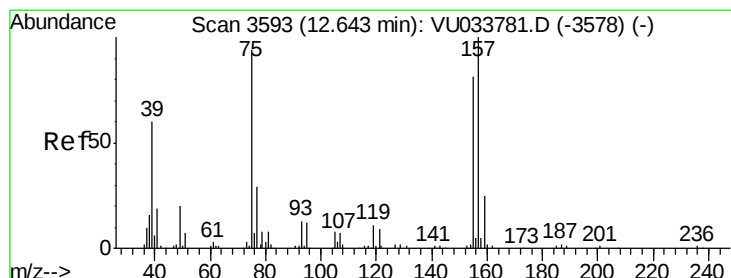
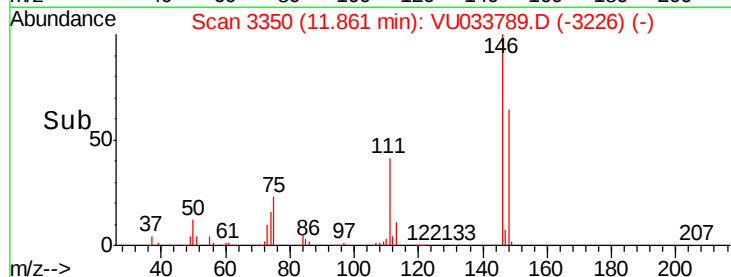
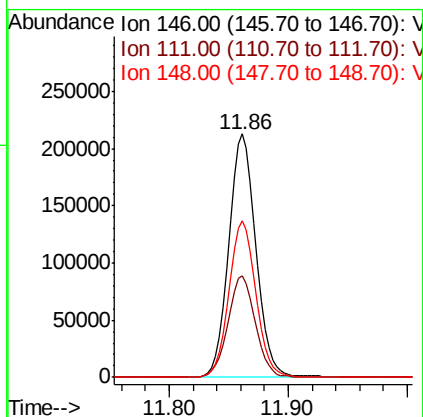
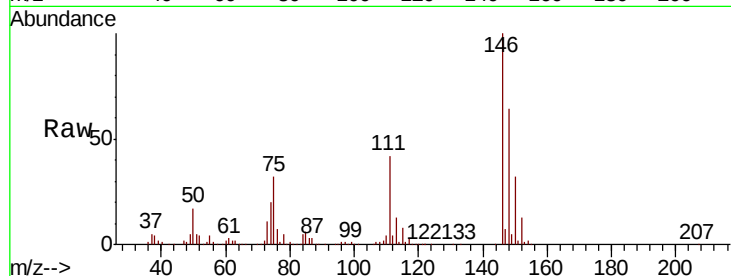




#67
 1,2-Dichlorobenzene
 Concen: 47.520 ug/L
 RT: 11.86 min Scan# 3350
 Delta R.T. 0.00 min
 Lab File: VU033789.D
 Acq: 13 Aug 2019 19:06

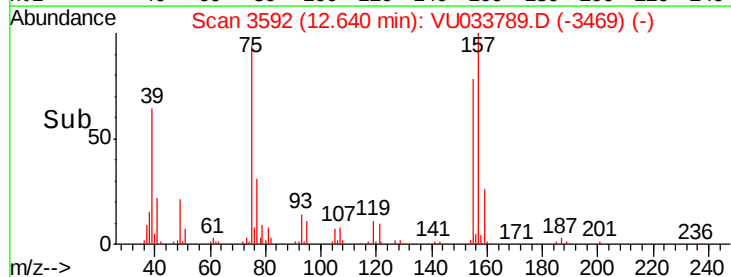
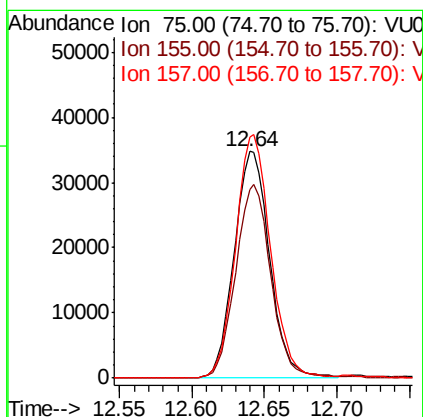
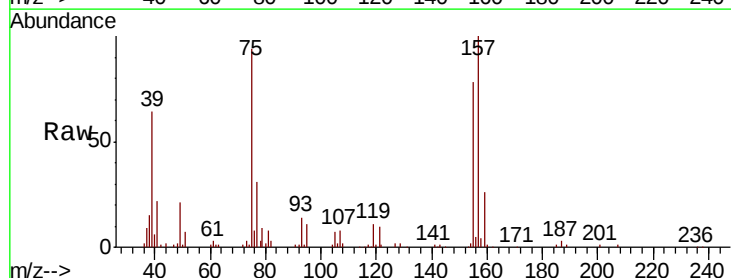
Instrument :
 MSVOA_U
 ClientSampled :
 VSTD05042

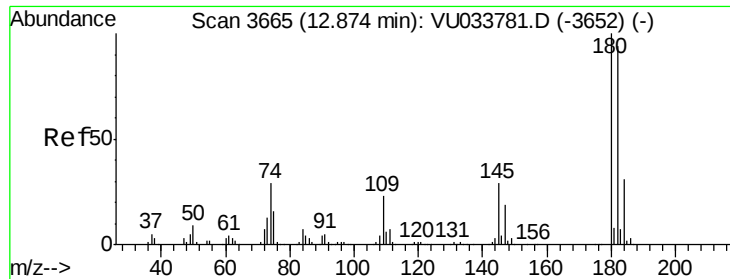
Tgt Ion: 146 Resp: 336138
 Ion Ratio Lower Upper
 146 100
 111 41.5 33.1 49.7
 148 64.2 51.8 77.8



#68
 1,2-Dibromo-3-chloropropane
 Concen: 47.053 ug/L
 RT: 12.64 min Scan# 3592
 Delta R.T. -0.00 min
 Lab File: VU033789.D
 Acq: 13 Aug 2019 19:06

Tgt Ion: 75 Resp: 59177
 Ion Ratio Lower Upper
 75 100
 155 83.3 65.9 98.9
 157 106.5 86.3 129.5

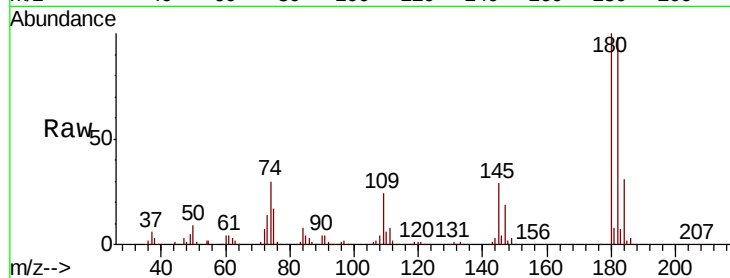




#69
 1,3,5-Trichlorobenzene
 Concen: 47.910 ug/L
 RT: 12.87 min Scan# 3664
 Delta R.T. -0.00 min
 Lab File: VU033789.D
 Acq: 13 Aug 2019 19:06

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05042

Tgt Ion:	180	Resp:	251904
Ion	Ratio	Lower	Upper
180	100		
182	97.1	77.2	115.8
184	30.5	24.5	36.7
145	29.2	23.4	35.0



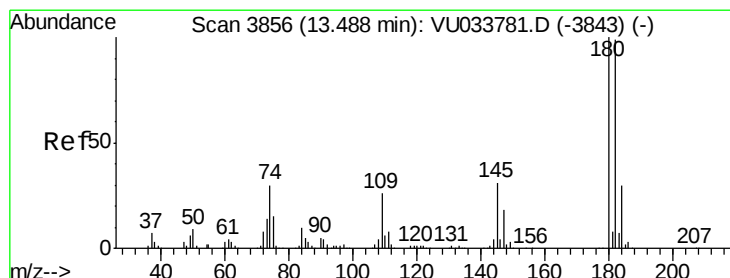
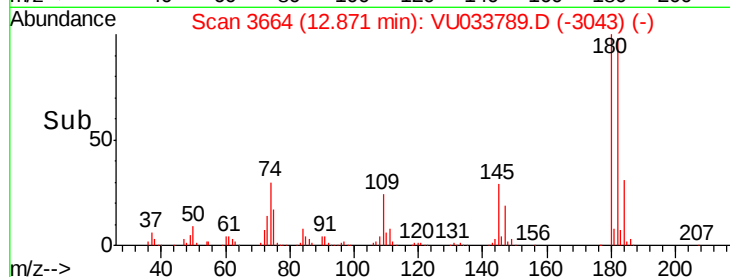
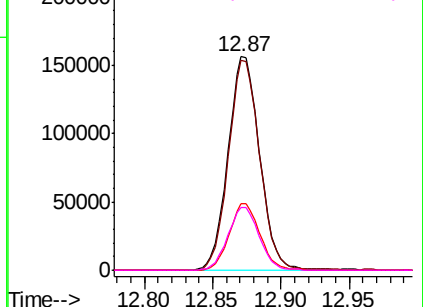
Abundance

Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

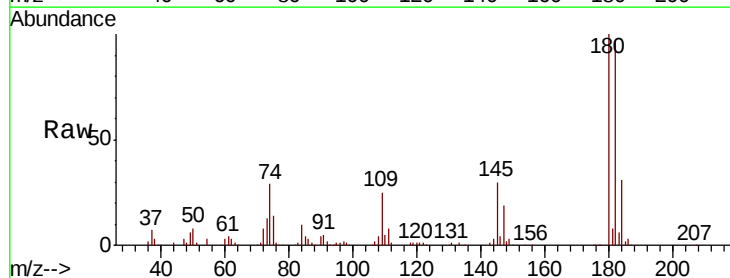
Ion 184.00 (183.70 to 184.70): V

Ion 145.00 (144.70 to 145.70): V



#70
 1,2,4-trichlorobenzene
 Concen: 50.305 ug/L
 RT: 13.49 min Scan# 3856
 Delta R.T. 0.00 min
 Lab File: VU033789.D
 Acq: 13 Aug 2019 19:06

Tgt Ion:	180	Resp:	219371
Ion	Ratio	Lower	Upper
180	100		
182	95.2	75.3	112.9
145	29.1	23.3	34.9

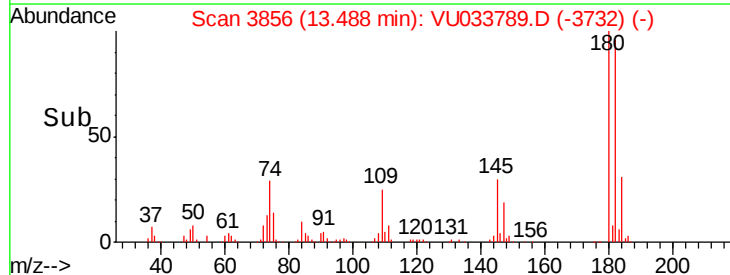
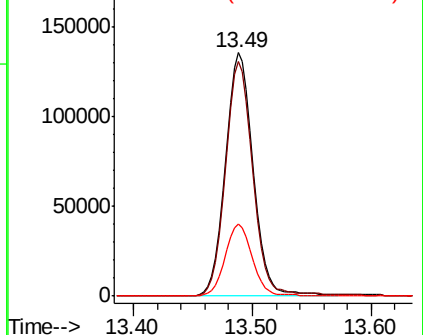


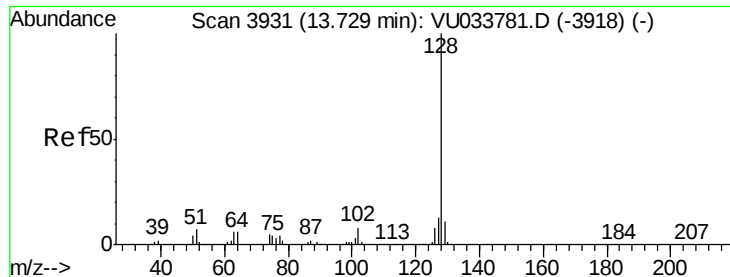
Abundance

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

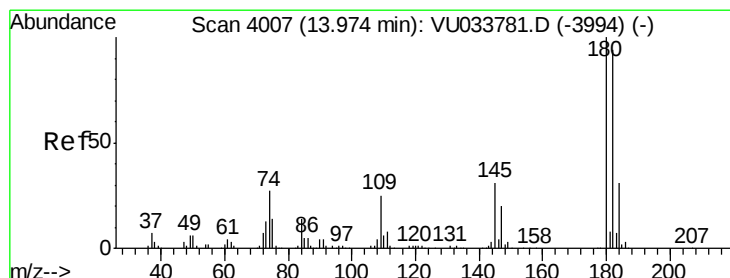
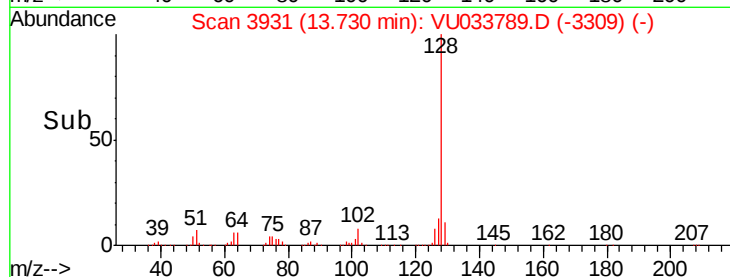
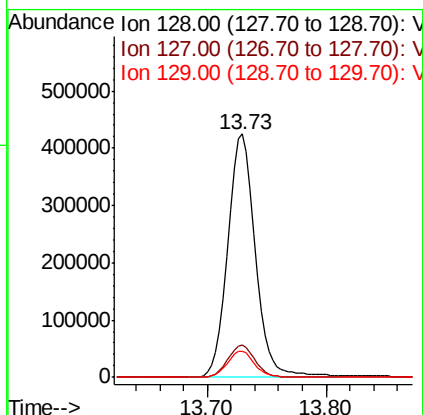
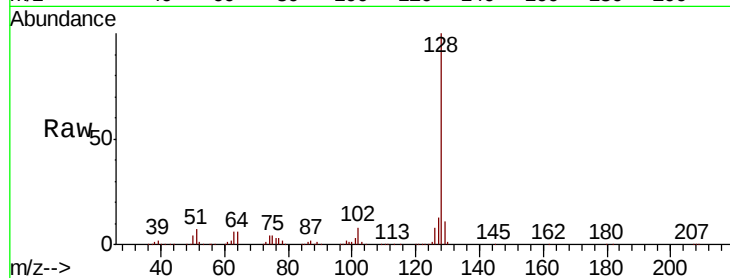




#71
Naphthalene
Concen: 52.720 ug/L
RT: 13.73 min Scan# 3931
Delta R.T. 0.00 min
Lab File: VU033789.D
Acq: 13 Aug 2019 19:06

Instrument :
MSVOA_U
ClientSampled :
VSTD05042

Tgt Ion:128 Resp: 684352
Ion Ratio Lower Upper
128 100
127 13.1 11.0 16.4
129 10.6 8.5 12.7



#72
1,2,3-Trichlorobenzene
Concen: 51.072 ug/L
RT: 13.97 min Scan# 4007
Delta R.T. 0.00 min
Lab File: VU033789.D
Acq: 13 Aug 2019 19:06

Tgt Ion:180 Resp: 233464
Ion Ratio Lower Upper
180 100
182 95.4 77.1 115.7
145 31.0 24.6 36.8

