

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU092619\
 Data File : VU034842.D
 Acq On : 26 Sep 2019 13:43
 Operator : JC/SP
 Sample : VSTDCCC050
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: Sep 26 15:49:56 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM091919WMA.M
 Quant Title : VOC Analysis
 QLast Update : Thu Sep 26 14:52:31 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.86	114	531493	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.07	117	507485	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.46	152	255365	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.39	65	214655	39.45	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	78.90%
7) Chloroethane-d5	1.67	69	195222	46.42	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	92.84%
11) 1,1-Dichloroethene-d2	2.26	63	412511	44.77	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	89.54%
21) 2-Butanone-d5	4.14	46	494867	118.67	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	118.67%
24) Chloroform-d	4.62	84	427217	54.01	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	108.02%
26) 1,2-Dichloroethane-d4	5.28	65	281975	48.49	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	96.98%
32) Benzene-d6	5.31	84	850627	54.08	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	108.16%
36) 1,2-Dichloropropane-d6	6.31	67	300891	54.73	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	109.46%
41) Toluene-d8	7.54	98	820935	54.86	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	109.72%
43) trans-1,3-Dichloropropene-	7.83	79	139037	52.80	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	105.60%
47) 2-Hexanone-d5	8.29	63	330653	119.74	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	119.74%
57) 1,1,2,2-Tetrachloroethane-	10.41	84	429831	56.35	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	112.70%
64) 1,2-Dichlorobenzene-d4	11.84	152	304161	56.80	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	113.60%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.20	85	246988	45.088	ug/L 100
3) Chloromethane	1.32	50	298797	45.536	ug/L 100
5) Vinyl chloride	1.40	62	284247	47.430	ug/L 98
6) Bromomethane	1.61	94	157697	48.179	ug/L 97
8) Chloroethane	1.69	64	167371	48.512	ug/L 98
9) Trichlorofluoromethane	1.87	101	360694	47.733	ug/L 99
10) 1,1,2-Trichloro-1,2,2-trif	2.27	101	189820	52.391	ug/L 94
12) 1,1-Dichloroethene	2.27	96	184293	52.998	ug/L 86
13) Acetone	2.31	43	401079	82.681	ug/L 95
14) Carbon disulfide	2.46	76	551663	47.018	ug/L 99
15) Methyl Acetate	2.60	43	314785	48.579	ug/L 96
16) Methylene chloride	2.68	84	226350	51.387	ug/L 91
17) trans-1,2-Dichloroethene	2.96	96	201514	53.003	ug/L 86
18) Methyl tert-butyl Ether	2.98	73	696652	49.391	ug/L 95
19) 1,1-Dichloroethane	3.42	63	418782	48.016	ug/L 99
20) cis-1,2-Dichloroethene	4.20	96	229027	51.520	ug/L 87
22) 2-Butanone	4.23	43	511431	88.621	ug/L 96

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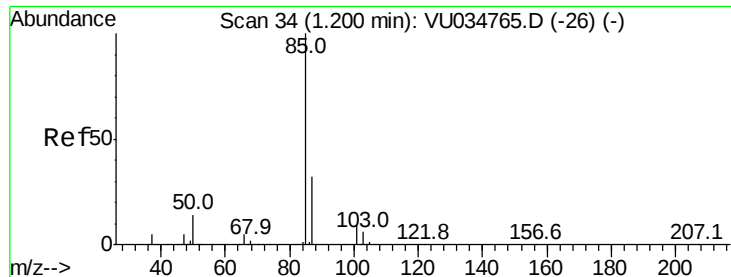
Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: Sep 26 15:49:56 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM091919WMA.M
 Quant Title : VOC Analysis
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

23) Bromochloromethane	4.52	128	110929	52.134	ug/L #	85
25) Chloroform	4.65	83	396729	46.193	ug/L	96
27) 1,2-Dichloroethane	5.38	62	319295	43.037	ug/L #	93
29) Cyclohexane	4.97	56	377011	45.009	ug/L	95
30) 1,1,1-Trichloroethane	4.89	97	315933	45.741	ug/L	97
31) Carbon tetrachloride	5.11	117	279015	47.398	ug/L	100
33) Benzene	5.36	78	878580	49.917	ug/L	100
34) Trichloroethene	6.16	95	220321	50.685	ug/L	94
35) Methylcyclohexane	6.39	83	327375	44.380	ug/L	95
37) 1,2-Dichloropropane	6.41	63	253021	48.278	ug/L #	98
38) Bromodichloromethane	6.73	83	295352	46.470	ug/L	97
39) cis-1,3-Dichloropropene	7.25	75	392460	49.838	ug/L	99
40) 4-Methyl-2-pentanone	7.44	43	913280	91.276	ug/L	95
42) Toluene	7.61	91	966808	50.827	ug/L	98
44) trans-1,3-Dichloropropene	7.86	75	341732	48.138	ug/L	99
45) 1,1,2-Trichloroethane	8.04	97	216750	51.632	ug/L	96
46) Tetrachloroethene	8.21	164	166978	54.611	ug/L	97
48) 2-Hexanone	8.34	43	707869	90.582	ug/L	95
49) Dibromochloromethane	8.45	129	236913	50.631	ug/L	92
50) 1,2-Dibromoethane	8.56	107	234282	51.782	ug/L	99
51) Chlorobenzene	9.10	112	599372	51.835	ug/L	95
52) Ethylbenzene	9.23	91	1054737	49.241	ug/L	98
53) m,p-Xylene	9.35	106	392684	51.759	ug/L	95
54) o-xylene	9.76	106	384787	51.277	ug/L	96
55) Styrene	9.77	104	660647	52.011	ug/L	96
56) Isopropylbenzene	10.14	105	1001386	49.492	ug/L	98
58) 1,1,2,2-Tetrachloroethane	10.43	83	397047	49.243	ug/L	99
59) 1,2,3-Trichloropropane	10.47	75	303609	46.383	ug/L	97
61) Bromoform	9.94	173	170133	48.389	ug/L	100
62) 1,3-Dichlorobenzene	11.39	146	448973	50.769	ug/L	98
63) 1,4-Dichlorobenzene	11.49	146	452833	50.266	ug/L	98
65) 1,2-Dichlorobenzene	11.85	146	448316	50.172	ug/L	96
66) 1,2-Dibromo-3-chloropropan	12.63	75	84425	44.451	ug/L	83
67) 1,3,5-Trichlorobenzene	12.86	180	290351	49.002	ug/L	98
68) 1,2,4-trichlorobenzene	13.48	180	259879	55.773	ug/L	97
69) Naphthalene	13.72	128	989975	61.372	ug/L	99
70) 1,2,3-Trichlorobenzene	13.96	180	265613	55.400	ug/L	96

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



#2

Dichlorodifluoromethane

Concen: 45.088 ug/L

RT: 1.20 min Scan# 34

Delta R.T. -0.00 min

Lab File: VU034842.D

Acq: 26 Sep 2019 13:43

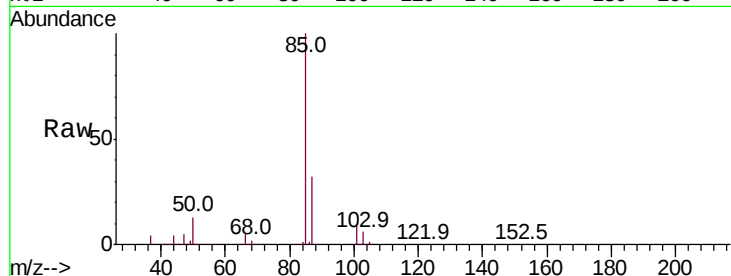
Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 85 Resp: 246988

Ion Ratio Lower Upper

85 100

87 32.0 25.5 38.3



Abundance Ion 85.00 (84.70 to 85.70): VU034765.D (-26) (-)

Ion 87.00 (86.70 to 87.70): VU034765.D (-26) (-)

1.20

250000

200000

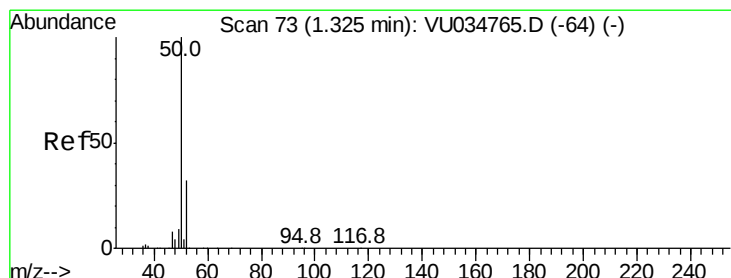
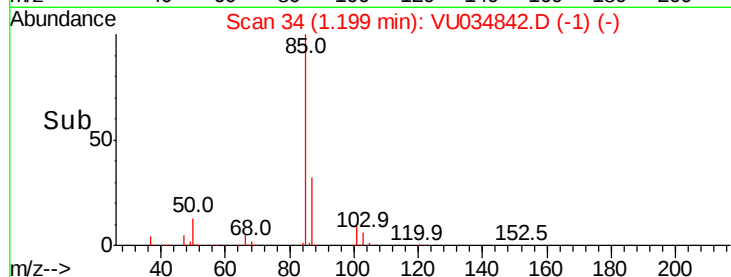
150000

100000

50000

0

Time-->



#3

Chloromethane

Concen: 45.536 ug/L

RT: 1.32 min Scan# 72

Delta R.T. -0.00 min

Lab File: VU034842.D

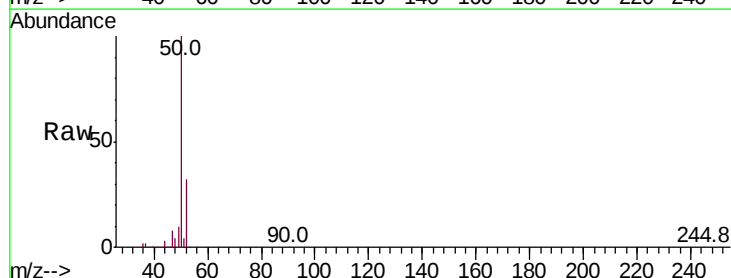
Acq: 26 Sep 2019 13:43

Tgt Ion: 50 Resp: 298797

Ion Ratio Lower Upper

50 100

52 32.1 22.7 42.1



Abundance Ion 50.00 (49.70 to 50.70): VU034765.D (-64) (-)

Ion 52.00 (51.70 to 52.70): VU034765.D (-64) (-)

1.32

300000

250000

200000

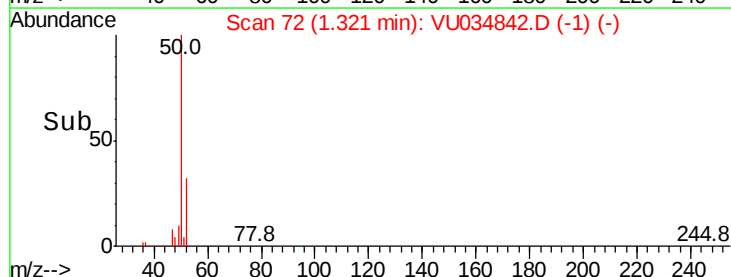
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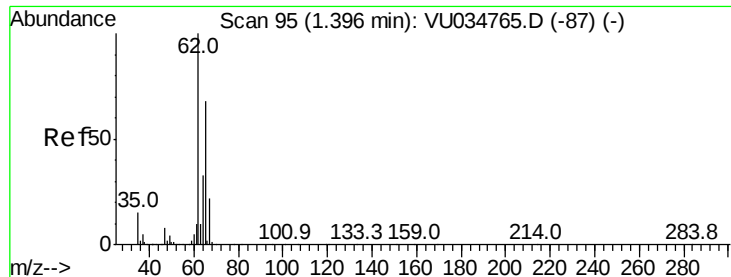
100000

50000

0

Time-->





#5

Vinyl chloride

Concen: 47.430 ug/L

RT: 1.40 min Scan# 95

Delta R.T. -0.00 min

Lab File: VU034842.D

Acq: 26 Sep 2019 13:43

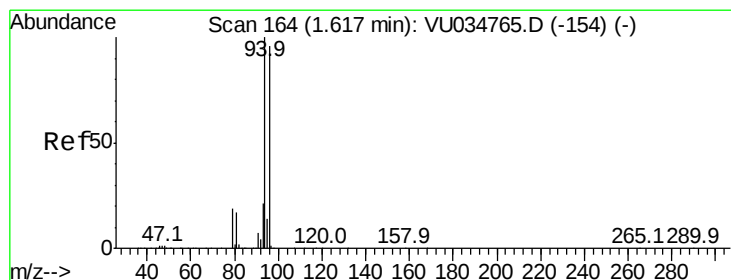
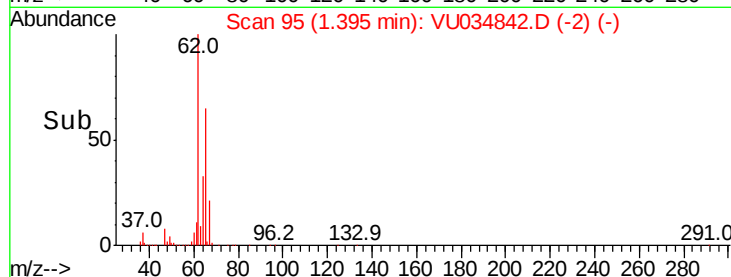
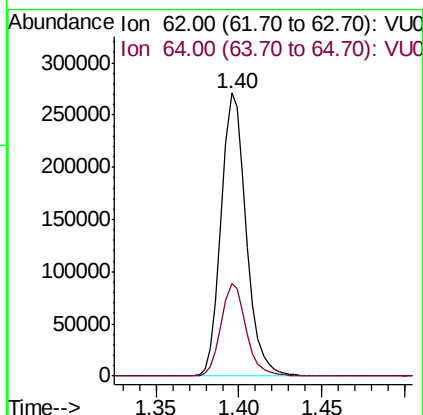
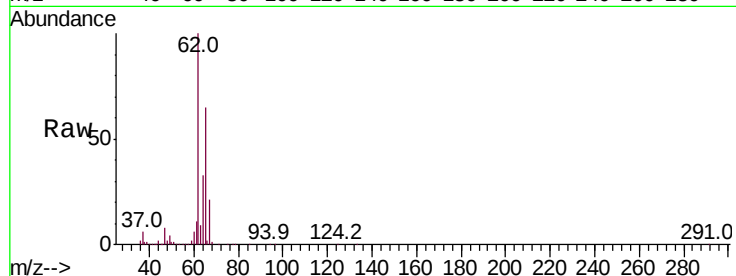
Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 62 Resp: 284247

Ion Ratio Lower Upper

62 100

64 32.6 22.2 41.2



#6

Bromomethane

Concen: 48.179 ug/L

RT: 1.61 min Scan# 163

Delta R.T. -0.00 min

Lab File: VU034842.D

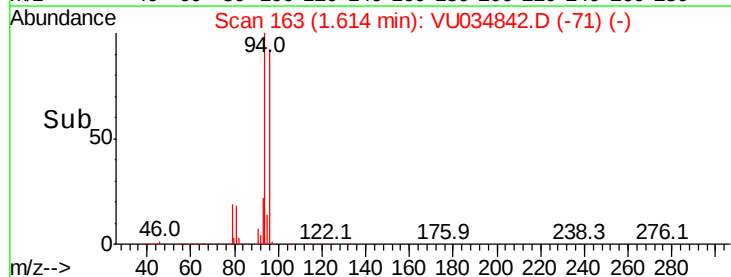
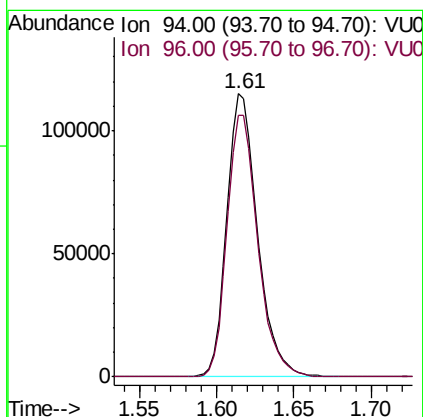
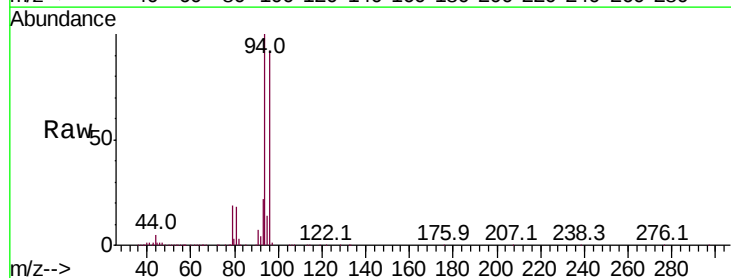
Acq: 26 Sep 2019 13:43

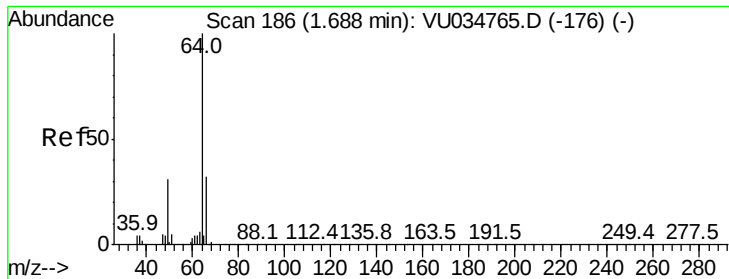
Tgt Ion: 94 Resp: 157697

Ion Ratio Lower Upper

94 100

96 92.4 62.8 116.6





#8

Chloroethane

Concen: 48.512 ug/L

RT: 1.69 min Scan# 186

Delta R.T. -0.00 min

Lab File: VU034842.D

Acq: 26 Sep 2019 13:43

Instrument :

MSVOA_U

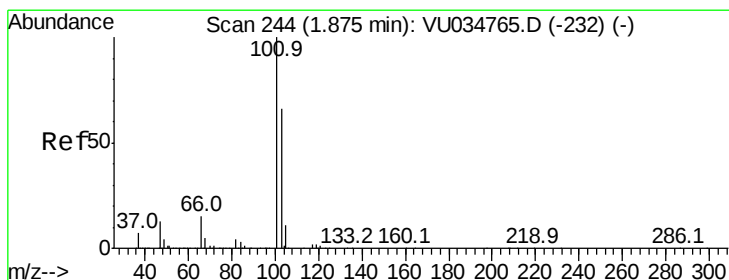
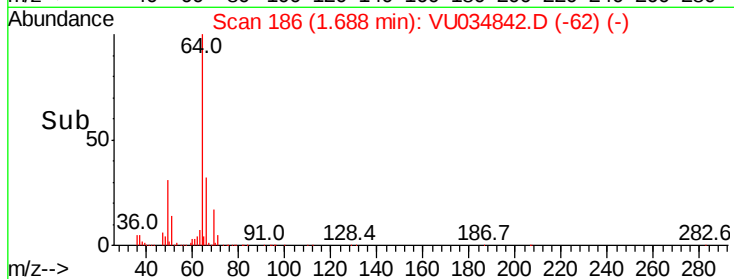
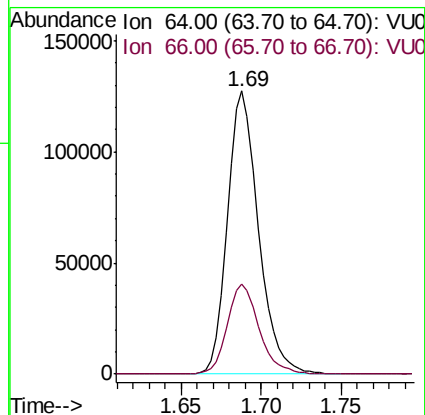
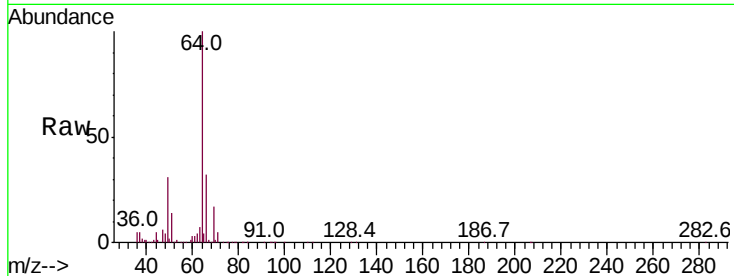
ClientSampleId :

Tot Ion: 64 Resp: 167371

Ion Ratio Lower Upper

64 100

66 32.0 23.1 42.9



#9

Trichlorofluoromethane

Concen: 47.733 ug/L

RT: 1.87 min Scan# 244

Delta R.T. -0.00 min

Lab File: VU034842.D

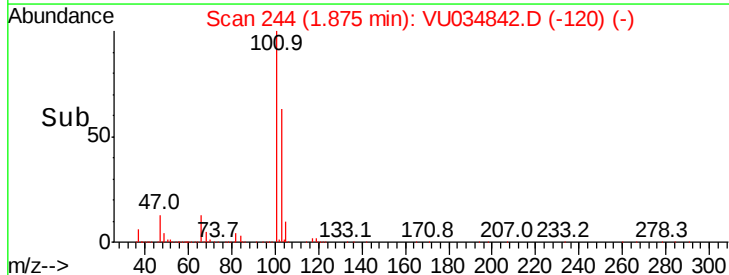
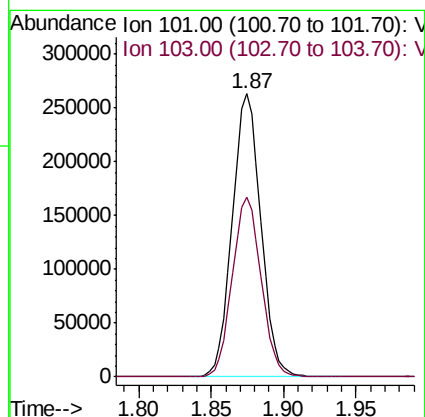
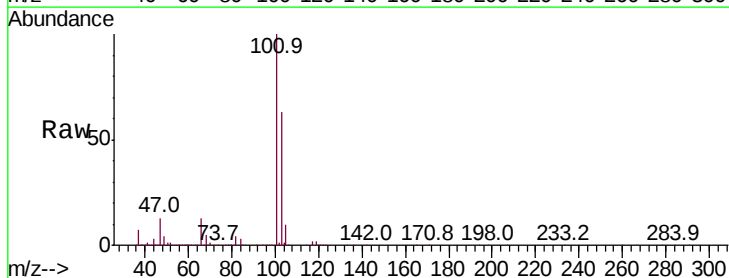
Acq: 26 Sep 2019 13:43

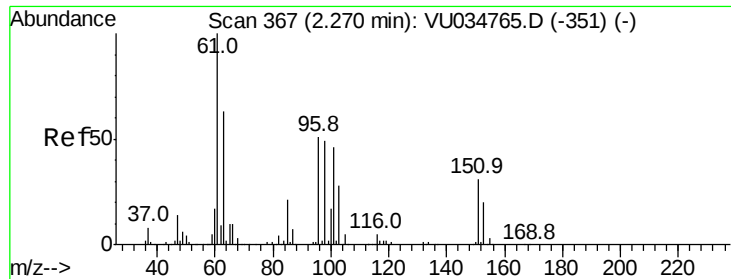
Tgt Ion: 101 Resp: 360694

Ion Ratio Lower Upper

101 100

103 63.8 51.8 77.8





#10

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

Concen: 52.391 ug/L

RT: 2.27 min Scan# 368

Delta R.T. -0.00 min

Lab File: VU034842.D

Acq: 26 Sep 2019 13:43

Instrument :

MSVOA_U

ClientSampleId :

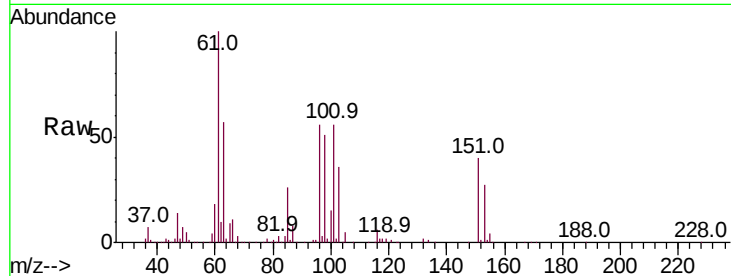
Tot Ion:101 Resp: 189820

Ion Ratio Lower Upper

101 100

85 45.9 39.0 58.4

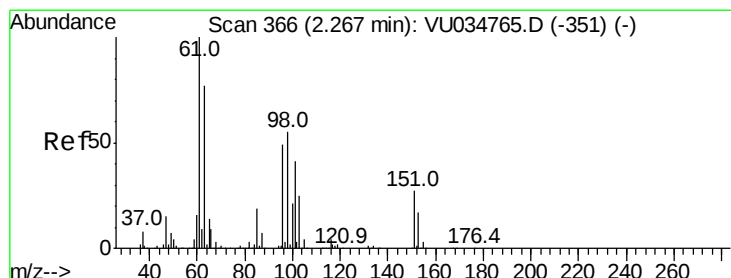
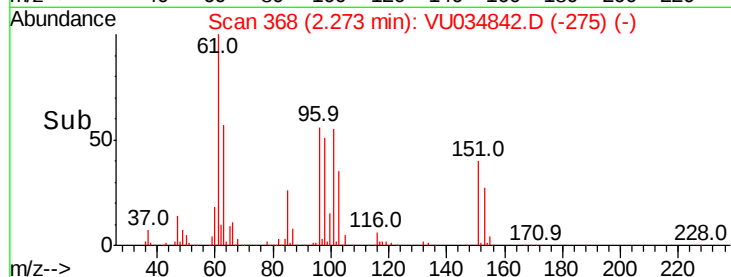
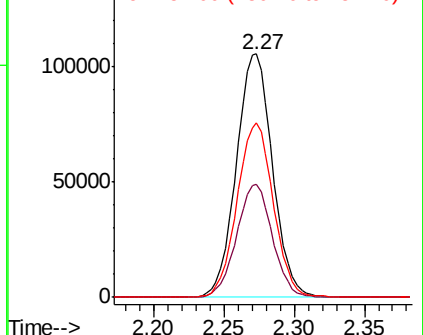
151 71.8 52.8 79.2



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: 52.998 ug/L

RT: 2.27 min Scan# 366

Delta R.T. -0.00 min

Lab File: VU034842.D

Acq: 26 Sep 2019 13:43

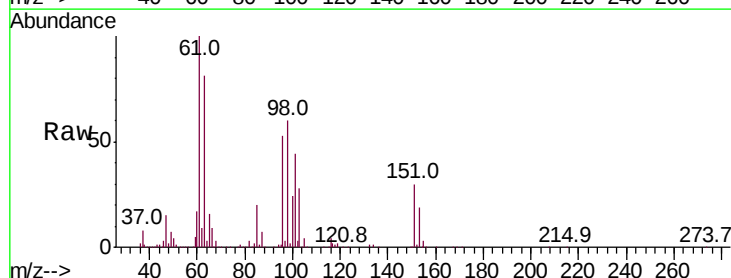
Tgt Ion: 96 Resp: 184293

Ion Ratio Lower Upper

96 100

61 188.8 153.2 284.4

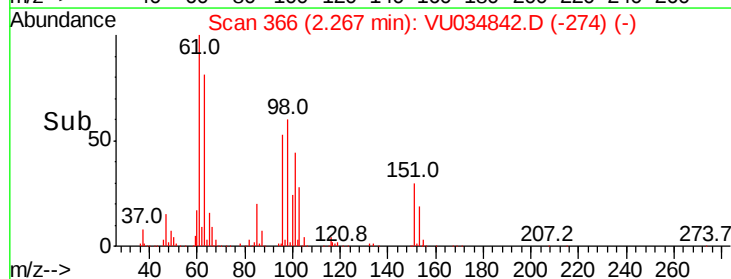
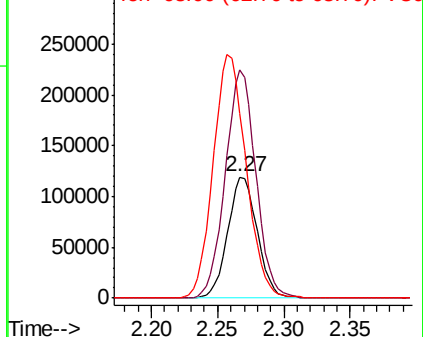
63 152.8 113.8 211.3

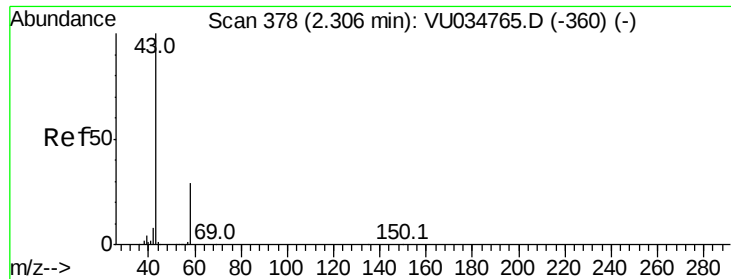


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 82.681 ug/L

RT: 2.31 min Scan# 378

Delta R.T. -0.00 min

Lab File: VU034842.D

Acq: 26 Sep 2019 13:43

Instrument :

MSVOA_U

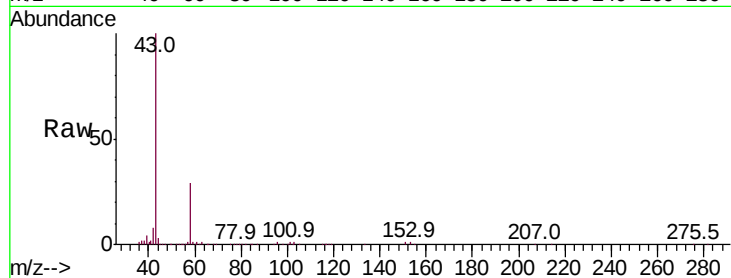
ClientSampled :

Tot Ion: 43 Resp: 401079

Ion Ratio Lower Upper

43 100

58 29.4 0.0 53.4



Abundance Ion 43.00 (42.70 to 43.70): VU034765.D (-360) (-)

Ion 58.00 (57.70 to 58.70): VU034765.D (-360) (-)

2.31

250000

200000

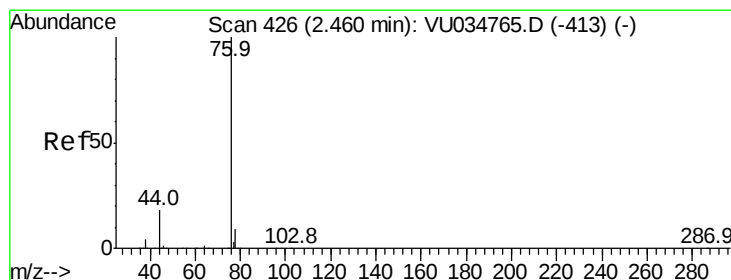
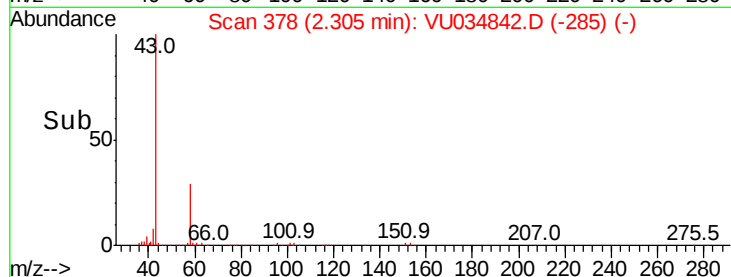
150000

100000

50000

0

Time--> 2.20 2.25 2.30 2.35 2.40



#14

Carbon disulfide

Concen: 47.018 ug/L

RT: 2.46 min Scan# 427

Delta R.T. -0.00 min

Lab File: VU034842.D

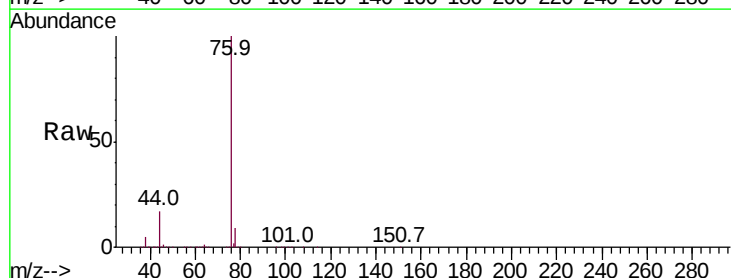
Acq: 26 Sep 2019 13:43

Tgt Ion: 76 Resp: 551663

Ion Ratio Lower Upper

76 100

78 8.8 6.9 10.3



Abundance Ion 76.00 (75.70 to 76.70): VU034765.D (-413) (-)

Ion 78.00 (77.70 to 78.70): VU034765.D (-413) (-)

2.46

400000

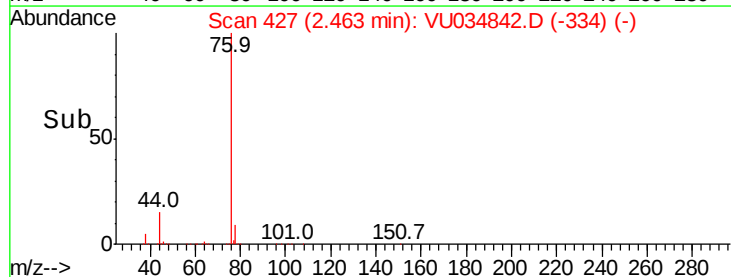
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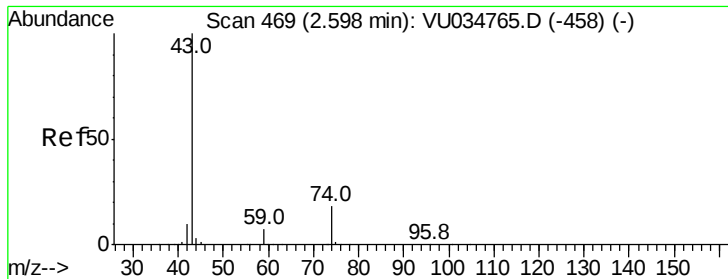
200000

100000

0

Time--> 2.40 2.45 2.50 2.55

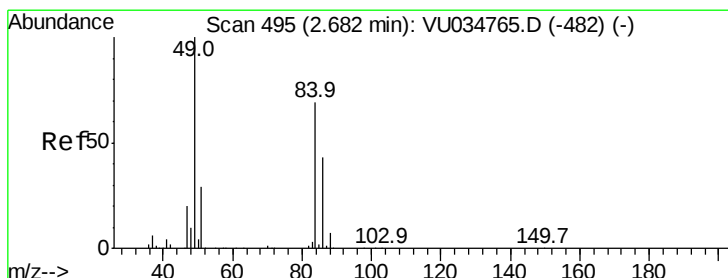
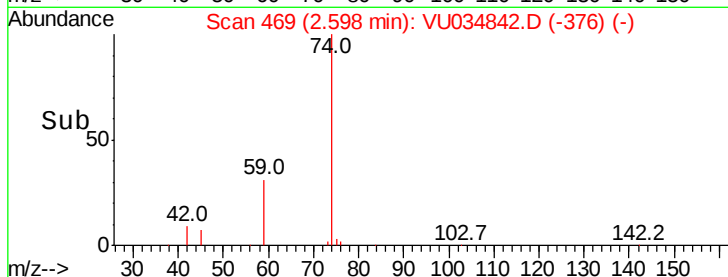
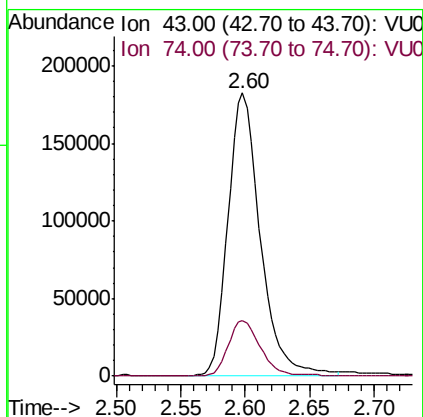
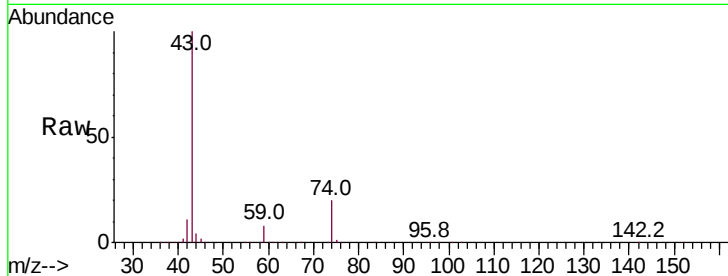




#15
Methvl Acetate
Concen: 48.579 ug/L
RT: 2.60 min Scan# 469
Delta R.T. -0.00 min
Lab File: VU034842.D
Acq: 26 Sep 2019 13:43

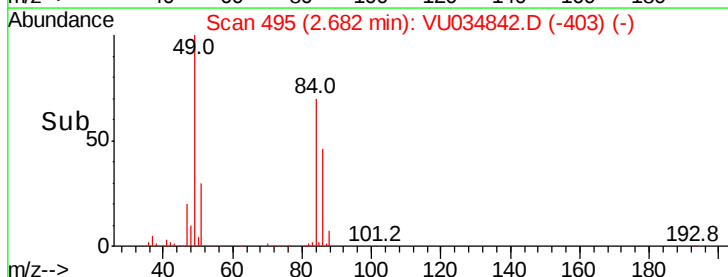
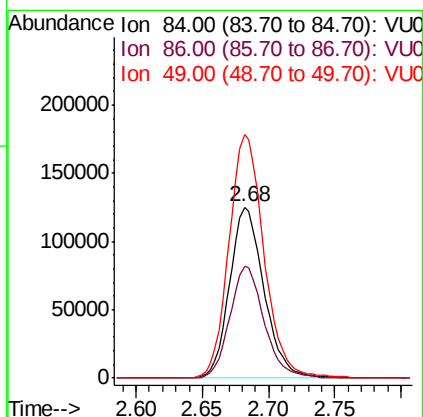
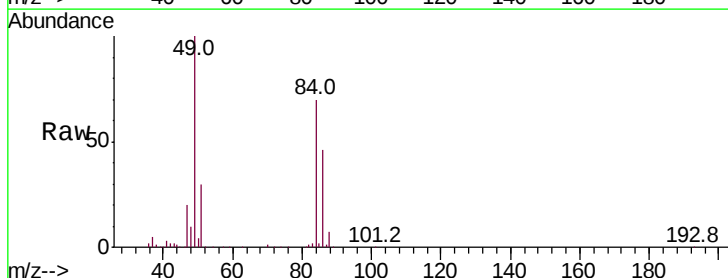
Instrument :
MSVOA_U
ClientSampled :

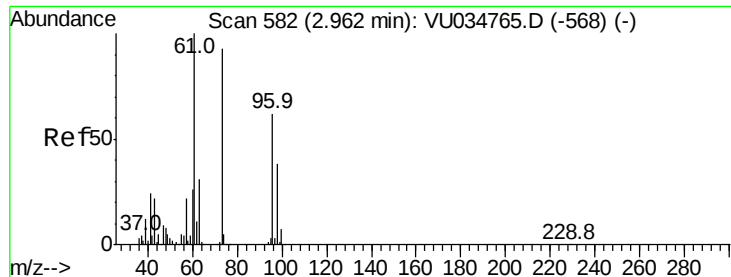
Tot Ion: 43 Resp: 314785
Ion Ratio Lower Upper
43 100
74 19.9 14.4 21.6



#16
Methylene chloride
Concen: 51.387 ug/L
RT: 2.68 min Scan# 495
Delta R.T. -0.00 min
Lab File: VU034842.D
Acq: 26 Sep 2019 13:43

Tgt Ion: 84 Resp: 226350
Ion Ratio Lower Upper
84 100
86 65.0 43.0 80.0
49 142.3 109.7 203.7





#17

trans-1,2-Dichloroethene

Concen: 53.003 ug/L

RT: 2.96 min Scan# 582

Delta R.T. -0.00 min

Lab File: VU034842.D

Acq: 26 Sep 2019 13:43

Instrument :
MSVOA_U
ClientSampleId :

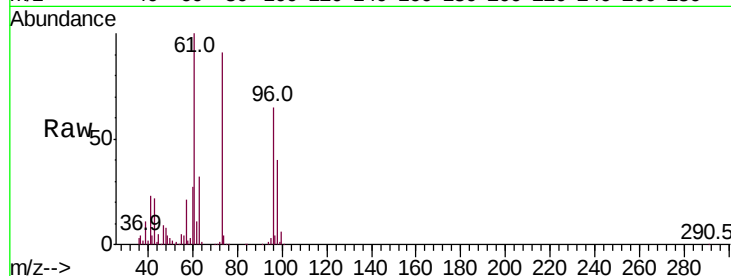
Tot Ion: 96 Resp: 201514

Ion Ratio Lower Upper

96 100

61 153.6 124.0 230.4

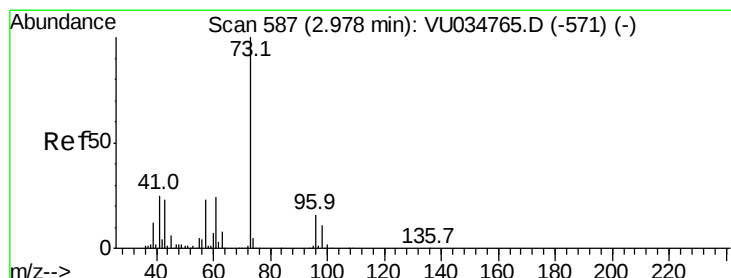
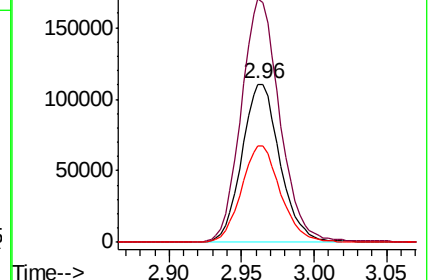
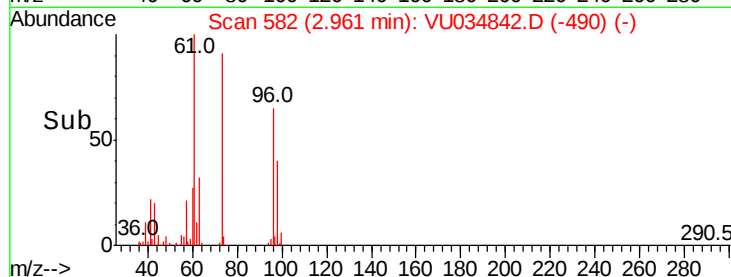
98 61.0 46.1 85.7



Abundance Ion 96.00 (95.70 to 96.70): VU034842.D (-490) (-)

Ion 61.00 (60.70 to 61.70): VU034842.D (-490) (-)

Ion 98.00 (97.70 to 98.70): VU034842.D (-490) (-)



#18

Methyl tert-butyl Ether

Concen: 49.391 ug/L

RT: 2.98 min Scan# 587

Delta R.T. -0.00 min

Lab File: VU034842.D

Acq: 26 Sep 2019 13:43

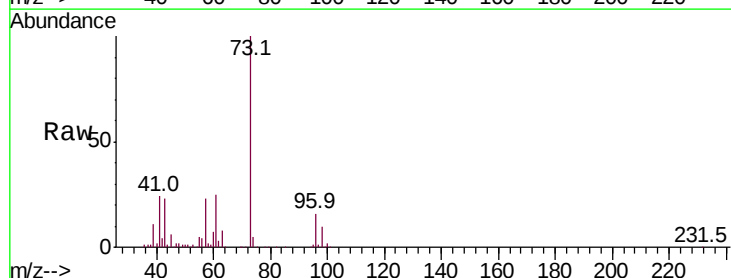
Tgt Ion: 73 Resp: 696652

Ion Ratio Lower Upper

73 100

43 22.8 20.9 31.3

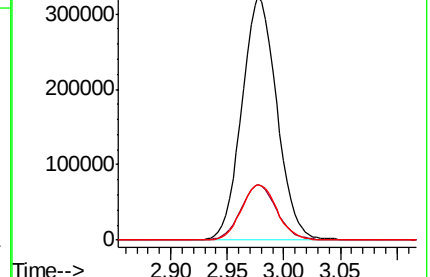
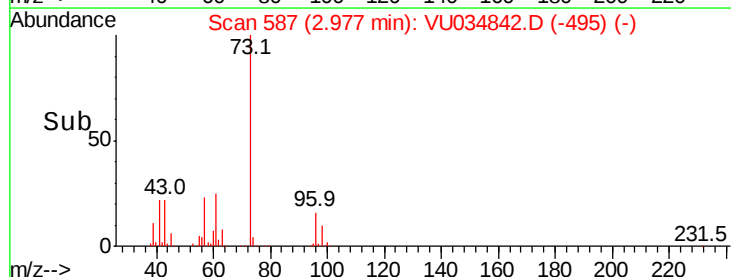
57 23.1 19.5 29.3

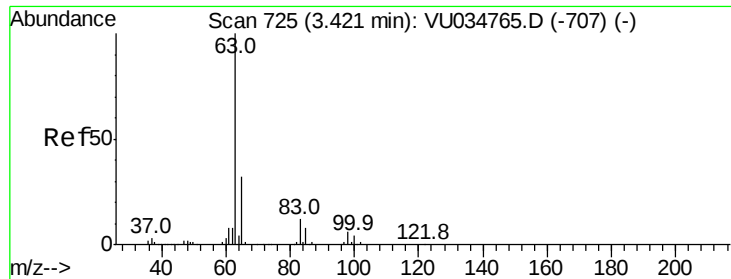


Abundance Ion 73.00 (72.70 to 73.70): VU034842.D (-495) (-)

Ion 43.00 (42.70 to 43.70): VU034842.D (-495) (-)

Ion 57.00 (56.70 to 57.70): VU034842.D (-495) (-)





#19

1,1-Dichloroethane

Concen: 48.016 ug/L

RT: 3.42 min Scan# 725

Delta R.T. -0.00 min

Lab File: VU034842.D

Acq: 26 Sep 2019 13:43

Instrument :

MSVOA_U

ClientSampled :

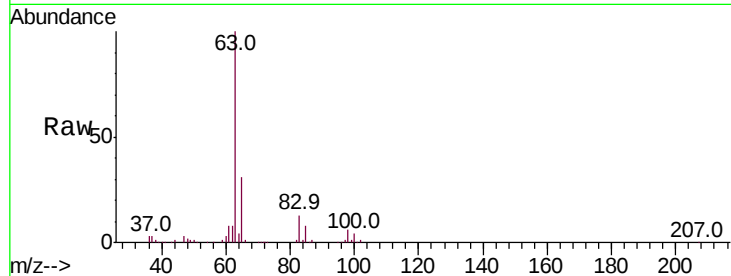
Tot Ion: 63 Resp: 418782

Ion Ratio Lower Upper

63 100

65 31.2 22.0 40.8

83 13.1 8.9 16.5

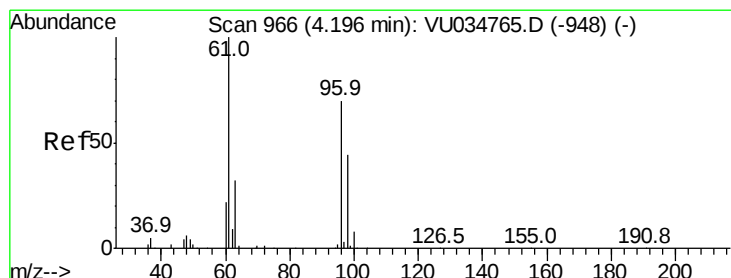
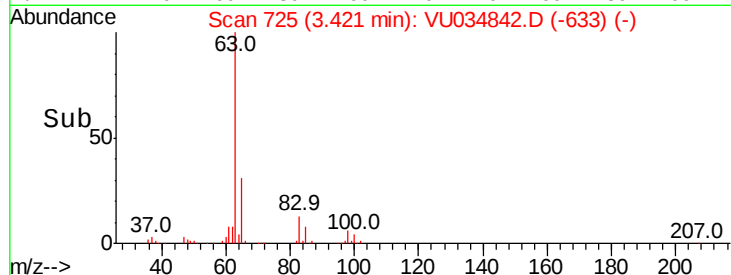
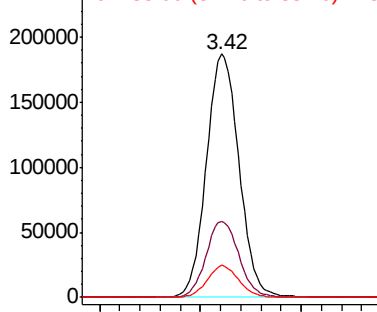


Abundance Ion 63.00 (62.70 to 63.70): VU034842.D (-707) (-)

250000

Ion 65.00 (64.70 to 65.70): VU034842.D (-707) (-)

Ion 83.00 (82.70 to 83.70): VU034842.D (-707) (-)



#20

cis-1,2-Dichloroethene

Concen: 51.520 ug/L

RT: 4.20 min Scan# 967

Delta R.T. -0.00 min

Lab File: VU034842.D

Acq: 26 Sep 2019 13:43

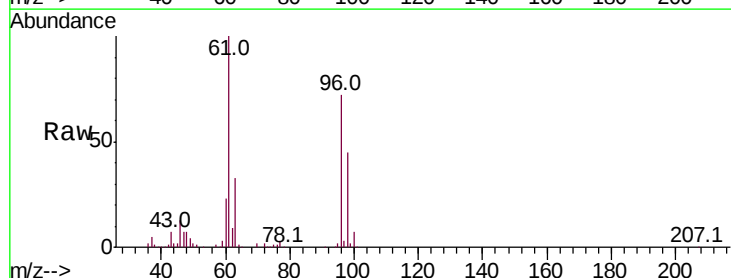
Tgt Ion: 96 Resp: 229027

Ion Ratio Lower Upper

96 100

61 139.0 108.8 202.2

68 0.0 0.0 0.0

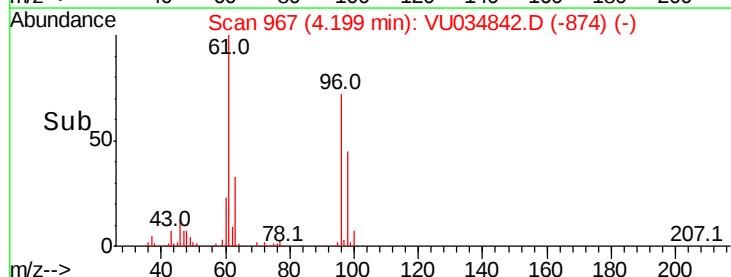
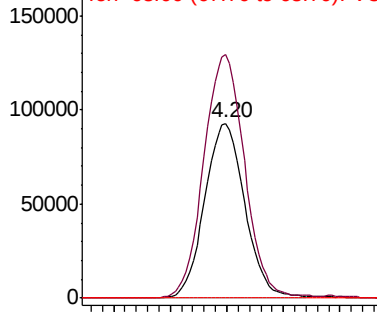


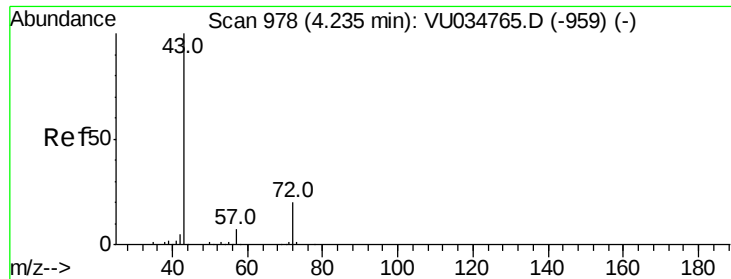
Abundance Ion 96.00 (95.70 to 96.70): VU034842.D (-874) (-)

150000

Ion 61.00 (60.70 to 61.70): VU034842.D (-874) (-)

Ion 68.00 (67.70 to 68.70): VU034842.D (-874) (-)





#22

2-Butanone

Concen: 88.621 ug/L

RT: 4.23 min Scan# 977

Delta R.T. -0.00 min

Lab File: VU034842.D

Acq: 26 Sep 2019 13:43

Instrument :

MSVOA_U

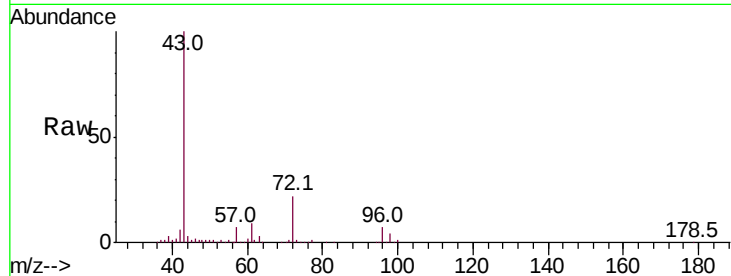
ClientSampleId :

Tot Ion: 43 Resp: 511431

Ion Ratio Lower Upper

43 100

72 22.2 10.2 30.6



Abundance Ion 43.00 (42.70 to 43.70): VU034765.D (-959) (-)

Ion 72.00 (71.70 to 72.70): VU034765.D (-959) (-)

4.23

200000

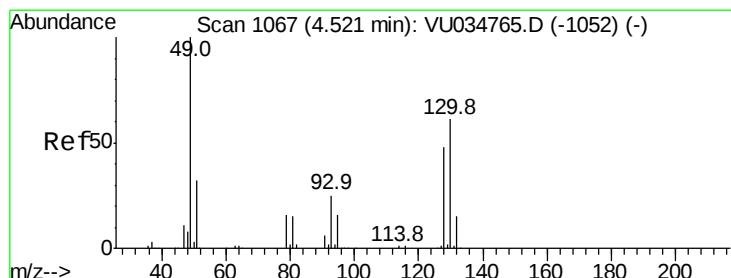
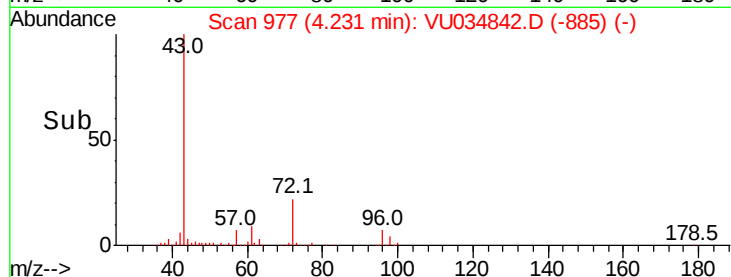
150000

100000

50000

0

Time--> 4.10 4.20 4.30



#23

Bromochloromethane

Concen: 52.134 ug/L

RT: 4.52 min Scan# 1068

Delta R.T. -0.00 min

Lab File: VU034842.D

Acq: 26 Sep 2019 13:43

Tgt Ion:128 Resp: 110929

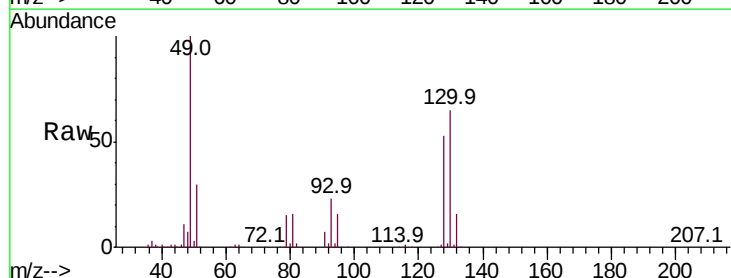
Ion Ratio Lower Upper

128 100

49 187.2 154.3 286.7

130 121.0 83.0 154.2

51 55.6 56.4 84.6#



Abundance Ion 128.00 (127.70 to 128.70): VU034765.D (-1052) (-)

Ion 49.00 (48.70 to 49.70): VU034765.D (-1052) (-)

Ion 130.00 (129.70 to 130.70): VU034765.D (-1052) (-)

Ion 51.00 (50.70 to 51.70): VU034765.D (-1052) (-)

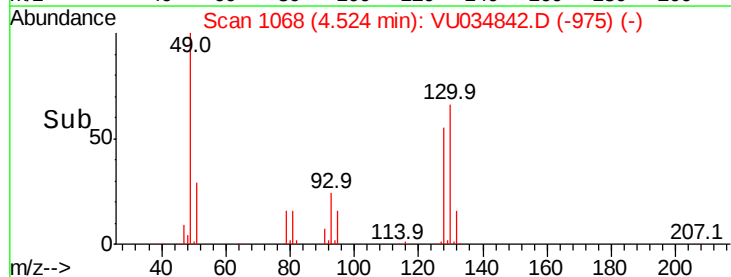
4.52

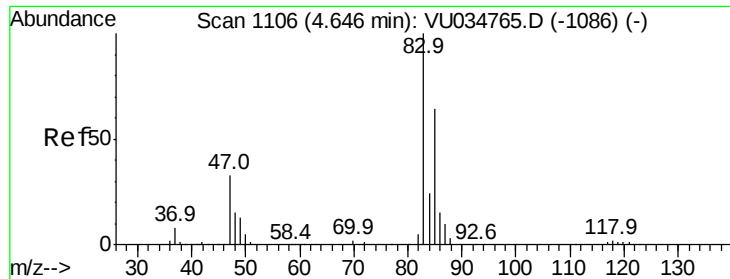
100000

50000

0

Time--> 4.45 4.50 4.55 4.60

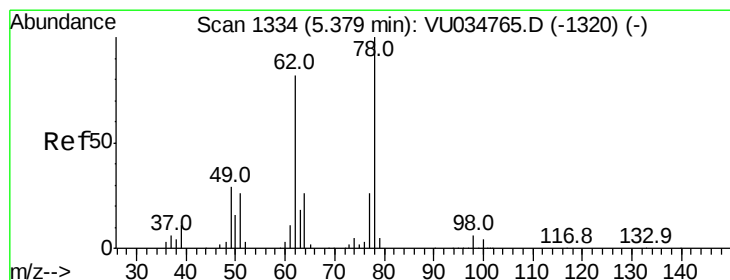
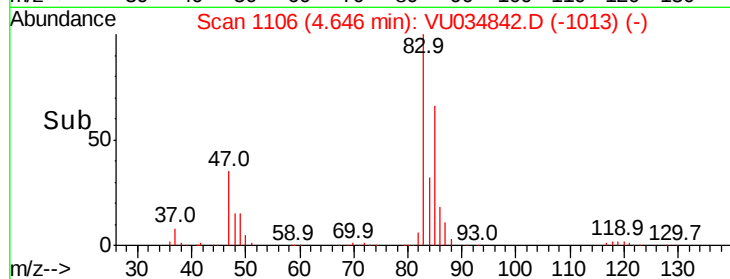
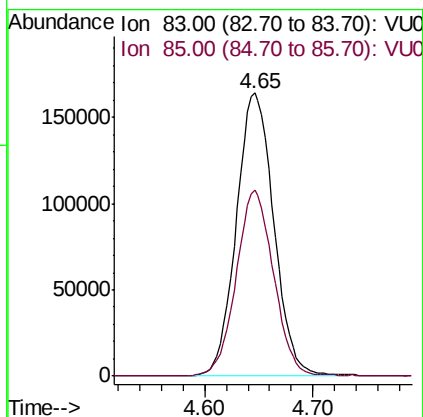
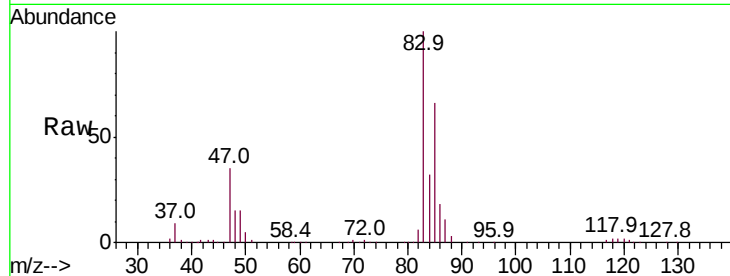




#25
Chloroform
Concen: 46.193 ug/L
RT: 4.65 min Scan# 1106
Delta R.T. -0.00 min
Lab File: VU034842.D
Acq: 26 Sep 2019 13:43

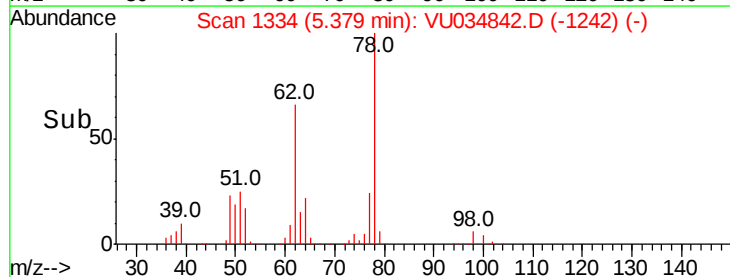
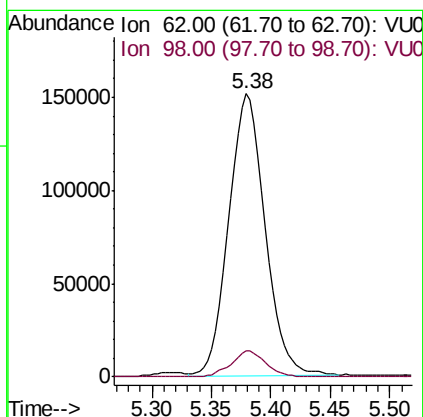
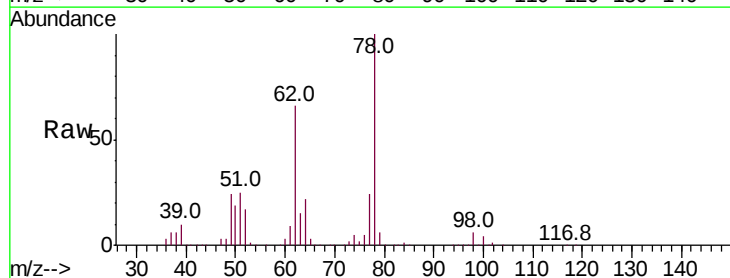
Instrument :
MSVOA_U
ClientSampleId :

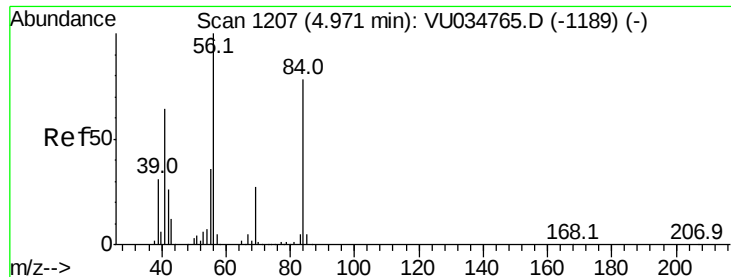
Tot Ion: 83 Resp: 396729
Ion Ratio Lower Upper
83 100
85 65.8 44.0 81.6



#27
1,2-Dichloroethane
Concen: 43.037 ug/L
RT: 5.38 min Scan# 1334
Delta R.T. -0.00 min
Lab File: VU034842.D
Acq: 26 Sep 2019 13:43

Tgt Ion: 62 Resp: 319295
Ion Ratio Lower Upper
62 100
98 9.1 5.3 7.9#

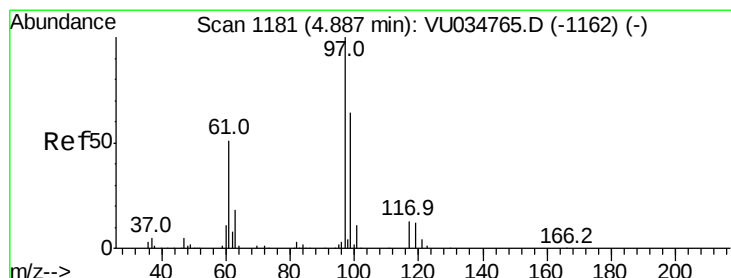
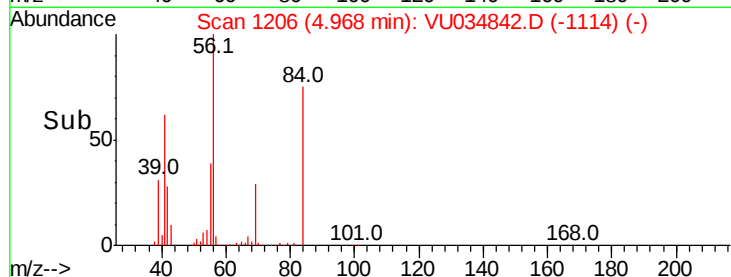
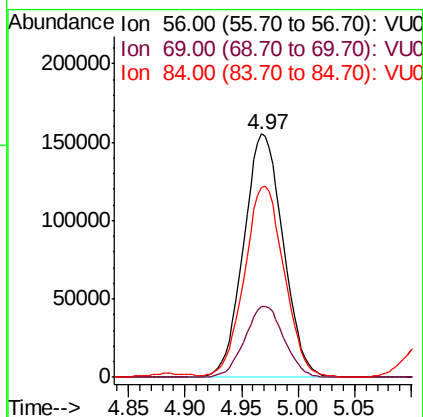
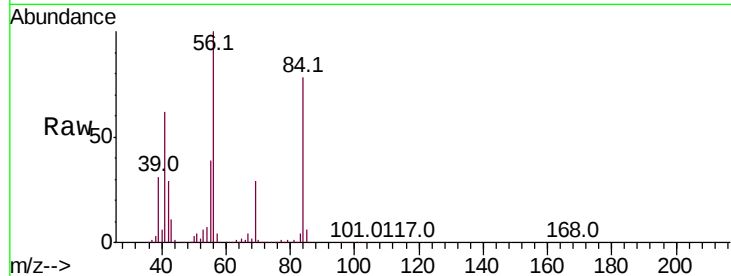




#29
Cyclohexane
Concen: 45.009 ug/L
RT: 4.97 min Scan# 1206
Delta R.T. -0.00 min
Lab File: VU034842.D
Acq: 26 Sep 2019 13:43

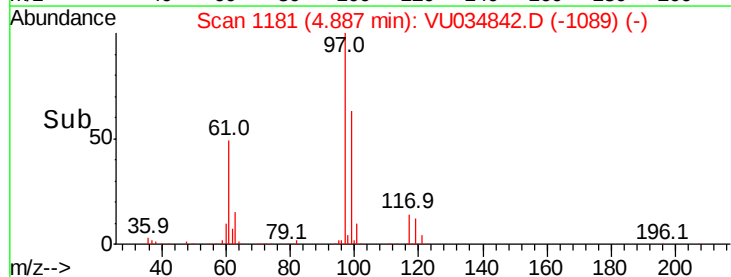
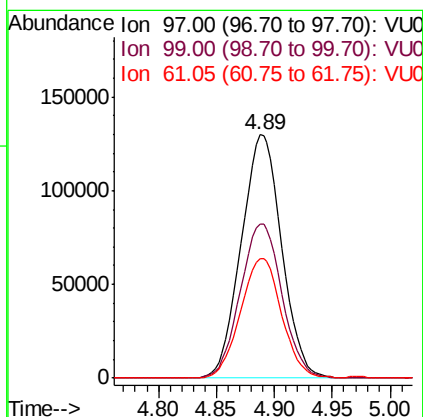
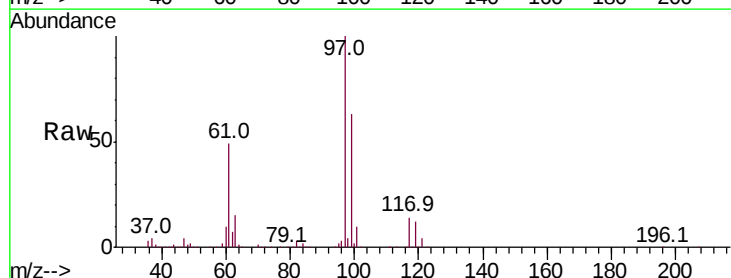
Instrument :
MSVOA_U
ClientSampleId :

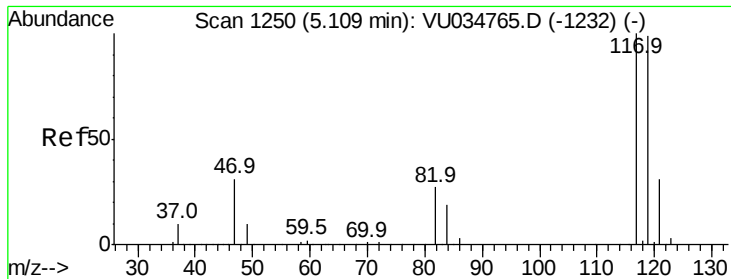
Tot Ion: 56 Resp: 377011
Ion Ratio Lower Upper
56 100
69 28.9 21.7 32.5
84 78.7 58.8 88.2



#30
1,1,1-Trichloroethane
Concen: 45.741 ug/L
RT: 4.89 min Scan# 1181
Delta R.T. -0.00 min
Lab File: VU034842.D
Acq: 26 Sep 2019 13:43

Tgt Ion: 97 Resp: 315933
Ion Ratio Lower Upper
97 100
99 65.2 51.8 77.8
61 50.0 43.4 65.0





#31

Carbon tetrachloride

Concen: 47.398 ug/L

RT: 5.11 min Scan# 1250

Delta R.T. -0.00 min

Lab File: VU034842.D

Acq: 26 Sep 2019 13:43

Instrument :

MSVOA_U

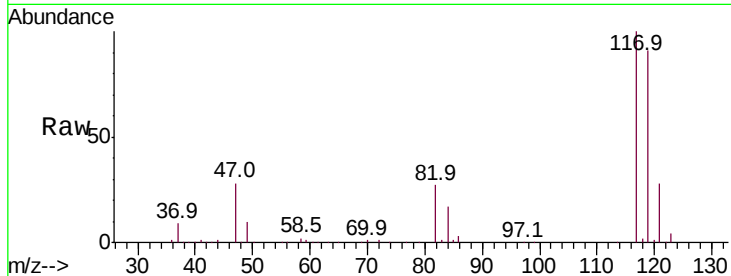
ClientSampled :

Tot Ion:117 Resp: 279015

Ion Ratio Lower Upper

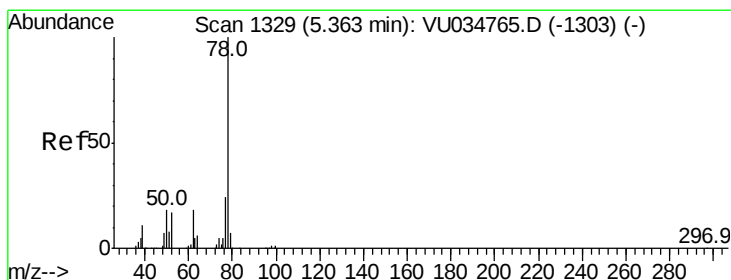
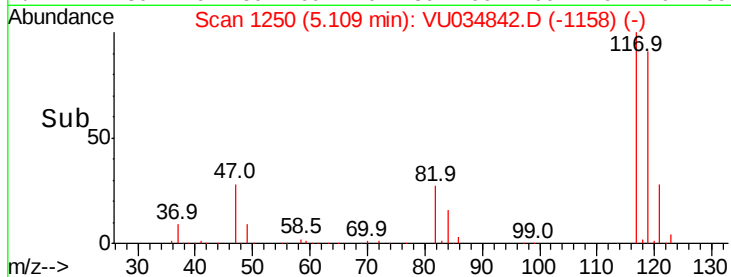
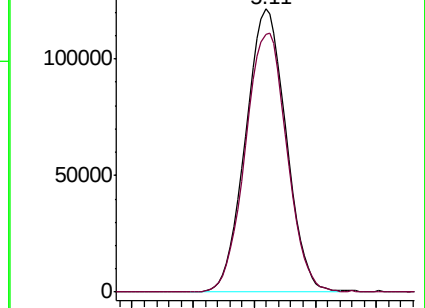
117 100

119 93.9 74.8 112.2



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V



#33

Benzene

Concen: 49.917 ug/L

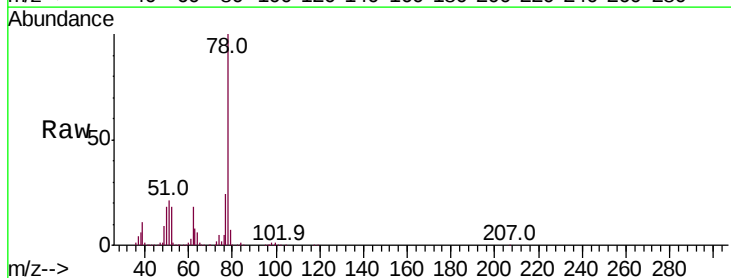
RT: 5.36 min Scan# 1329

Delta R.T. -0.00 min

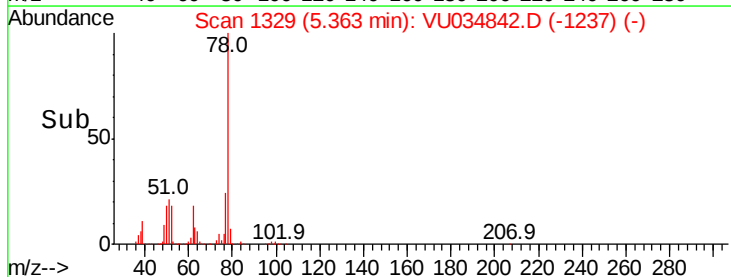
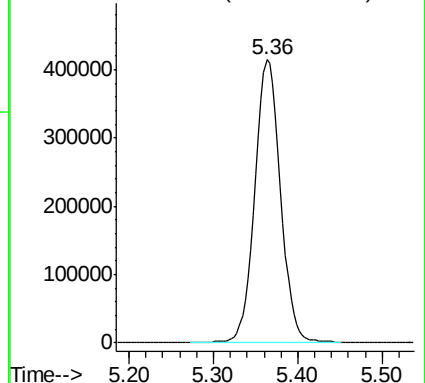
Lab File: VU034842.D

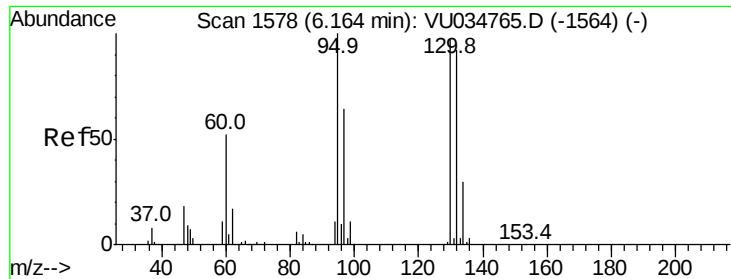
Acq: 26 Sep 2019 13:43

Tgt Ion: 78 Resp: 878580



Abundance Ion 78.00 (77.70 to 78.70): VU0

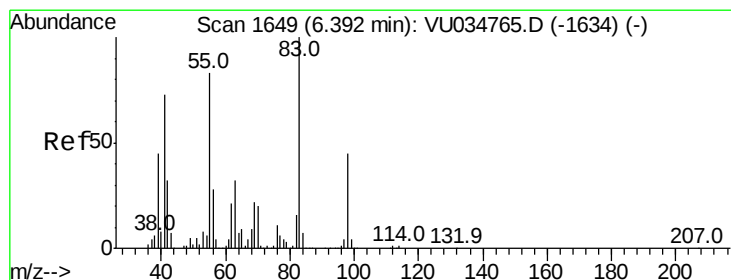
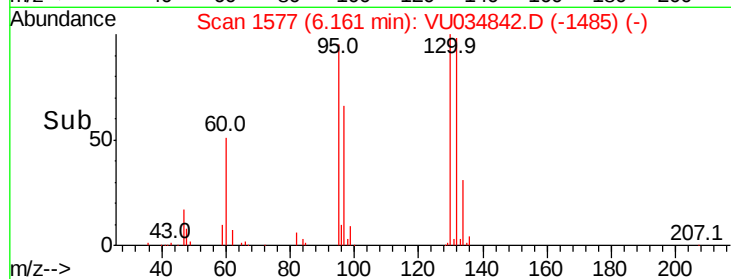
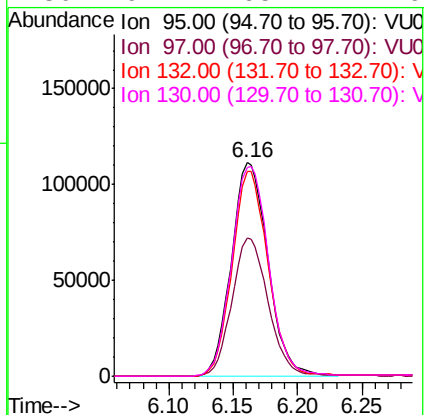
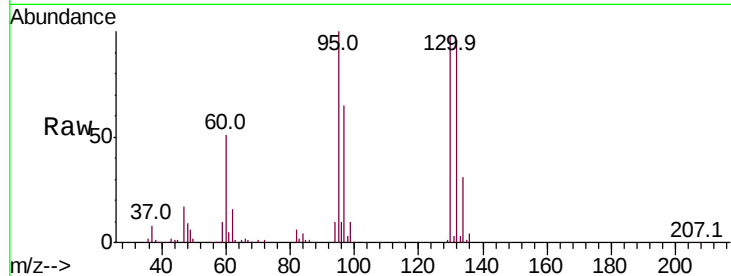




#34
 Trichloroethene
 Concen: 50.685 ug/L
 RT: 6.16 min Scan# 1577
 Delta R.T. -0.00 min
 Lab File: VU034842.D
 Acq: 26 Sep 2019 13:43

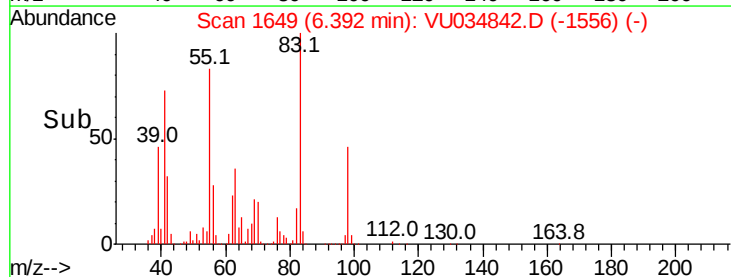
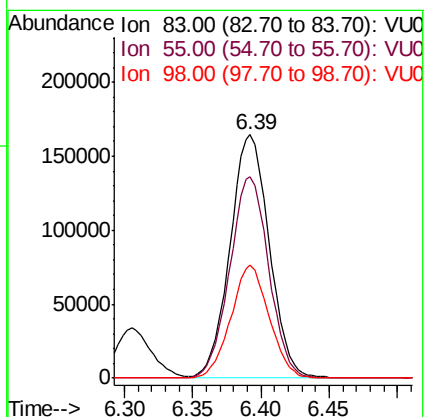
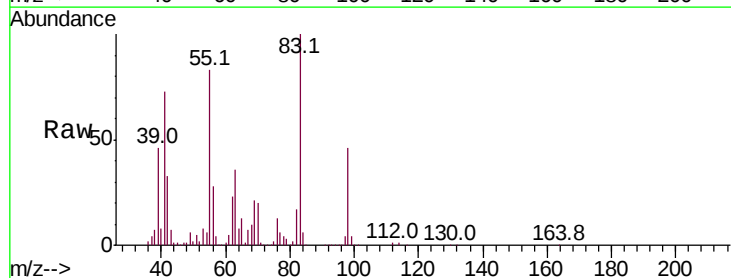
Instrument :
 MSVOA_U
 ClientSampleId :

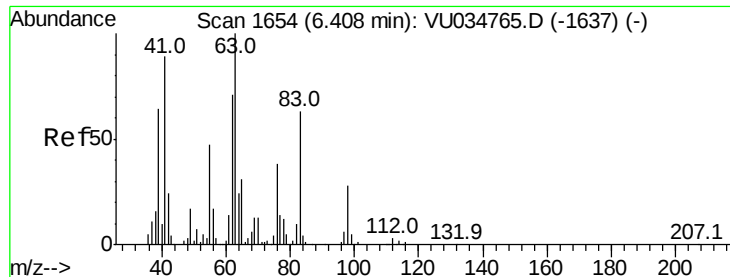
Tot Ion: 95 Resp: 220321
 Ion Ratio Lower Upper
 95 100
 97 64.6 43.7 81.1
 132 95.9 61.0 113.2
 130 97.7 65.7 121.9



#35
 Methylcyclohexane
 Concen: 44.380 ug/L
 RT: 6.39 min Scan# 1649
 Delta R.T. -0.00 min
 Lab File: VU034842.D
 Acq: 26 Sep 2019 13:43

Tgt Ion: 83 Resp: 327375
 Ion Ratio Lower Upper
 83 100
 55 82.3 71.6 107.4
 98 45.4 35.7 53.5





#37

1,2-Dichloropropane

Concen: 48.278 ug/L

RT: 6.41 min Scan# 1654

Delta R.T. -0.00 min

Lab File: VU034842.D

Acq: 26 Sep 2019 13:43

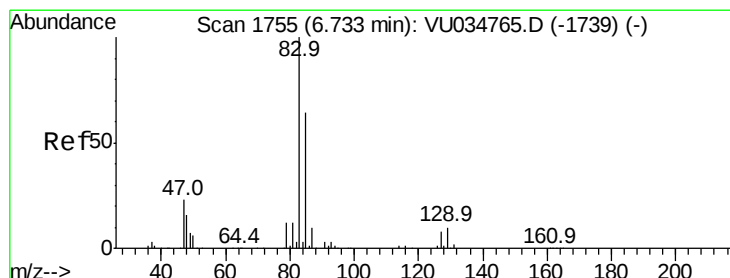
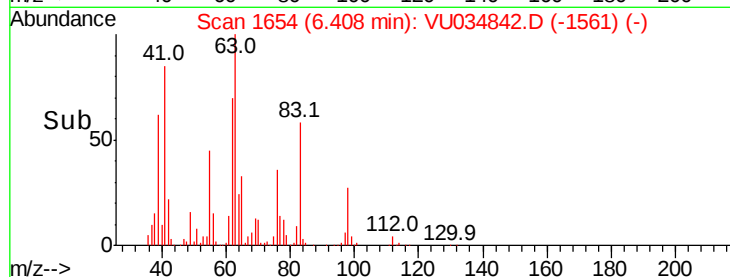
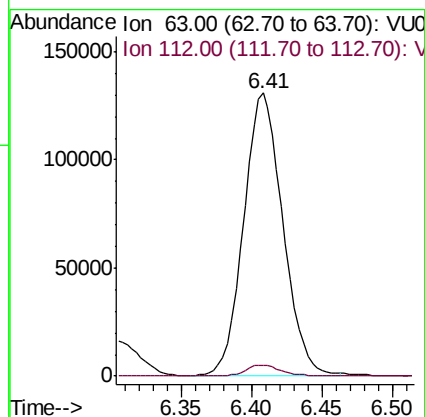
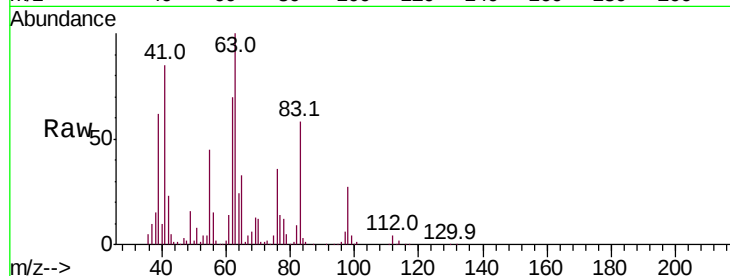
Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 63 Resp: 253021

Ion Ratio Lower Upper

63 100

112 3.6 2.4 3.6#



#38

Bromodichloromethane

Concen: 46.470 ug/L

RT: 6.73 min Scan# 1755

Delta R.T. -0.00 min

Lab File: VU034842.D

Acq: 26 Sep 2019 13:43

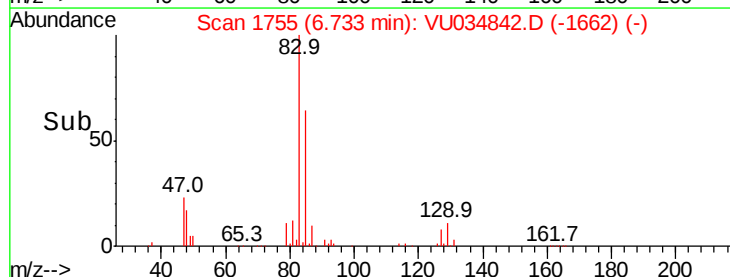
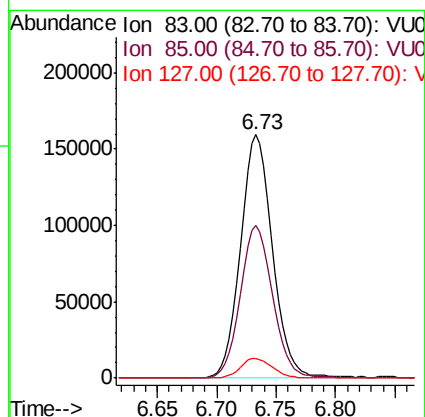
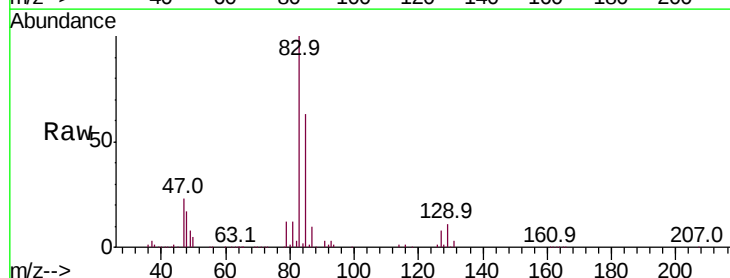
Tgt Ion: 83 Resp: 295352

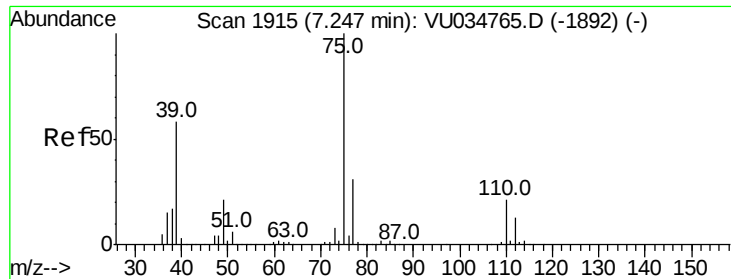
Ion Ratio Lower Upper

83 100

85 62.8 45.5 84.5

127 8.2 6.1 9.1

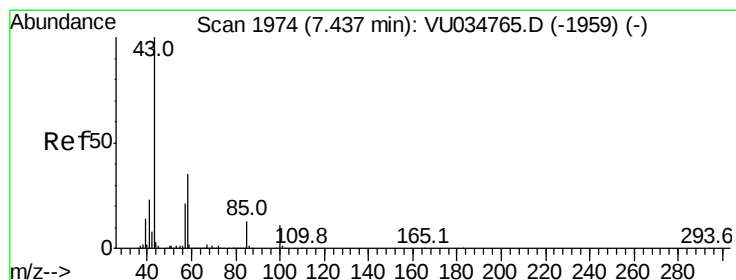
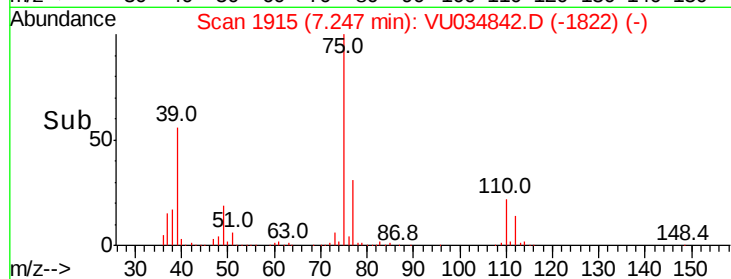
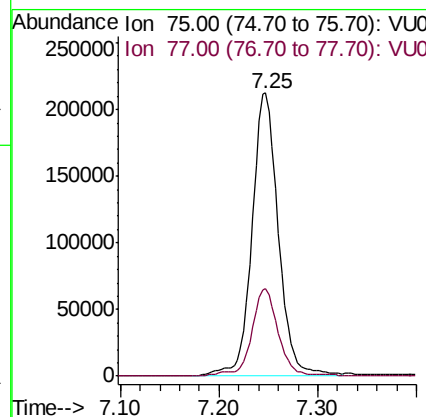
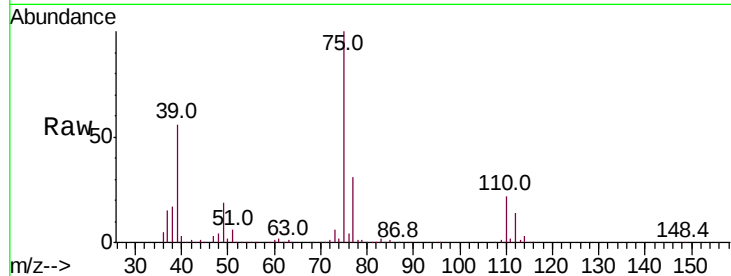




#39
 cis-1,3-Dichloropropene
 Concen: 49.838 ug/L
 RT: 7.25 min Scan# 1915
 Delta R.T. -0.00 min
 Lab File: VU034842.D
 Acq: 26 Sep 2019 13:43

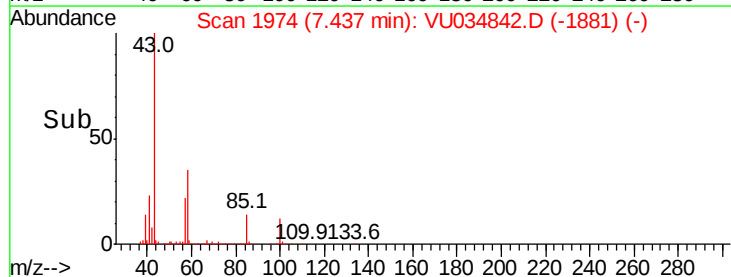
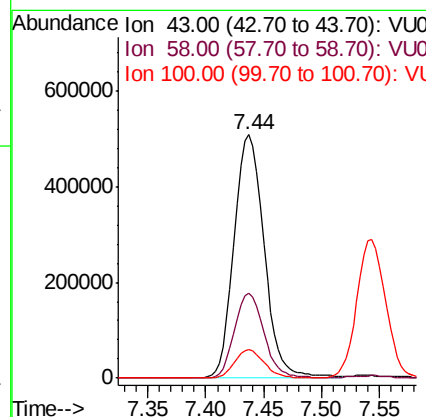
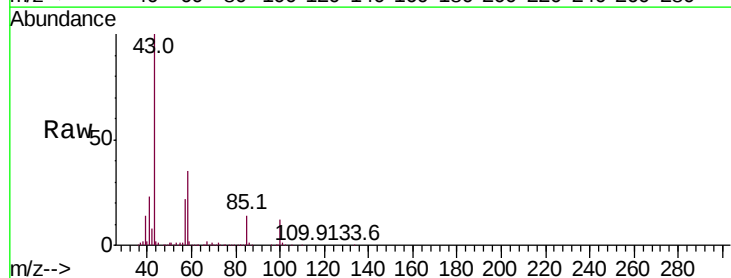
Instrument :
 MSVOA_U
 ClientSampleId :

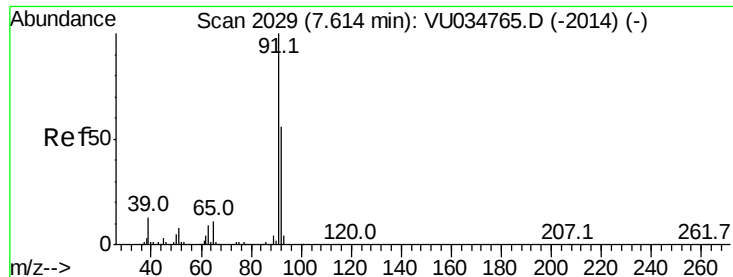
Tot Ion: 75 Resp: 392460
 Ion Ratio Lower Upper
 75 100
 77 31.0 21.4 39.8



#40
 4-Methyl-2-pentanone
 Concen: 91.276 ug/L
 RT: 7.44 min Scan# 1974
 Delta R.T. -0.00 min
 Lab File: VU034842.D
 Acq: 26 Sep 2019 13:43

Tgt Ion: 43 Resp: 913280
 Ion Ratio Lower Upper
 43 100
 58 34.1 25.2 37.8
 100 11.4 7.7 11.5





#42

Toluene

Concen: 50.827 ug/L

RT: 7.61 min Scan# 2029

Delta R.T. -0.00 min

Lab File: VU034842.D

Acq: 26 Sep 2019 13:43

Instrument :

MSVOA_U

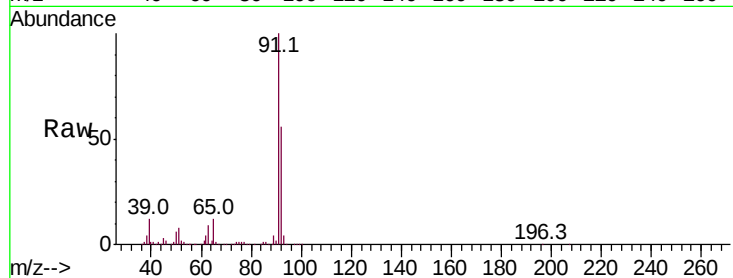
ClientSampleId :

Tot Ion: 91 Resp: 966808

Ion Ratio Lower Upper

91 100

92 56.3 38.2 71.0



Abundance Ion 91.00 (90.70 to 91.70): VU034842.D (-1936) (-)

Ion 92.00 (91.70 to 92.70): VU034842.D (-1936) (-)

600000

500000

400000

300000

200000

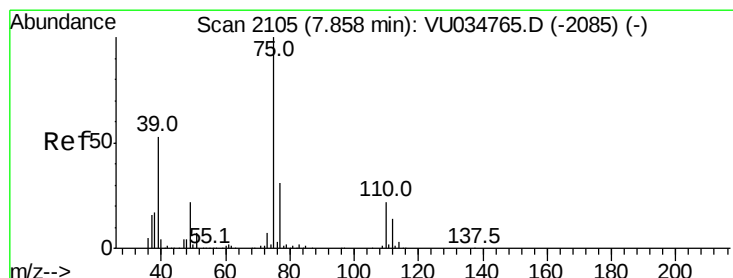
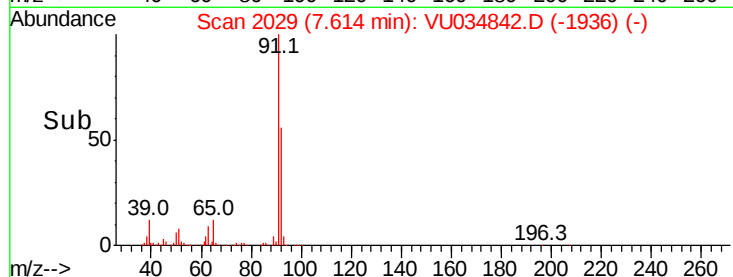
100000

0

7.55 7.60 7.65 7.70

7.61

Time-->



#44

trans-1,3-Dichloropropene

Concen: 48.138 ug/L

RT: 7.86 min Scan# 2105

Delta R.T. -0.00 min

Lab File: VU034842.D

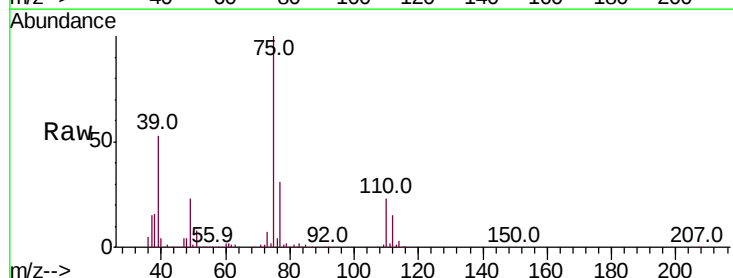
Acq: 26 Sep 2019 13:43

Tgt Ion: 75 Resp: 341732

Ion Ratio Lower Upper

75 100

77 31.2 21.4 39.8



Abundance Ion 75.00 (74.70 to 75.70): VU034842.D (-2012) (-)

Ion 77.00 (76.70 to 77.70): VU034842.D (-2012) (-)

200000

150000

100000

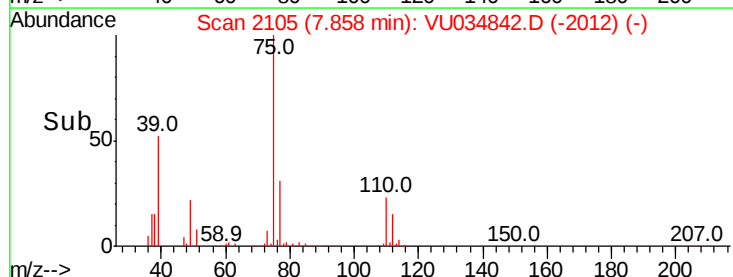
50000

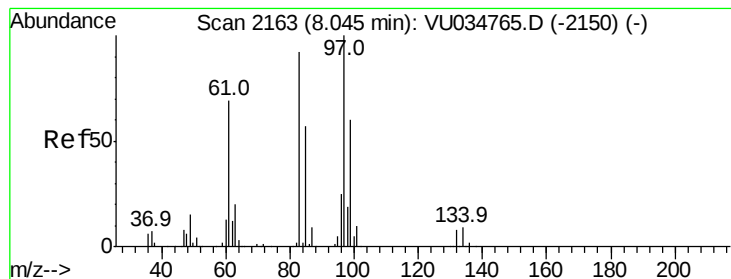
0

7.80 7.85 7.90

7.86

Time-->





#45

1,1,2-Trichloroethane

Concen: 51.632 ug/L

RT: 8.04 min Scan# 2163

Delta R.T. -0.00 min

Lab File: VU034842.D

Acq: 26 Sep 2019 13:43

Instrument :

MSVOA_U

ClientSampleId :

Tot Ion: 97 Resp: 216750

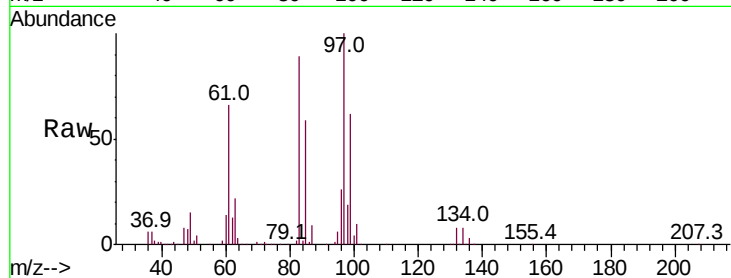
Ion	Ratio	Lower	Upper
97	100		
99	62.4	43.6	81.0
83	89.5	66.9	124.3
85	59.5	43.3	80.3

97 100

99 62.4 43.6 81.0

83 89.5 66.9 124.3

85 59.5 43.3 80.3



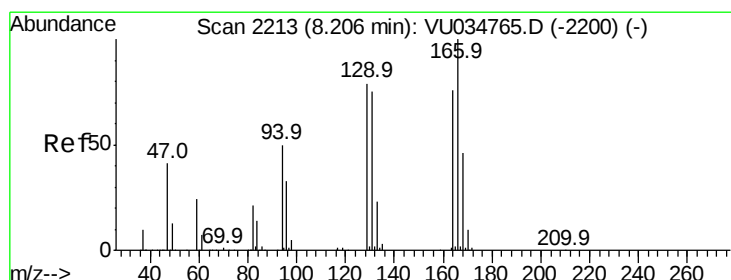
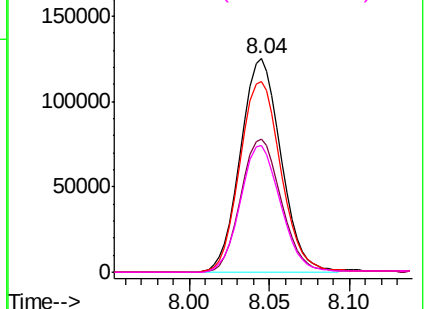
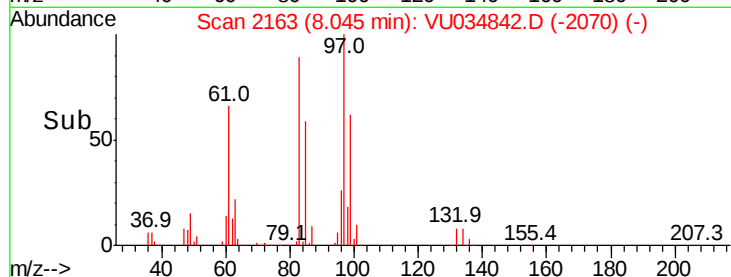
Abundance

Ion 97.00 (96.70 to 97.70): VU034765.D (-2150) (-)

Ion 99.00 (98.70 to 99.70): VU034765.D (-2150) (-)

Ion 83.00 (82.70 to 83.70): VU034765.D (-2150) (-)

Ion 85.00 (84.70 to 85.70): VU034765.D (-2150) (-)



#46

Tetrachloroethene

Concen: 54.611 ug/L

RT: 8.21 min Scan# 2213

Delta R.T. -0.00 min

Lab File: VU034842.D

Acq: 26 Sep 2019 13:43

Tgt Ion:164 Resp: 166978

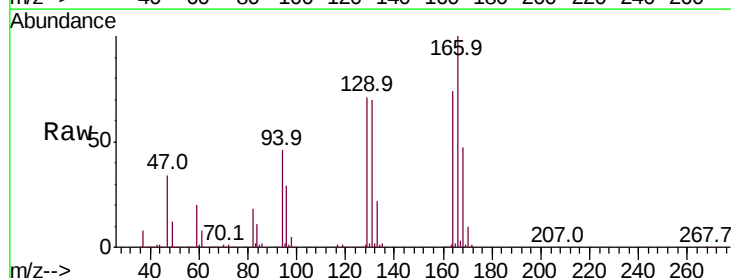
Ion	Ratio	Lower	Upper
164	100		
129	96.4	71.9	133.5
131	95.0	66.3	123.1
166	135.4	93.4	173.6

164 100

129 96.4 71.9 133.5

131 95.0 66.3 123.1

166 135.4 93.4 173.6



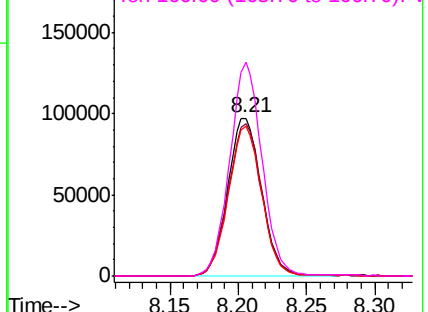
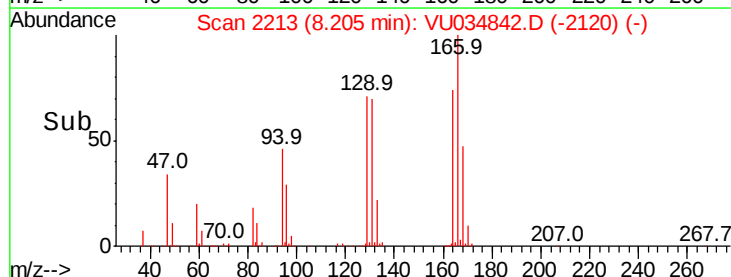
Abundance

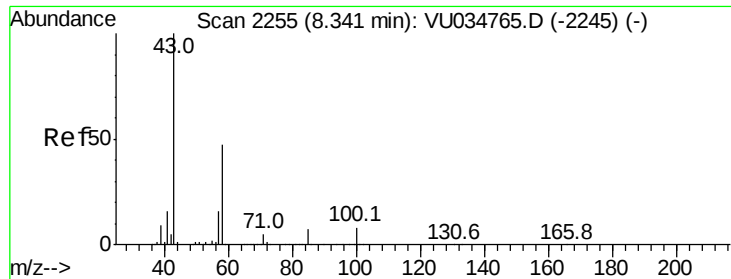
Ion 164.00 (163.70 to 164.70): VU034765.D (-2200) (-)

Ion 129.00 (128.70 to 129.70): VU034765.D (-2200) (-)

Ion 131.00 (130.70 to 131.70): VU034765.D (-2200) (-)

Ion 166.00 (165.70 to 166.70): VU034765.D (-2200) (-)

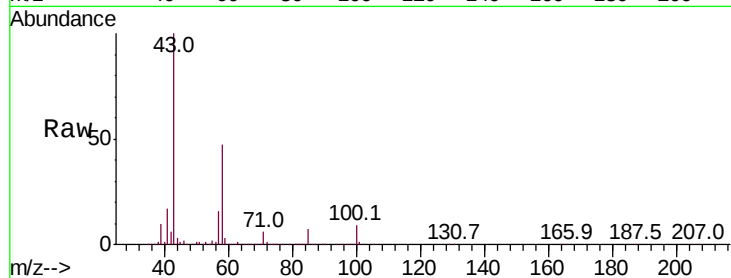




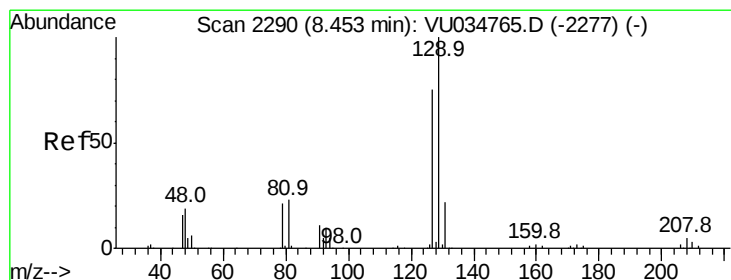
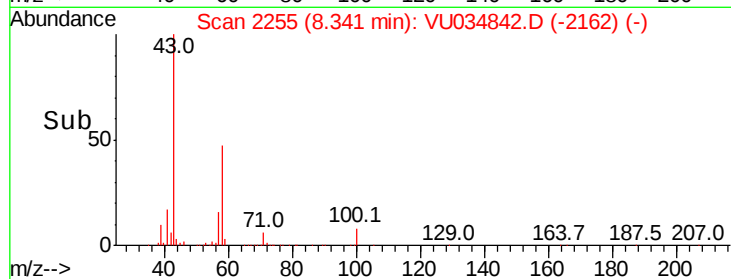
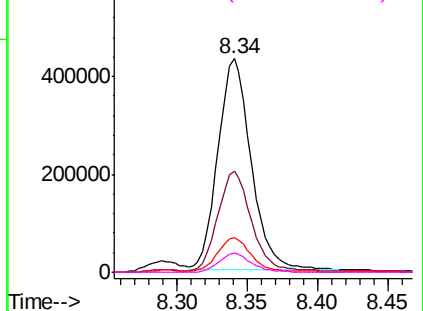
#48
2-Hexanone
Concen: 90.582 ug/L
RT: 8.34 min Scan# 2255
Delta R.T. -0.00 min
Lab File: VU034842.D
Acq: 26 Sep 2019 13:43

Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 43 Resp: 707869
Ion Ratio Lower Upper
43 100
58 48.7 35.3 52.9
57 15.8 12.1 18.1
100 8.9 6.2 9.4

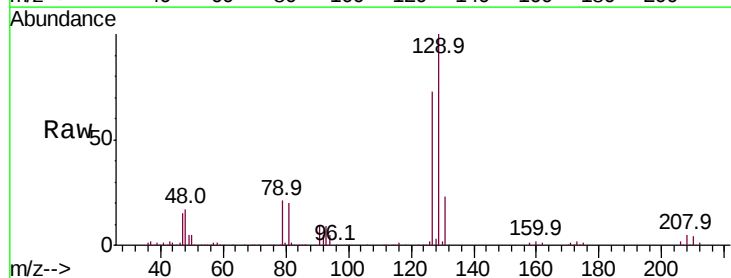


Abundance Ion 43.00 (42.70 to 43.70): VU0
Ion 58.00 (57.70 to 58.70): VU0
Ion 57.00 (56.70 to 57.70): VU0
Ion 100.00 (99.70 to 100.70): VU0

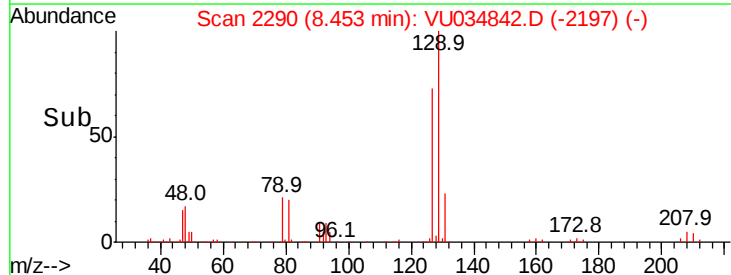
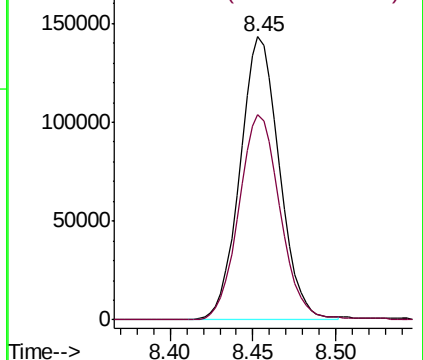


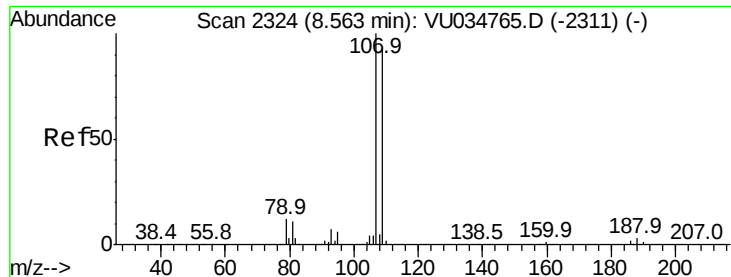
#49
Dibromochloromethane
Concen: 50.631 ug/L
RT: 8.45 min Scan# 2290
Delta R.T. -0.00 min
Lab File: VU034842.D
Acq: 26 Sep 2019 13:43

Tgt Ion: 129 Resp: 236913
Ion Ratio Lower Upper
129 100
127 72.6 55.5 103.1



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

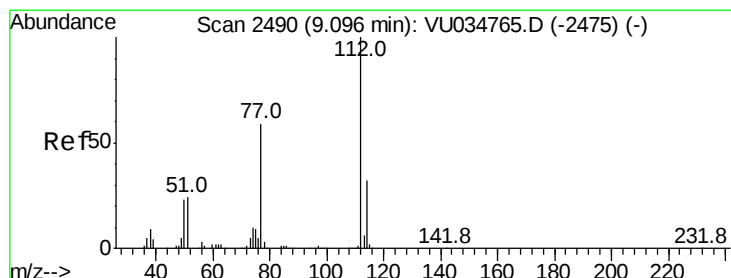
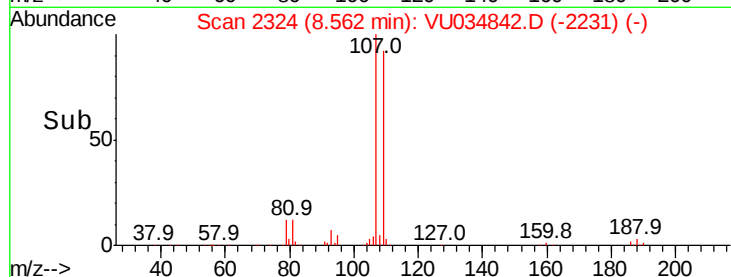
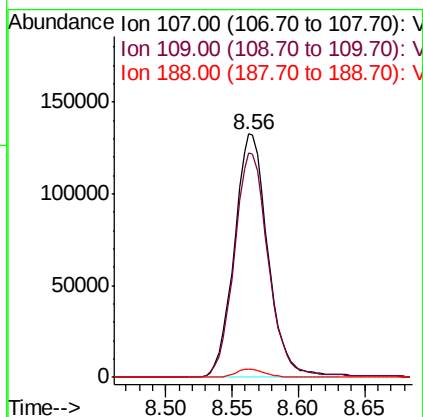
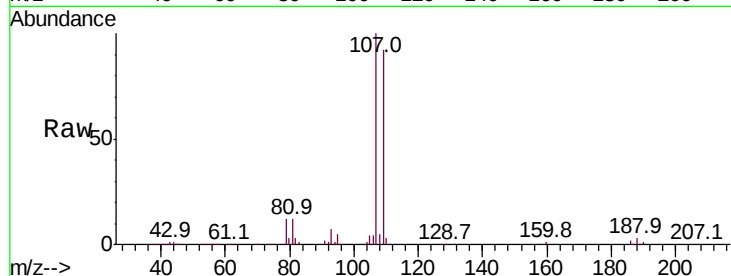




#50
1,2-Dibromoethane
Concen: 51.782 ug/L
RT: 8.56 min Scan# 2324
Delta R.T. -0.00 min
Lab File: VU034842.D
Acq: 26 Sep 2019 13:43

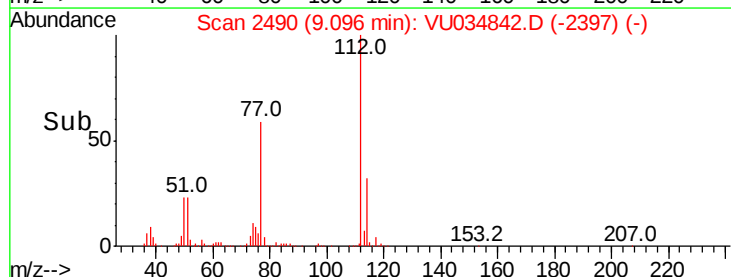
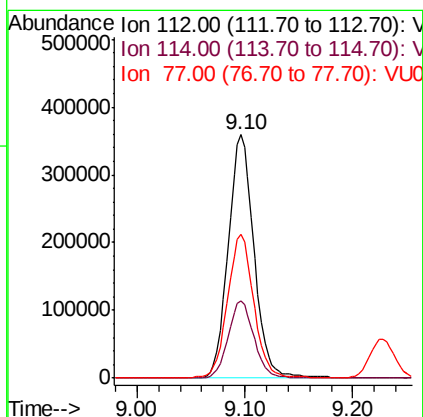
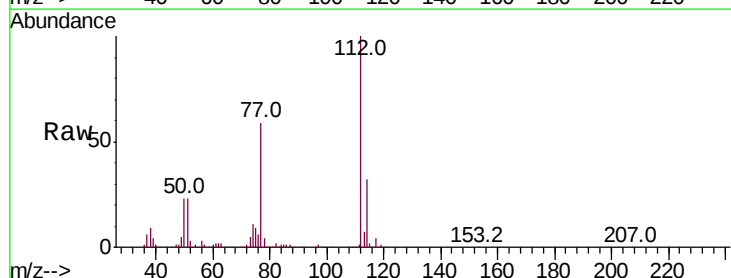
Instrument :
MSVOA_U
ClientSampleId :

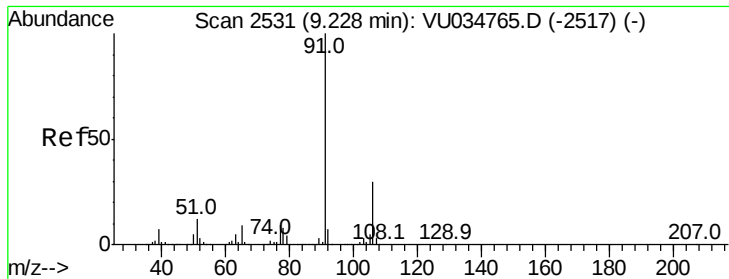
Tot Ion	Ratio	Lower	Upper
107	100		
109	92.2	65.5	121.6
188	3.4	2.7	4.1



#51
Chlorobenzene
Concen: 51.835 ug/L
RT: 9.10 min Scan# 2490
Delta R.T. -0.00 min
Lab File: VU034842.D
Acq: 26 Sep 2019 13:43

Tgt Ion	Ratio	Lower	Upper
112	100		
114	31.5	22.8	42.4
77	59.2	51.5	77.3





#52

Ethylbenzene

Concen: 49.241 ug/L

RT: 9.23 min Scan# 2531

Delta R.T. -0.00 min

Lab File: VU034842.D

Acq: 26 Sep 2019 13:43

Instrument :

MSVOA_U

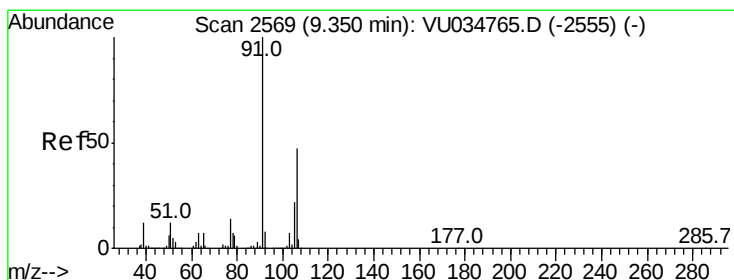
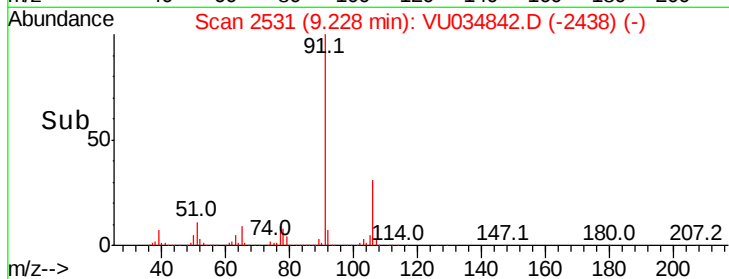
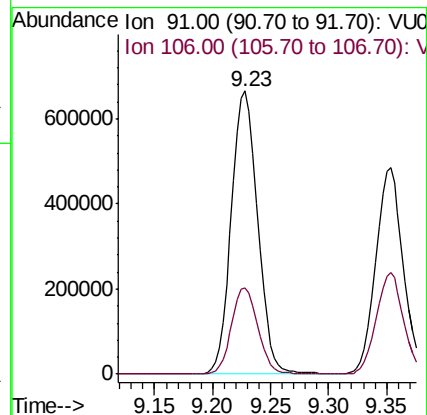
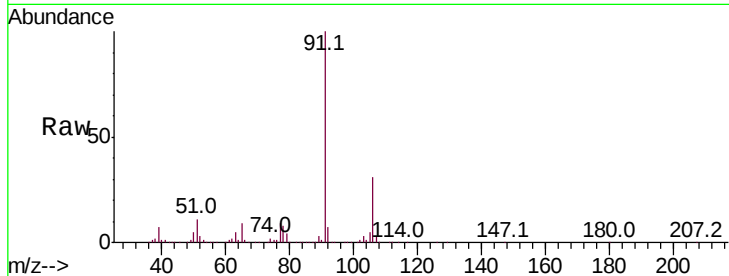
ClientSampleId :

Tot Ion: 91 Resp: 1054737

Ion Ratio Lower Upper

91 100

106 30.6 20.6 38.4



#53

m,p-Xylene

Concen: 51.759 ug/L

RT: 9.35 min Scan# 2570

Delta R.T. -0.00 min

Lab File: VU034842.D

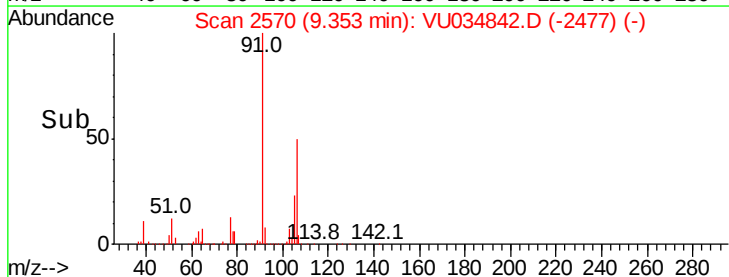
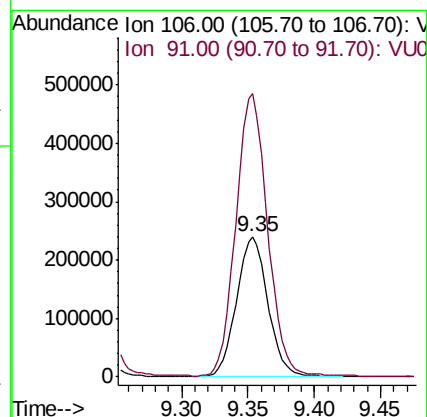
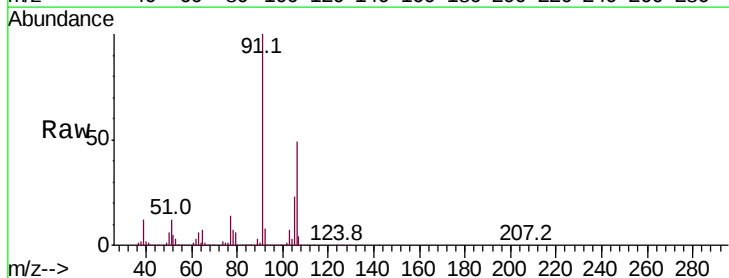
Acq: 26 Sep 2019 13:43

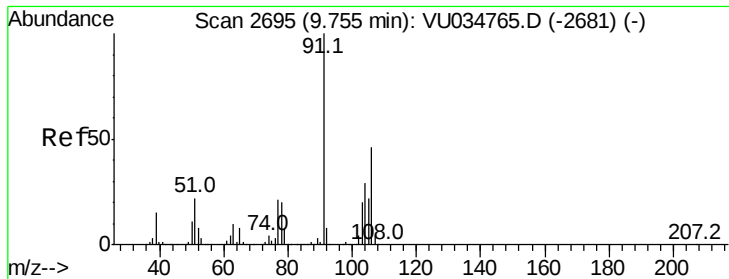
Tgt Ion: 106 Resp: 392684

Ion Ratio Lower Upper

106 100

91 202.1 146.9 272.7





#54

o-xylene

Concen: 51.277 ug/L

RT: 9.76 min Scan# 2695

Delta R.T. -0.00 min

Lab File: VU034842.D

Acq: 26 Sep 2019 13:43

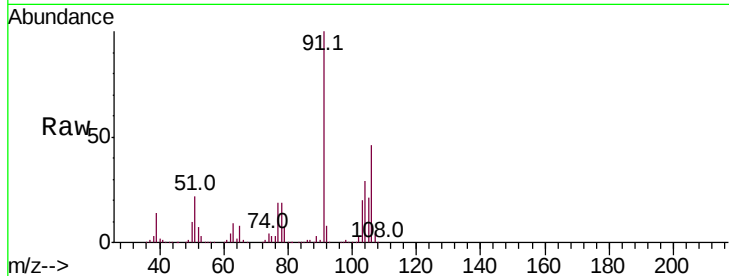
Instrument :
MSVOA_U
ClientSampleId :

Tot Ion:106 Resp: 384787

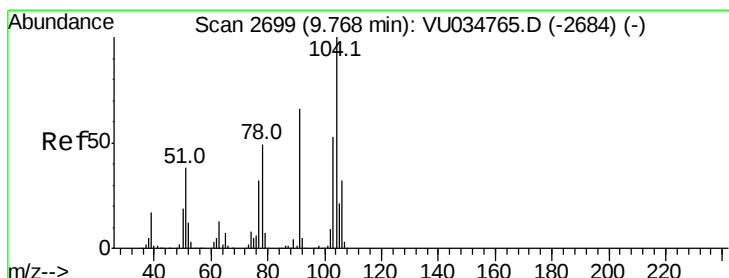
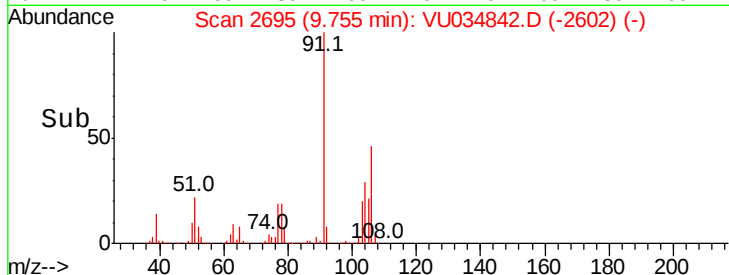
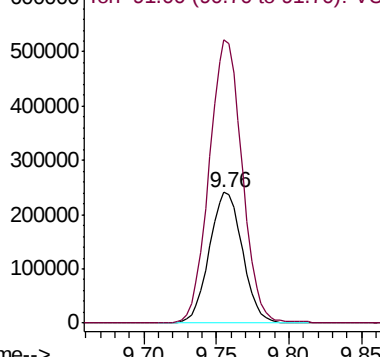
Ion Ratio Lower Upper

106 100

91 216.2 155.6 289.0



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



#55

Styrene

Concen: 52.011 ug/L

RT: 9.77 min Scan# 2699

Delta R.T. -0.00 min

Lab File: VU034842.D

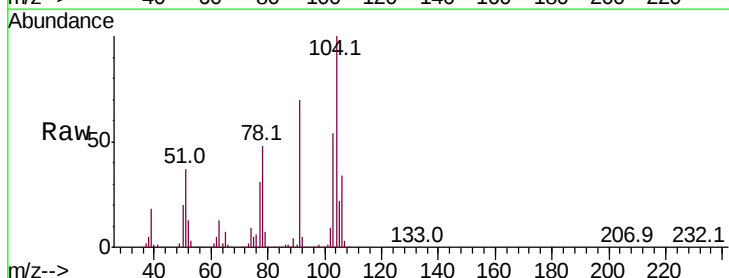
Acq: 26 Sep 2019 13:43

Tgt Ion:104 Resp: 660647

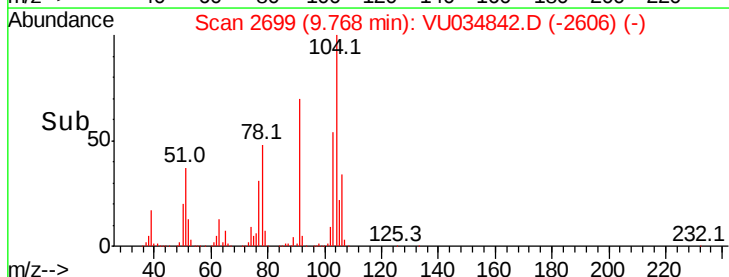
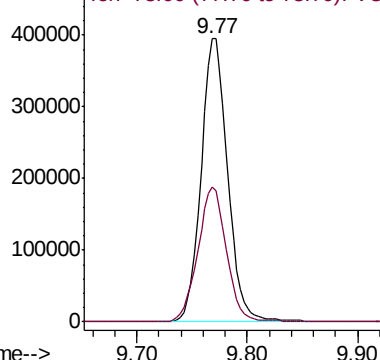
Ion Ratio Lower Upper

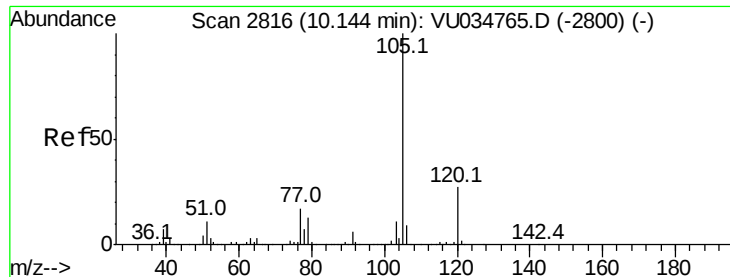
104 100

78 47.5 35.1 65.3



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





#56

Isopropylbenzene

Concen: 49.492 ug/L

RT: 10.14 min Scan# 2816

Delta R.T. -0.00 min

Lab File: VU034842.D

Acq: 26 Sep 2019 13:43

Instrument :

MSVOA_U

ClientSampleId :

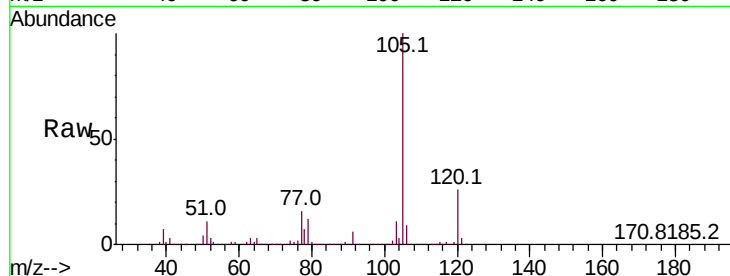
Tot Ion:105 Resp: 1001386

Ion Ratio Lower Upper

105 100

120 26.0 20.4 30.6

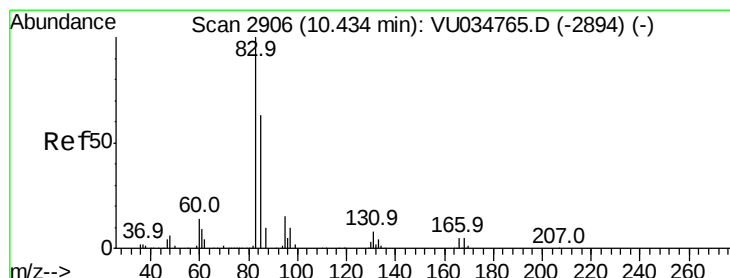
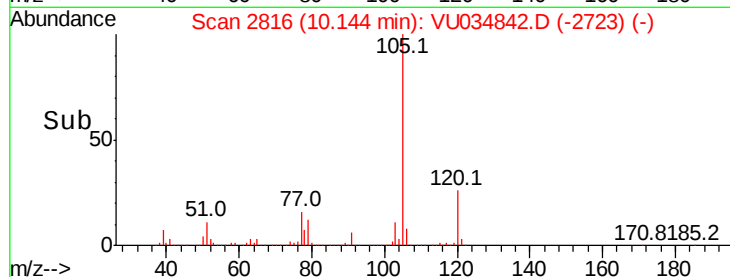
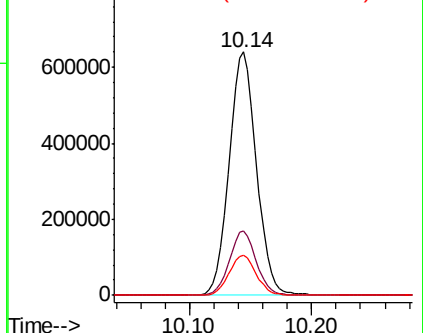
77 16.5 14.2 21.4



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: 49.243 ug/L

RT: 10.43 min Scan# 2906

Delta R.T. -0.00 min

Lab File: VU034842.D

Acq: 26 Sep 2019 13:43

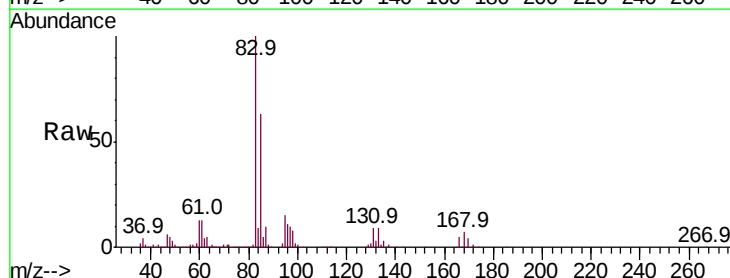
Tgt Ion: 83 Resp: 397047

Ion Ratio Lower Upper

83 100

85 63.4 44.6 82.8

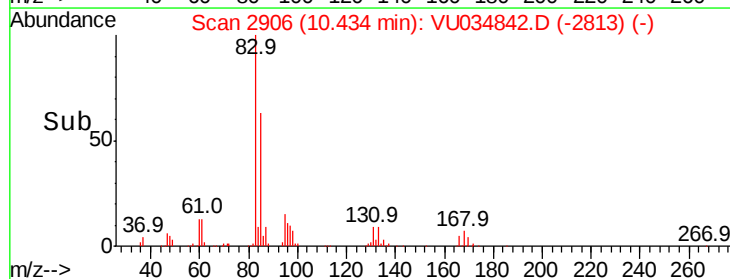
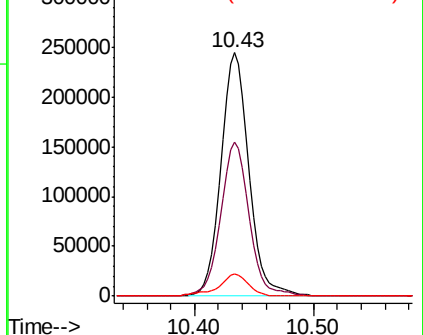
131 9.2 6.6 10.0

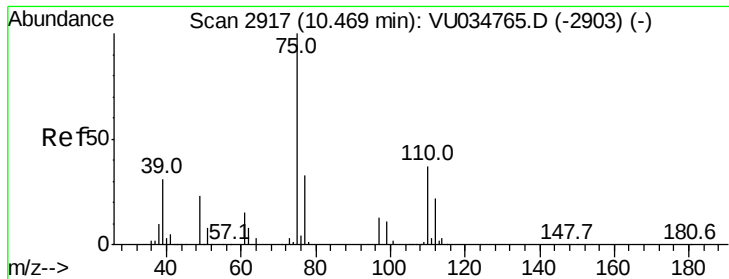


Abundance Ion 83.00 (82.70 to 83.70): V

Ion 85.00 (84.70 to 85.70): V

Ion 131.00 (130.70 to 131.70): V





#59

1,2,3-Trichloropropane

Concen: 46.383 ug/L

RT: 10.47 min Scan# 2917

Delta R.T. -0.00 min

Lab File: VU034842.D

Acq: 26 Sep 2019 13:43

Instrument :

MSVOA_U

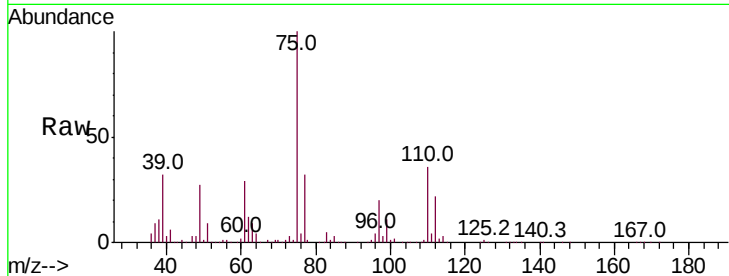
ClientSampleId :

Tot Ion: 75 Resp: 303609

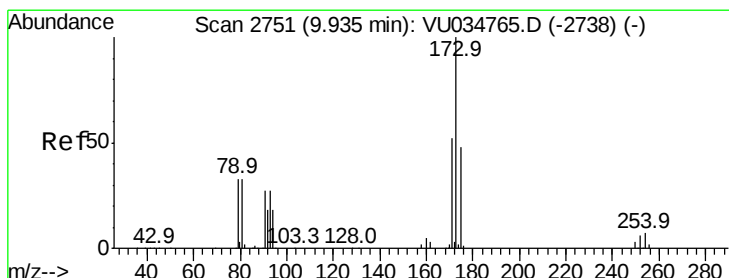
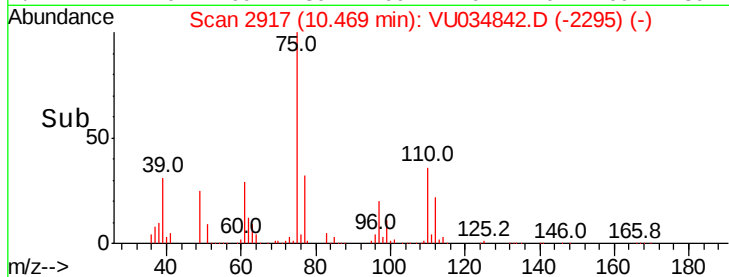
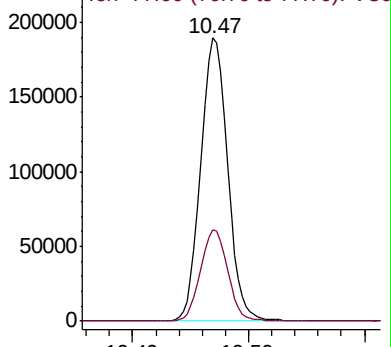
Ion Ratio Lower Upper

75 100

77 32.3 24.6 37.0



Abundance Ion 75.00 (74.70 to 75.70): VU034765.D (-2903) (-)



#61

Bromoform

Concen: 48.389 ug/L

RT: 9.94 min Scan# 2751

Delta R.T. -0.00 min

Lab File: VU034842.D

Acq: 26 Sep 2019 13:43

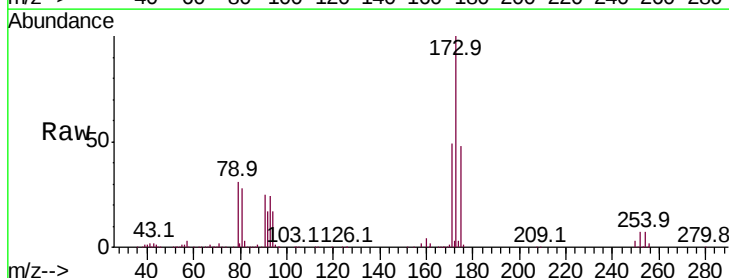
Tgt Ion:173 Resp: 170133

Ion Ratio Lower Upper

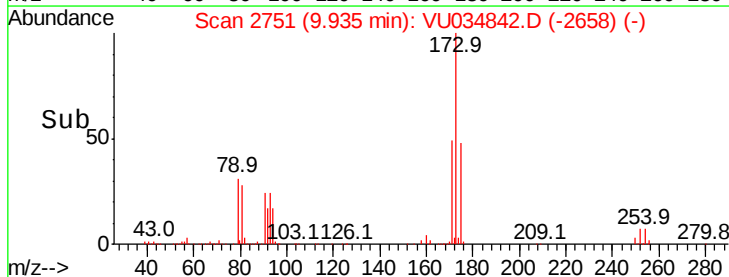
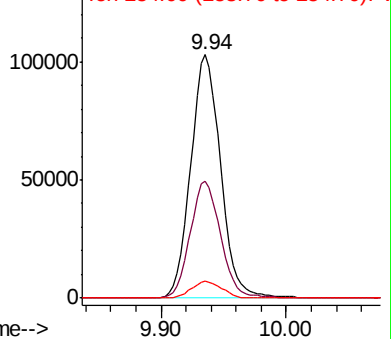
173 100

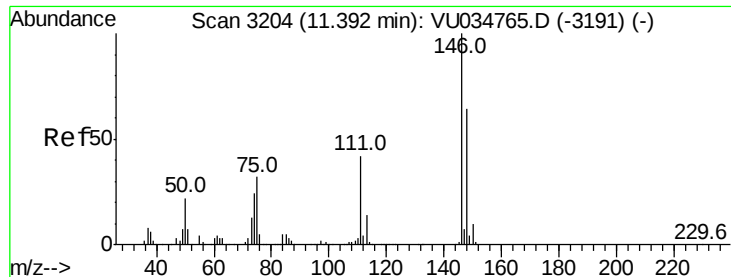
175 48.8 38.8 58.2

254 6.9 5.3 7.9



Abundance Ion 173.00 (172.70 to 173.70): VU034765.D (-2738) (-)





#62

1,3-Dichlorobenzene

Concen: 50.769 ug/L

RT: 11.39 min Scan# 3204

Delta R.T. -0.00 min

Lab File: VU034842.D

Acq: 26 Sep 2019 13:43

Instrument :

MSVOA_U

ClientSampleId :

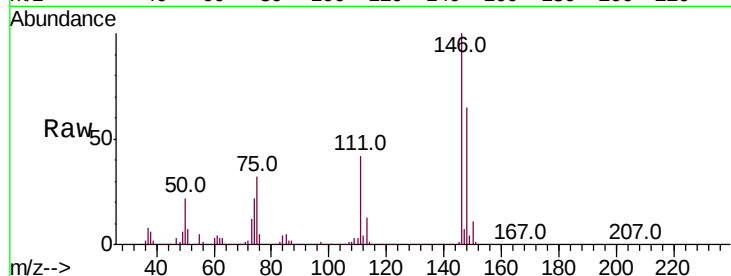
Tot Ion:146 Resp: 448973

Ion Ratio Lower Upper

146 100

111 41.8 30.4 56.5

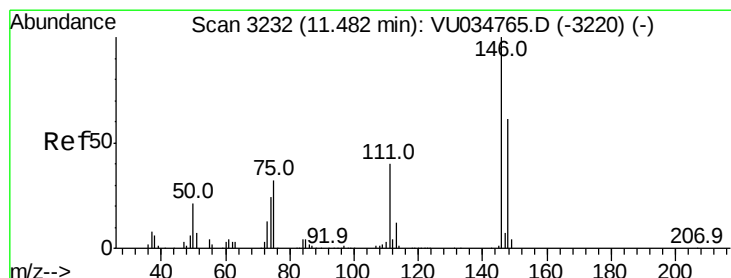
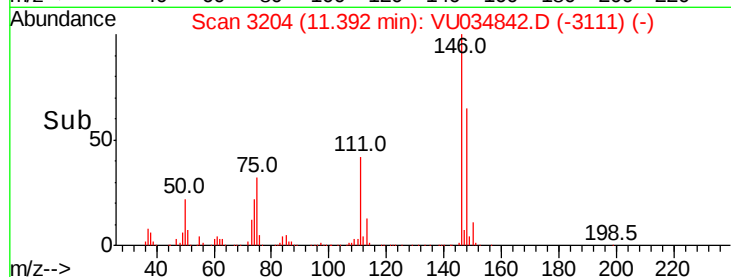
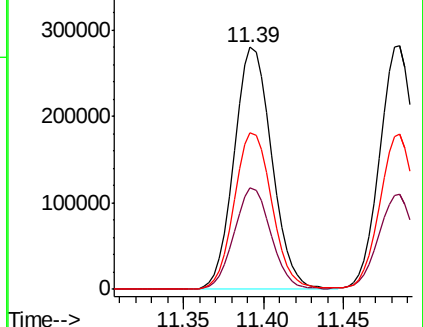
148 64.7 46.1 85.7



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#63

1,4-Dichlorobenzene

Concen: 50.266 ug/L

RT: 11.49 min Scan# 3233

Delta R.T. 0.00 min

Lab File: VU034842.D

Acq: 26 Sep 2019 13:43

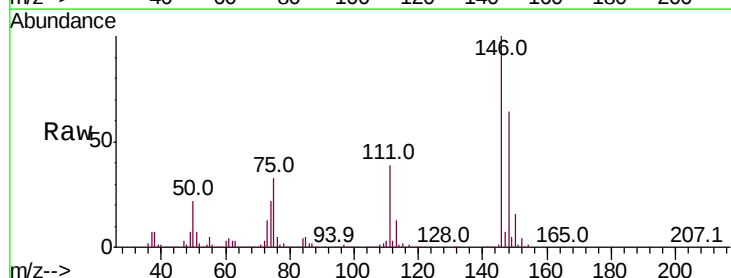
Tgt Ion:146 Resp: 452833

Ion Ratio Lower Upper

146 100

111 38.8 29.5 54.9

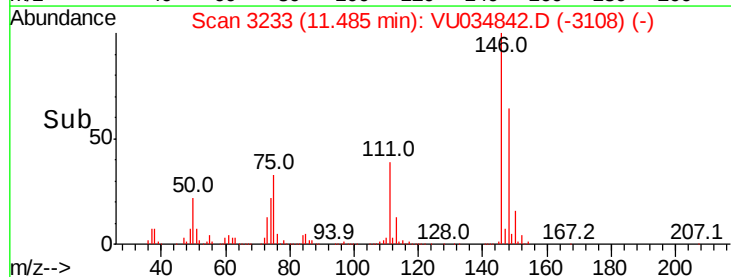
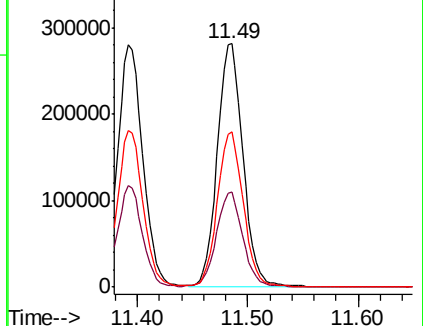
148 63.6 44.4 82.4

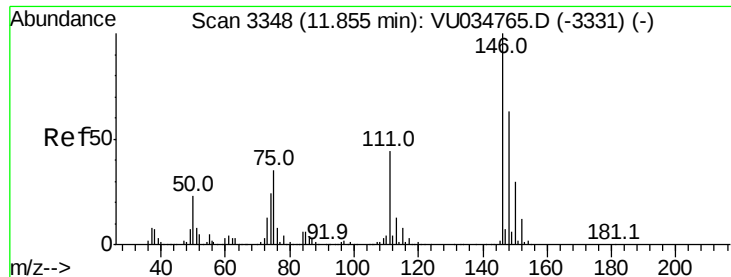


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V





#65

1,2-Dichlorobenzene

Concen: 50.172 ug/L

RT: 11.85 min Scan# 3348

Delta R.T. -0.00 min

Lab File: VU034842.D

Acq: 26 Sep 2019 13:43

Instrument :

MSVOA_U

ClientSampleId :

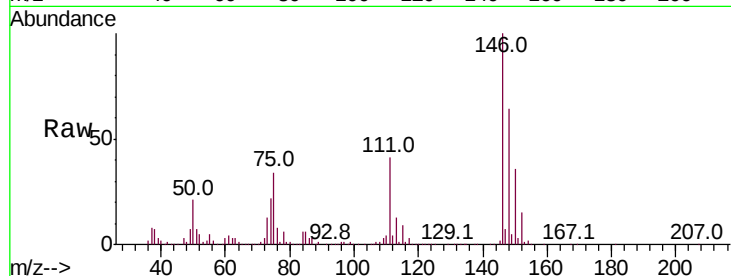
Tot Ion:146 Resp: 448316

Ion Ratio Lower Upper

146 100

111 41.4 35.2 52.8

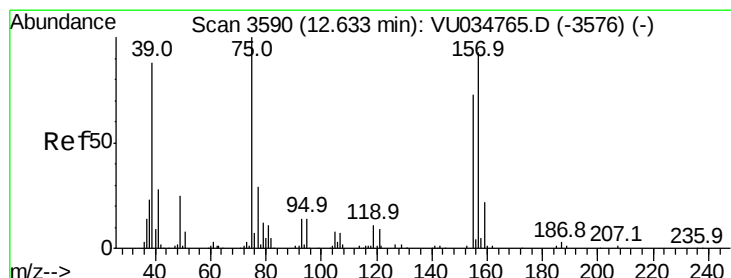
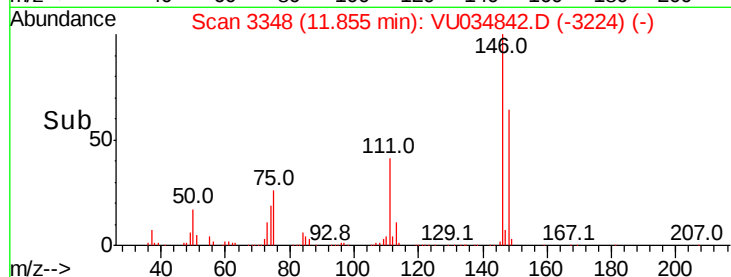
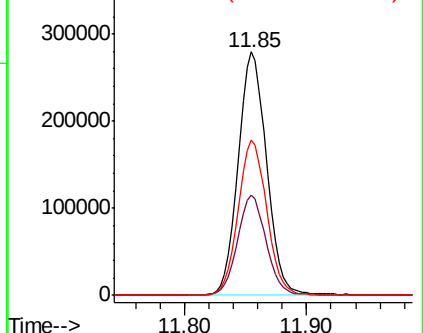
148 63.6 53.0 79.6



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



#66

1,2-Dibromo-3-chloropropane

Concen: 44.451 ug/L

RT: 12.63 min Scan# 3590

Delta R.T. -0.00 min

Lab File: VU034842.D

Acq: 26 Sep 2019 13:43

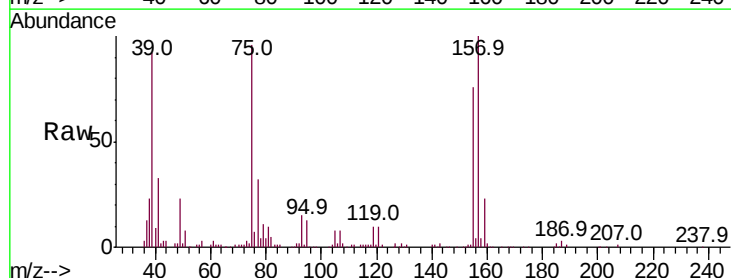
Tgt Ion: 75 Resp: 84425

Ion Ratio Lower Upper

75 100

155 80.0 54.7 82.1

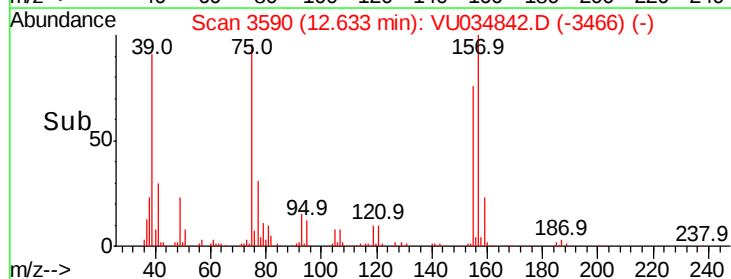
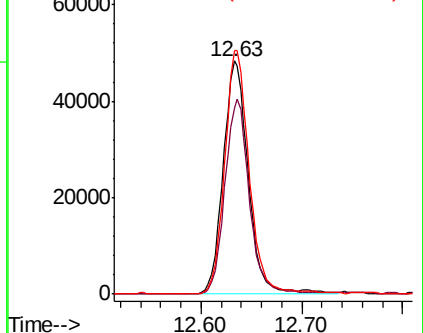
157 104.6 69.9 104.9

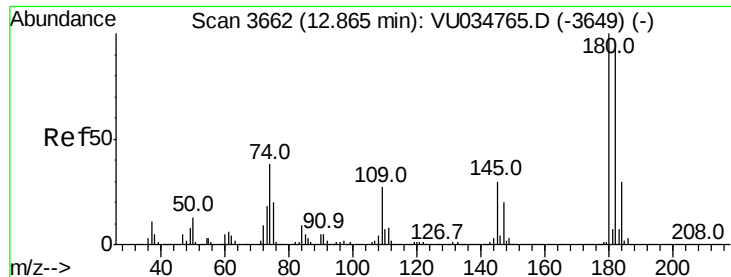


Abundance Ion 75.00 (74.70 to 75.70): VU0

Ion 155.00 (154.70 to 155.70): V

Ion 157.00 (156.70 to 157.70): V

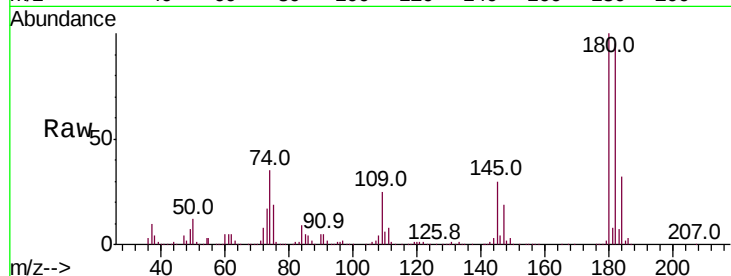




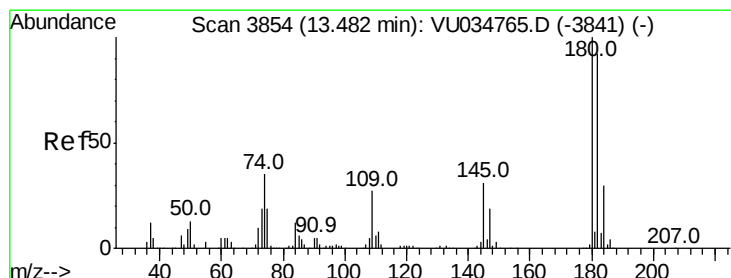
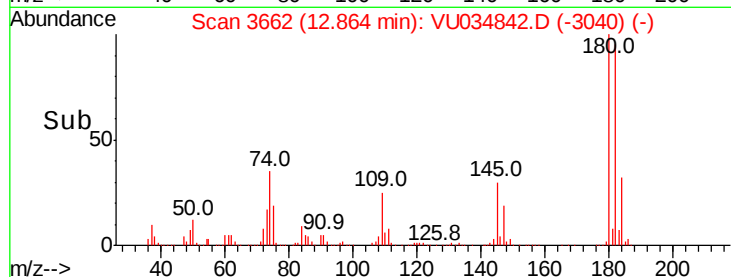
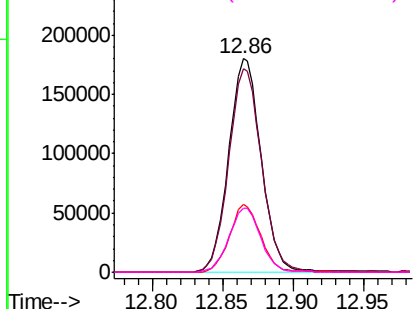
#67
 1,3,5-Trichlorobenzene
 Concen: 49.002 ug/L
 RT: 12.86 min Scan# 3662
 Delta R.T. -0.00 min
 Lab File: VU034842.D
 Acq: 26 Sep 2019 13:43

Instrument :
 MSVOA_U
 ClientSampled :

Tot Ion:180	Resp:	290351
Ion	Ratio	Lower Upper
180	100	
182	96.3	79.2 118.8
184	30.2	24.6 36.8
145	29.5	24.9 37.3

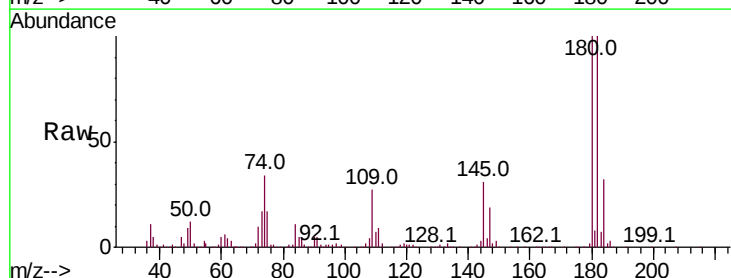


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 184.00 (183.70 to 184.70): V
 Ion 145.00 (144.70 to 145.70): V

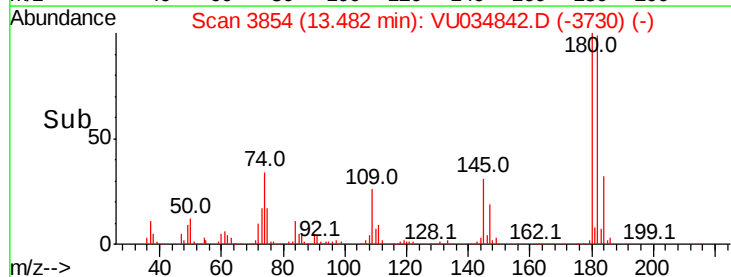
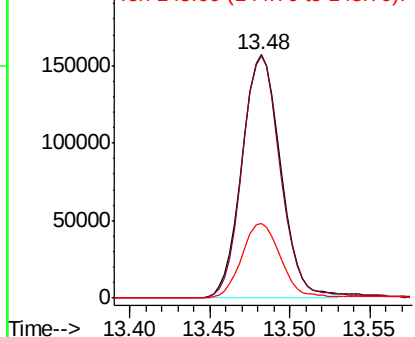


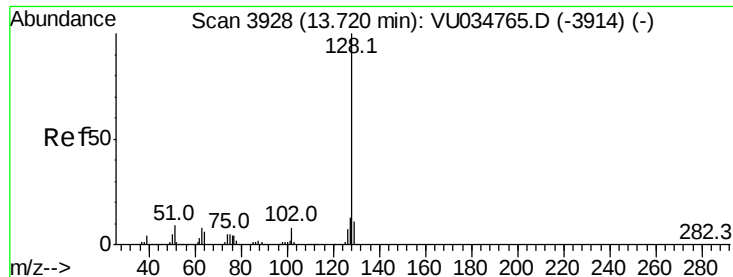
#68
 1,2,4-trichlorobenzene
 Concen: 55.773 ug/L
 RT: 13.48 min Scan# 3854
 Delta R.T. -0.00 min
 Lab File: VU034842.D
 Acq: 26 Sep 2019 13:43

Tgt Ion:180	Resp:	259879
Ion	Ratio	Lower Upper
180	100	
182	98.5	75.7 113.5
145	30.7	25.2 37.8



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: 61.372 ug/L

RT: 13.72 min Scan# 3928

Delta R.T. -0.00 min

Lab File: VU034842.D

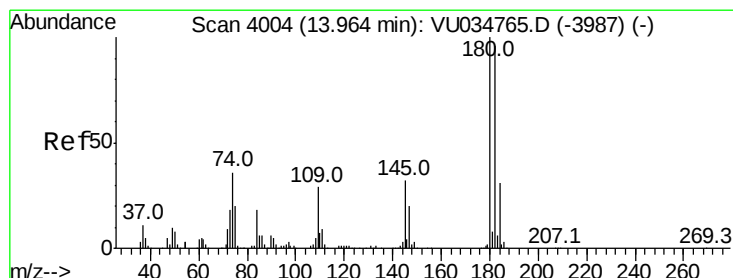
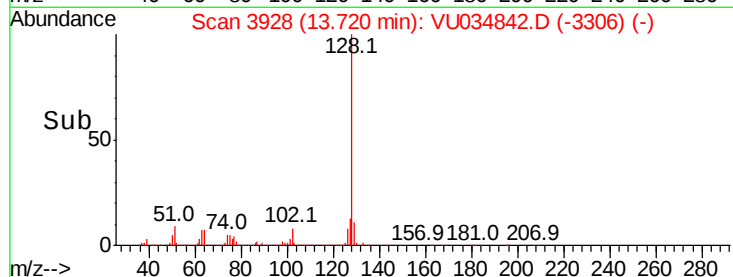
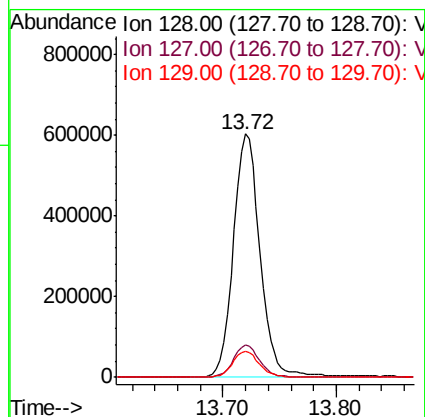
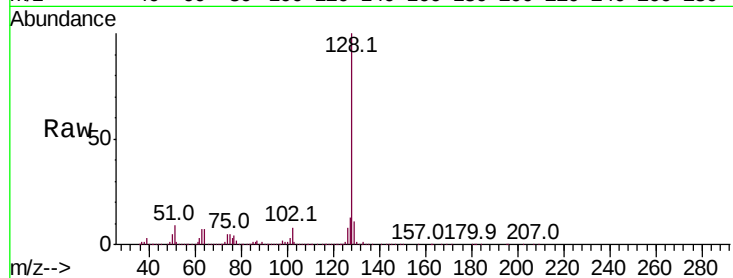
Acq: 26 Sep 2019 13:43

Instrument :

MSVOA_U

ClientSampleId :

Tot Ion:	128	Resp:	989975
Ion	Ratio	Lower	Upper
128	100		
127	13.1	10.8	16.2
129	10.7	8.6	12.8



#70

1,2,3-Trichlorobenzene

Concen: 55.400 ug/L

RT: 13.96 min Scan# 4004

Delta R.T. -0.00 min

Lab File: VU034842.D

Acq: 26 Sep 2019 13:43

Tgt Ion:	180	Resp:	265613
Ion	Ratio	Lower	Upper
180	100		
182	95.1	79.2	118.8
145	34.1	26.0	39.0

